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January 15, 2015

Mr. John Morris, P.G.
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 2014 Sampling Event
Hardee County Landfill
WACS Facility ID No. SWD/25/40612
Permit No. 38414-016-SO/01**

Dear Mr. Morris:

On behalf of the Hardee County Solid Waste Department, Atkins presents this review of the results of the second half of 2014 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 early 2014, the County began 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. Collection of leachate samples is optional, at the discretion of the County; the leachate sampling results are no longer being reported to FDEP.

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 2014 SAMPLING EVENT

The second half 2014 sampling event was conducted on December 22 and 23, 2014. Groundwater and surface water samples were collected during this event. The groundwater and surface water samples were collected in general accordance with the Florida Department of Environmental Protection (FDEP) Standard Operating Procedure for Field Activities (SOP 001/01). Sample collection was performed by Atkins personnel, and analysis was performed by Flowers Chemical Laboratories, Inc. (FCL). FCL is a NELAC-certified laboratory. A FDEP Ground Water Monitoring Report form for the sampling event is provided in **Attachment A**.

Sample Collection Methodology

Prior to sampling the monitoring wells, each 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 (except that MW-6 was not accessible at the time, and the casing of P-7 had been cut off). 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 carried to FCL for analysis of the analytes listed in the applicable sections of the facility's operation permit.

SECOND HALF 2014 SAMPLING EVENT RESULTS

Groundwater Flow Pattern

Depth to groundwater measurements were collected at the eight monitoring wells and at 12 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**. A piece of the casing on P-7 was cut off and MW-6 was not accessible, so those points were not contoured 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 water table gradient measured approximately 0.0013 feet per foot beneath the site (as measured between well MW-1 and well MW-10R). Water level elevations were also measured 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, but no organic analytes detected, in the groundwater samples collected and analyzed during this sampling event. The inorganic analyte detections included all of those which are typically part of the analytical program except antimony, beryllium, cadmium, copper, lead, mercury, selenium, silver, and thallium. At least one inorganic analyte was detected at every well in the monitoring network.

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

- pH - The standard for pH is any value within the range of 6.5 to 8.5. The pH values at all except two of the wells (MW-2 and MW-12R) were below 6.5, and the pH measured as low as 4.23 at well MW-1. The pH values at both of the background monitoring wells, MW-1 and MW-4, were lower than the standard range.
- Iron - The standard for iron is 0.3 milligrams per liter (mg/L). The iron concentration in the samples collected at all wells except MW-11 and MW-12R exceeded the standard. The iron concentrations at both of the background wells were higher than the standard.
- Arsenic – Monitoring at this site has been closely tracking arsenic concentrations in MW-4. The standard for arsenic is 0.01 mg/L. In December 2014, the arsenic concentration in MW-4 slightly exceeded the standard, at a value of 0.0147 mg/L. In June 2014, the arsenic concentration in MW-4 also slightly exceeded the standard, at a value of 0.0119 mg/L. The standard for arsenic was also slightly exceeded at MW-4 during both sampling events in 2013. MW-4 is designated as a background well.

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

Surface Water Analytical Results

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

None of the laboratory parameters were out of compliance with their surface water criteria. Toluene was detected at a concentration of 1.40 ug/L, which was well below the standard of 480 ug/L. The Dissolved Oxygen field measurement was not in compliance with the surface water criteria. Dissolved Oxygen was measured at a concentration of 1.50 mg/L, which is less than the criteria of greater than 5 mg/l.

SUMMARY AND CONCLUSIONS

The results of the second half 2014 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, and only one organic analyte detection in the surface water.



There were three analytes detected in the groundwater that did not comply with their regulatory standards: arsenic, pH, and iron were detected in the groundwater at concentrations in excess of the regulatory criteria. It should be noted that the primary parameters that were not in compliance with standards in the groundwater (pH and iron) were also not in compliance with standards in the background monitoring wells. The arsenic exceedance occurred only in the background well (MW-4). 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. Due to regulatory changes implemented in August 2012, the Hardee County Landfill facility is no longer required by the FDEP to sample the leachate. Continued sampling of leachate is at the discretion of the County. If you have any questions regarding the information presented in this report, please call me at (813) 281-8377.

Sincerely,

A handwritten signature in black ink, appearing to read "Bradley J. Bayne".

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

CC: Ms. Teresa Carver, Hardee County Solid Waste Department, 685 Airport Road,
Wauchula, FL 33873 (2 copies)
File 100043233

TABLES

Table 1
Groundwater Elevation Data
Hardee County Landfill
Second Half 2014

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	5.64	82.33
MW-2	85.86	83.75	10.50	4	5.89	79.97
MW-4	87.16	84.09	18.90	2	5.48	81.68
MW-10R	88.56	85.49	15.12	2	8.00	80.56
MW-11	88.11	85.17	13.90	2	7.73	80.38
MW-12R	89.00	85.71	23.25	2	8.41	80.59
MW-13	88.88	NM	23.00	2	7.80	81.08
MW-14	88.16	NM	23.00	2	7.29	80.87
Piezometers						
MW-6	88.25	85.06	NA	2	NM*	NM*
MW-7	87.88	84.98	NA	2	7.52	80.36
P-7	84.47	82.41	NA	2	NM*	NM*
P-8	85.32	83.25	NA	2	5.80	79.52
P-11	88.69	86.16	NA	2	7.51	81.18
P-13	87.96	87.98	NA	2	7.63	80.33
P-14	87.31	84.05	NA	2	7.43	79.88
P-17	88.82	85.88	NA	2	5.60	83.22
P-18	88.74	84.37	NA	2	6.82	81.92
P-19	86.73	84.14	NA	2	4.53	82.20
P-20	87.6	84.68	NA	2	5.63	81.97
P-21	86.63	83.57	NA	2	6.24	80.39
P-22	87.04	84.09	NA	2	6.61	80.43
P-23	86.45	83.71	NA	2	6.69	79.76
Staff Gauges						
SG-1	80.51#	NA	NA	NA	+2.2	82.71
SG-2	78.57#	NA	NA	NA	+4.6	83.17

* = casing cut off or not accessible # = lag bolt/zero elevation

NM = Not measured

Table 2
Groundwater Analytical Summary
Hardee County Landfill
Second Half 2014

Analyte	Monitoring Well:		MW-1	MW-2	MW-4	MW-10R	MW-11	MW-12R	MW-13	MW-14
	Sample Date:		12/22/2014	12/22/2014	12/22/2014	12/23/2014	12/23/2014	12/23/2014	12/23/2014	12/22/2014
	Standard ⁽¹⁾	Units								
Field Measurements										
Groundwater Elevation		ft	82.33	79.97	81.68	80.56	80.38	80.59	81.08	80.87
Temperature		deg. C	22.39	22.05	22.82	22.97	23.37	21.77	22.2	22.93
pH	6.5-8.5	STD	4.23	6.78	6.10	5.95	4.40	6.69	5.02	5.55
Conductivity		umhos/cm	171	393	394	363	54	390	256	395
Dissolved Oxygen (DO)		mg/l	0.62	0.88	0.55	0.21	1.60	1.50	0.59	1.47
Turbidity		NTU	10.0	17.5	5.00	12.0	28	1.00	2.50	3.40
Inorganics (Appendix 1 parameters only)										
Nitrate (as N)	10	mg/l	0.0901	0.531	0.0100 U	0.0242	0.0100 U	0.772	1.40	2.32
TDS	500	mg/l	246	258	398	236	92.0	266	170	266
Chloride	250	mg/l	23.6	8.22	15.9	14.4	4.86 I	4.00 U	30.0	25.0
Antimony	0.006	mg/l	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U
Arsenic	0.01	mg/l	0.0051	0.00100 U	0.0147	0.0043	0.00100 U	0.00100 U	0.00100 U	0.00100 U
Barium	2	mg/l	0.0114	0.0151	0.0129	0.02	0.0144	0.00200 U	0.0157	0.0184
Beryllium	0.004	mg/l	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U
Cadmium	0.005	mg/l	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U
Chromium	0.1	mg/l	0.00100 U	0.00100 U	0.00870	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U
Cobalt		mg/l	0.00110 I	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U
Copper	1	mg/l	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U
Lead	0.015	mg/l	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U
Mercury	0.002	mg/l	0.0000200 U	0.0000200 U	0.0000200 U	0.0000200 U	0.0000200 U	0.0000200 U	0.0000200 U	0.0000200 U
Nickel	0.1	mg/l	0.0052	0.000140 I	0.00130 I	0.00190 I	0.00100 U	0.00180 I	0.0023	0.00200
Selenium	0.05	mg/l	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U
Silver	0.1	mg/l	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U
Thallium	0.002	mg/l	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U
Vanadium		mg/l	0.0199	0.0026	0.0188	0.0034	0.0059	0.0106	0.0033	0.00310
Zinc	5	mg/l	0.0148 I	0.0107 I	0.0110 I	0.0118 I	0.029	0.0309	0.0161 I	0.0118 I
Ammonia (as N)	2.8	mg/l	0.262	0.267	0.251	0.63	0.0100 U	0.16	0.0100 U	0.0427
Iron	0.3	mg/l	7.57	1.79	15.2	22.1	0.206	0.021	0.398	1.71
Sodium	160	mg/l	10.6	15.2	7.37	12.3	5.08	3.00	10.6	9.72
Organics										
1,1,1,2-Tetrachloroethane		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,1-Trichloroethane	200	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,2,2-Tetrachloroethane		ug/l	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
1,1,2-Trichloroethane	5	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1-Dichloroethane		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1-Dichloroethene	7	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichloroethane	3	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichloropropane	5	ug/l	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
2-Butanone (MEK)		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2-Hexanone		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Acetone	6300	ug/l	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Acrylonitrile		ug/l	0.300 U	0.300 U	0.300 U	0.300 U	0.300 U	0.300 U	0.300 U	0.300 U
Benzene	1	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromochloromethane		ug/l	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Bromodichloromethane		ug/l	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Bromoform		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromomethane		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Carbon Disulfide		ug/l	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Carbon Tetrachloride	3	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chlorobenzene		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chloroethane		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chloroform		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chloromethane		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Dibromochloromethane		ug/l	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Dibromomethane		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Ethylbenzene	700	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Methyl Iodide		ug/l	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Methyl isobutyl ketone		ug/l	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Methylene chloride		ug/l	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Para-dichlorobenzene	75	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Styrene	100	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Tetrachloroethene	3	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Toluene	1000	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Trichloroethene	3	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Trichlorofluoromethane		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Vinyl Acetate		ug/l	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Vinyl chloride	1	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Xylenes	10000	ug/l	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
cis-1,2-Dichloroethene	70	ug/l	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
cis-1,3-Dichloropropene		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
o-Dichlorobenzene	600	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
trans-1,2-Dichloroethene	100	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
trans-1,3-Dichloropropene		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
trans-1,4-Dichloro-2-butene		ug/l	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
1,2,3 - Trichloropropane		ug/l	0.0197 U	0.0190 U	0.0187 U	0.0192 U	0.0198 U	0.0193 U	0.0196 U	0.0190 U
1,2 - Dibromomethane (EDB)		ug/l	0.00986 U	0.00949 U	0.00934 U	0.00960 U	0.00989 U	0.00963 U	0.00980 U	0.00949 U
1,2 - dibromo-3-chloropropane		ug/l	0.0197 U	0.0190 U	0.0187 U	0.0192 U	0.0198 U	0.0193 U	0.0196 U	0.0190 U

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

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

Table 3
Surface Water Analytical Summary
Hardee County Landfill
Second Half 2014

Analyte	Location:		SW-2
	Sample Identifier:		SW-2
	Date of Test:		12/23/2014
	Standard(1)	Units	
Field Measurements			
Temperature		deg. C	18.2
pH	6-8.5	STD	6.23
Conductivity	1275	umhos/cm	494
Dissolved Oxygen (DO)	>5	mg/l	1.50
Turbidity	29+	NTU	3.50
Inorganics			
Nitrate (as N)		mg/L	0.0100 U
Nitrite (as N)		mg/L	0.0200 U
Total Dissolved Solids (TDS)		mg/L	344
Aluminum		mg/L	0.0186 I
Antimony	4.3	mg/L	0.00200 U
Arsenic	0.05	mg/L	0.00100 U
Barium		mg/L	0.0106
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	0.400
Lead	Note 5	mg/L	0.00100 U
Mercury	0.000012	mg/L	0.00000500 U
Nickel	Note 6	mg/L	0.00100 U
Selenium	5	mg/L	0.00200 U
Silver	0.00007	mg/L	0.000500 U
Thallium	0.0063	mg/L	0.00100 U
Vanadium	0.049	mg/L	0.00100 U
Zinc	Note 7	mg/L	0.0100 U
Fecal coliform	800	cfu/100mL	12.0
Total Hardness (as CaCO3)		mg/L	236
Total Organic Carbon (TOC)		mg/L	20.9
Total Nitrogen		mg/L	1.27
Total Phosphorus		mg/L	0.645
Total Suspended Solids (TSS)		mg/L	2.13
Un-ionized Ammonia	0.02	mg/L	0.00143
Biological Oxygen Demand (BOD)		mg/l	2.29
Chemical Oxygen Demand (COD)		mg/L	61.5
Chlorophyll A		mg/m3	1.58 I
Total Kheldahl Nitrogen (TKN) (as N)		mg/l	1.24
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:		12/23/2014
	Standard(1)	Units	
1,2,3-Trichloropropane	0.2	ug/l	0.0198 U
1,2-Dibromoethane (EDB)	13	ug/l	0.00991 U
1,2-Dibromo-3-chloropropane		ug/l	0.0198 U
2-Butanone (MEK)	120000	ug/l	0.500 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	1.40
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	1.00 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; mg/m³ - milligrams per cubic meter. U = less than method detection limit (MDL) I = between MDL and practical quantitation limit

(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 (117) was 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 $e(0.845(\ln H)-1.702)$
- (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

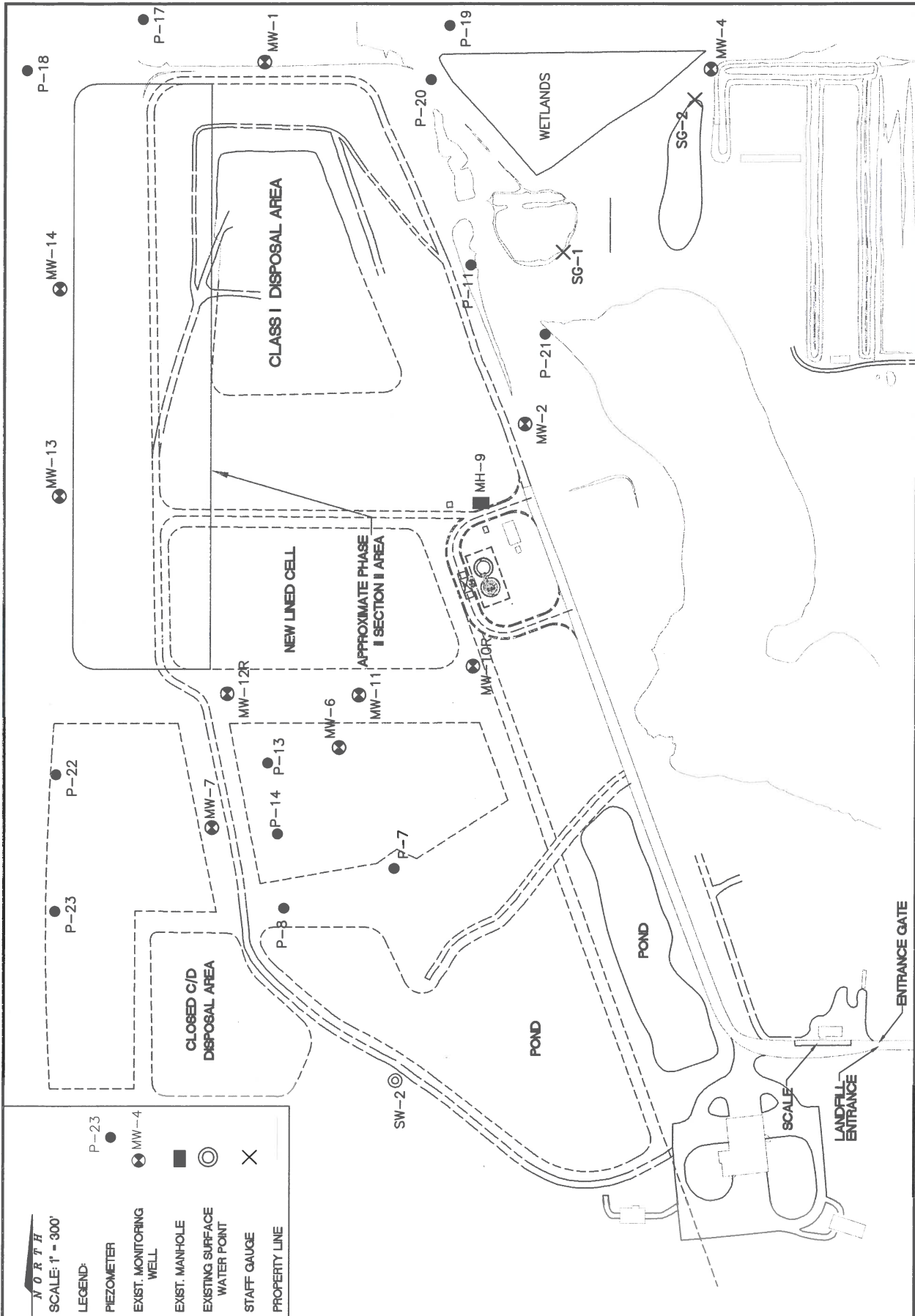


FIGURE 1

MONITORING POINTS

HARDEE COUNTY
LANDFILL

ATKINS

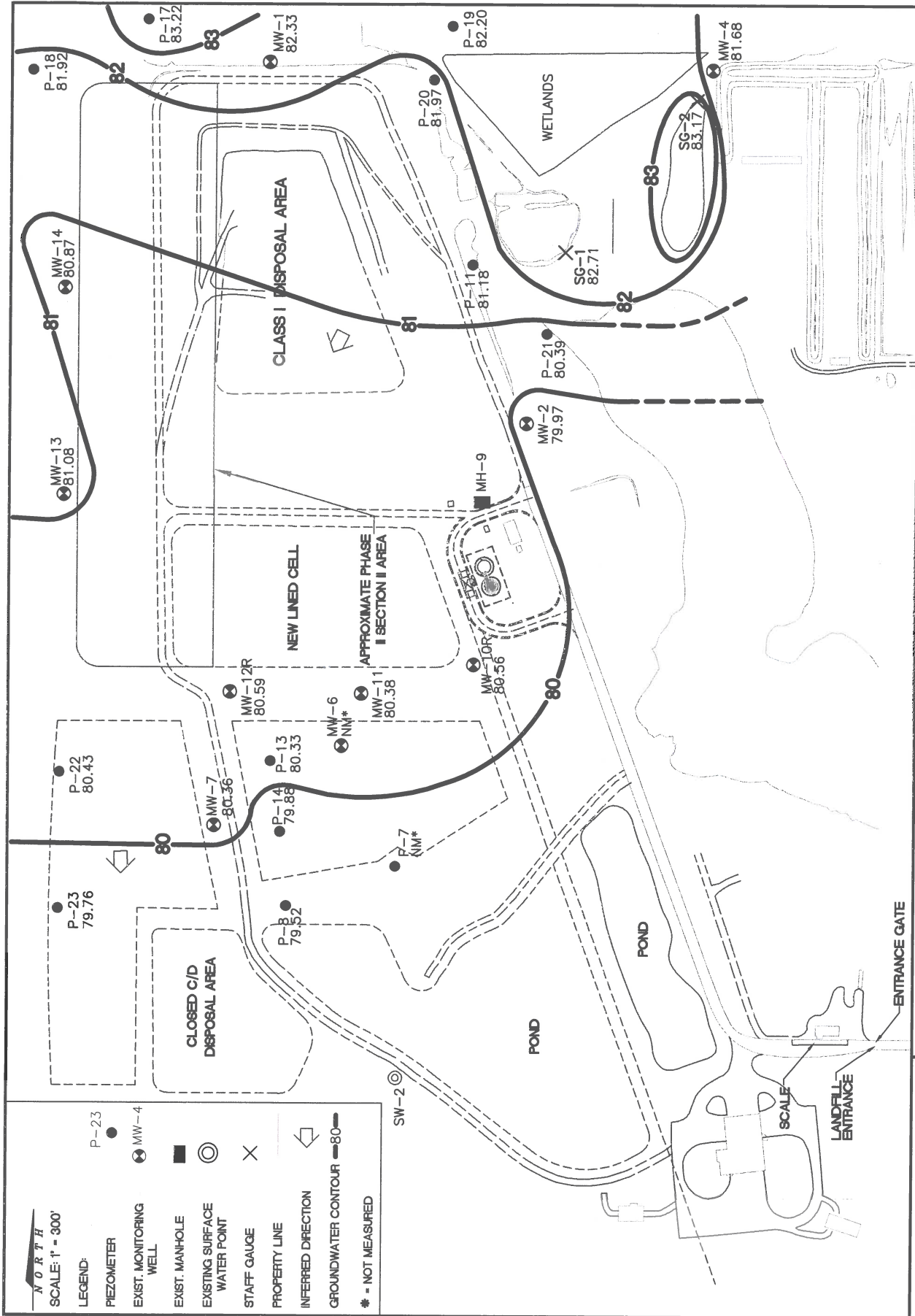


FIGURE 2
WATER TABLE
ELEVATION CONTOUR MAP
SECOND HALF 2014

HARDEE COUNTY
LANDFILL

ATKINS

ATTACHMENT A

Ground Water Monitoring Report Form

Florida Department of Environmental Protection

Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

DEP Form # <u>62-522.900(2)</u>
Form Title <u>Ground Water Monitoring Report</u>
Effective Date _____
DEP Application No. _____

GROUND WATER MONITORING REPORT

Rule 62-522.600(11)

PART I GENERAL INFORMATION

- (1) Facility Name Hardee County Solid Waste Disposal Facility
Address 685 Airport Road
City Wauchula, Florida Zip 33873
Telephone Number (863) 733-5089
- (2) The GMS Identification Number 4025C30001
- (3) DEP Permit Number 38414-016-SO/01
- (4) Authorized Representative Name Bradley J. Bayne, PG, Atkins
Address 4030 West Boy Scout Boulevard, Suite 700
City Tampa, Florida Zip 33607
Telephone Number (813) 281-8377
- (5) Type of Discharge N/A
- (6) Method of Discharge N/A

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 submitting false information, including the possibility of fine and imprisonment.

Date: 1-15-15 
Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # Atkins

Analytical Lab Comp QAP # /HRS Certification # E83018

*Comp QAP # /HRS Certification # _____

Lab #1: Flowers Chemical Laboratories, Inc., 481 Newburyport Avenue, Altamonte Springs, FL 32715

Lab #2 _____

Phone Number (407) 339-5984

PART III ANALYTICAL RESULTS

Facility GMS #: _____ Sampling Date/Time: December 2014

Test Site ID #: _____ Report Period: Second Half 2014
(year/quarter)

Well Name: _____ Well Purged (Y/N): _____

Classification of Ground Water: _____

Well Type: () Background
() Intermediate
() Compliance
() Other

Ground Water Elevation (NGVD): _____
or (MSL): _____

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	* Analysis Results/Units	Detection Limits/Units
	Please see sampling report, Forms, and laboratory report.						

* Attach Laboratory Reports

ATTACHMENT B

Groundwater Sampling Logs and Field Equipment Calibration Logs

SITE NAME: HARDEE COUNTY LANDFILL	SITE LOCATION: 685 AIRPORT RD., WAUCHULA, FL
NO: MUJ-1	SAMPLE ID: MUJ-1
	DATE: 12/22/12

PURGING DATA

[illegible]

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: RAYMUNDO CASTRO		SAMPLERS SIGNATURE(S): <i>Raymundo Castro</i>		SAMPLING INITIATED AT: 15:35		SAMPLING ENDED AT: 15:37	
PUMP OR TUBING DEPTH IN WELL (feet):		TUBING MATERIAL CODE: STEE		FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y <input checked="" type="radio"/> N <input type="radio"/>		TUBING Y <input checked="" type="radio"/> N(replaced)		DUPLICATE: Y <input checked="" type="radio"/> N <input type="radio"/>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	SAMPLING EQUIPMENT CODE
REMARKS:							
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene S = Silicone; T = Teflon; O = Other (Specify) SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; 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 CRITERIAL 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 $\geq 20\%$ 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)

Revision Date: February 12, 2009

PURGING DATA

SAMPLING DATA

NOTES:

- Revision Date: February 12, 2009

PURGING DATA

SAMPLING DATA

NOTES:

- Revision Date: February 12, 2009

SITE NAME: HARDEE COUNTY LANDFILL		SITE LOCATION: 685 AIRPORT RD., WAUCHULA, FL	
NO: MW-10R	SAMPLE ID: MW-10R	DATE: 12/23/14	

PURGING DATA

[illegible]

SAMPLING DATA

[illegible]

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After 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 CRITERIAL 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 $\leq 5\text{ NTU}$ or $\pm 10\%$ (whichever is greater)

Revision Date: February 12, 2009

GROUNDWATER SAMPLING LOG

SITE NAME: HARDEE COUNTY LANDFILL		SITE LOCATION: 685 AIRPORT RD., WAUCHULA, FL	
NO: MW-11	SAMPLE ID: MW-11	DATE: 12/23/14	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.73	PURG PUMP TYPE OR BAILER: PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY											
(only fill out if applicable)											
= (13.90 feet - 7.73 feet) X 0.16 gallons = 0.99 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): 12	PURGING INITIATED AT: 10:52	PURGING ENDED AT: 11:32	TOTAL VOLUME PURGED (gallons): 4.00							
TIME	VOLUME PURGE (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gallons)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (circle units) $\mu\text{mho/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:02	1.00	1.00	0.10	7.81	4.24	23.31	54	1.92	35	CLEAR	NONE
11:07	0.50	1.50	0.10	7.81	4.24	23.32	54	1.72	34	"	"
11:12	0.50	2.00	0.10	7.81	4.34	23.33	54	1.67	29	"	"
11:17	0.50	2.50	0.10	7.81	4.37	23.34	54	1.70	27	"	"
11:22	0.50	3.00	0.10	7.81	4.39	23.36	54	1.62	27	"	"
11:27	0.50	3.50	0.10	7.81	4.40	23.37	54	1.62	28	"	"
11:32	0.50	4.00	0.10	7.81	4.40	23.37	54	1.60	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: RAYMUNDO CASTRO				SAMPLERS SIGNATURE(S): <i>Raymundo Castro</i>				SAMPLING INITIATED AT: 11:34		SAMPLING ENDED AT: 11:36	
PUMP OR TUBING DEPTH IN WELL (feet): 12				TUBING MATERIAL CODE: S+PE		FIELD-FILTERED: Y (N)		FILTER SIZE: <u> </u> μm			
FIELD DECONTAMINATION: PUMP Y (N)				TUBING Y (N(replaced))		DUPLICATE: Y (N)					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ML)	FINAL pH					
SEE CHAIN OF CUSTODY											
REMARKS:											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = After 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:

- The above do not constitute all of the information required by Chapter 62-160, F.A.C.
- 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 $\geq 20\%$ 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)

Revision Date: February 12, 2009

PURGING DATA

SAMPLING DATA

NOTES:

- Revision Date: February 12, 2009

PURGING DATA

SAMPLING DATA

NOTES:

- Revision Date: February 12, 2009

GROUNDWATER SAMPLING LOG

SITE NAME:	HARDEE COUNTY LANDFILL		SITE LOCATION:	685 AIRPORT RD., WAKHULA, FL	
NO:	MW-14	SAMPLE ID:	MW-14	DATE:	12/22/14

PURGING DATA

[illegible]

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: RAYMUNDO CASTRO				SAMPLERS SIGNATURE(S): <i>Raymundo Castro</i>		SAMPLING INITIATED AT: 16:18		SAMPLING ENDED AT: 16:20	
PUMP OR TUBING DEPTH IN WELL (feet): 12				TUBING MATERIAL CODE:		FIELD-FILTERED: Y N		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y N				TUBING Y N(replaced)		DUPLICATE: Y N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (Ml)	FINAL pH			
REMARKS:									
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene S = Silicone; T = Teflon; O = Other (Specify)									
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)									

NOTES:

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 $\geq 20\%$ 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)

Revision Date: February 12, 2009

PURGING DATA

SAMPLING DATA

NOTES:

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 $\geq 20\%$ 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)

Revision Date: February 12, 2009

INSTRUMENT (MAKE/MODEL#) YSI MODEL 556 INSTRUMENT # BA-100810
PARAMETER: [check only one] RENTED FROM CYCLONE INSTRUMENTS

Standard C _____

[illegible]

INSTRUMENT (MAKE/MODEL#) YSI MODEL 556 INSTRUMENT # 8A-100810
PARAMETER: [check only one] RENTED FROM CYCLONE INSTRUMENTS

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 B _____

Standard C _____

Revision Date: January 1, 2002

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

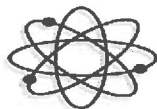
PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 22, 2014
Jan 7, 2015; Invoice: 254758

Report Summary

Date Received: Dec 23, 2014

FCL Project Manager: June S. Flowers

Laboratory #	Sample Description	Analysis	Chemist	Location	Sample Matrix
254758GW1	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	CLS	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	
254758GW2	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	CLS	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	
254758GW3	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	CLS	Main Lab	
		FT1000	RJC	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs, FL 32715 0597
571 NW Mercantile Pl, Suite 111, Port St. Lucie, FL 34986
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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 REGIONAL LAN
Date Sampled: Dec 22, 2014
Jan 7, 2015; Invoice: 254758

254758GW4	MW-10R/22930	FT1600	RJC	Main Lab	Ground Water
		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	CLS	Main Lab	
		FT1000	RJC	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
254758GW5	MW-11/21882	FT1500	RJC	Main Lab	Ground Water
		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	CLS	Main Lab	
		FT1000	RJC	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
254758GW6	MW-12R/22931	FT1400	RJC	Main Lab	Ground Water
		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	CLS	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	



FLOWERS CHEMICAL LABORATORIES INC.

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

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Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 22, 2014
Jan 7, 2015; Invoice: 254758

254758GW7	MW-13/29063	SM4500-CI E	VLB	Main Lab	Ground Water
		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	CLS	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	
254758GW8	MW-14/29064	SM4500-CI E	VLB	Main Lab	Ground Water
		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	CLS	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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PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 22, 2014
Jan 7, 2015; Invoice: 254758

Analysis Report

Lab #: 254758GW1 Sampled: 12/22/14 03:35 PM Desc: MW-1/296

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	246	mg/L	1.00	2.50	5.00	10270606	SM2540 C	10-33-3	12/24/14
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10270802	EPA7470	7439-97-6	12/30/14
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10270847	EPA6020	7440-36-0	12/29/14
Arsenic	0.00510	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-38-2	12/29/14
Barium	0.0114	mg/L	1.00	0.00200	0.00400	10270847	EPA6020	7440-39-3	12/29/14
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10270847	EPA6020	7440-41-7	12/29/14
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-43-9	12/29/14
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-47-3	12/29/14
Cobalt	0.00110 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-48-4	12/29/14
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-50-8	12/29/14
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7439-92-1	12/29/14
Nickel	0.00520	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-02-0	12/29/14
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10270847	EPA6020	7782-49-2	12/29/14
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10270847	EPA6020	7440-22-4	12/29/14
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-28-0	12/29/14
Vanadium	0.0199	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-62-2	12/29/14
Zinc	0.0148 U	mg/L	1.00	0.0100	0.0200	10270847	EPA6020	7440-66-6	12/29/14
Nitrate(as N)	0.0901	mg/L	1.00	0.0100	0.0200	10270902	EPA353.2	14797-55-8	12/24/14
Ammonia (as N)	0.262	mg/L	1.00	0.0100	0.0200	10271163	EPA350.1	7664-41-7	01/05/15
Chloride	23.6	mg/L	1.00	4.00	8.00	10271210	SM4500-Cl E	16887-00-6	01/02/15
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	630-20-6	12/31/14
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	71-55-6	12/31/14
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10271234	EPA8260	79-34-5	12/31/14
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	79-00-5	12/31/14
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-34-3	12/31/14
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-35-4	12/31/14
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10271234	EPA8260	107-06-2	12/31/14

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Tampa, FL 33607

PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN

Date Sampled: Dec 22, 2014

Jan 7, 2015; Invoice: 254758

Lab #: 254758GW1 Sampled: 12/22/14 03:35 PM Desc: MW-1/296

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10271234	EPA8260	78-87-5	12/31/14
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	78-93-3	12/31/14
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	591-78-6	12/31/14
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10271234	EPA8260	67-64-1	12/31/14
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10271234	EPA8260	107-13-1	12/31/14
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	71-43-2	12/31/14
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10271234	EPA8260	074-97-5	12/31/14
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10271234	EPA8260	75-27-4	12/31/14
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-25-2	12/31/14
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	74-83-9	12/31/14
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	75-15-0	12/31/14
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	56-23-5	12/31/14
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	108-90-7	12/31/14
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-00-3	12/31/14
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	67-66-3	12/31/14
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	74-87-3	12/31/14
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10271234	EPA8260	124-48-1	12/31/14
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	074-95-3	12/31/14
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	100-41-4	12/31/14
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	074-88-4	12/31/14
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	108-10-1	12/31/14
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	75-09-2	12/31/14
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	106-46-7	12/31/14
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	100-42-5	12/31/14
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	127-18-4	12/31/14
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	108-88-3	12/31/14
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	79-01-6	12/31/14
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-69-4	12/31/14
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	20.0	10271234	EPA8260	108-05-4	12/31/14



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Client Project #: HARDEE COUNTY REGIONAL LAN
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Lab #: 254758GW1 Sampled: 12/22/14 03:35 PM Desc: MW-1/296

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-01-4	12/31/14
Xylenes	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	1330-20-7	12/31/14
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10271234	EPA8260	156-59-2	12/31/14
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	10061-01-5	12/31/14
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	95-50-1	12/31/14
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	156-60-5	12/31/14
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	10061-02-6	12/31/14
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	110-57-6	12/31/14
Surr:1,2-Dichloroethane-d4 (77-129%)	91.57%		1.00	0.0100	0.0100	10271234	EPA8260	460-00-4	12/31/14
Surr:Bromofluorobenzene (70-122%)	92.20%		1.00	0.0100	0.0100	10271234	EPA8260	12/31/14	12/31/14
Surr:Toluene-d8 (80-120%)	97.17%		1.00	0.0100	0.0200	10271237	EPA6010	7439-89-6	01/05/15
Iron	7.57	mg/L	1.00	0.500	1.00	10271237	EPA6010	7440-23-5	01/05/15
Sodium	10.6	mg/L	1.00	0.500	0.0394	10271293	EPA8011	096-18-4	12/30/14
1,2,3-Trichloropropane	0.0197 U	ug/L	0.986	0.0197	0.0197	10271293	EPA8011	106-93-4	12/30/14
1,2-Dibromoethane (EDB)	0.00986 U	ug/L	0.986	0.00986	0.0394	10271293	EPA8011	96-12-8	12/30/14
1,2-dibromo-3-chloropropane	0.0197 U	ug/L	1.00	-10.0	-10.0	10271344	FT1000	C006	12/22/14
Field Ground Water Elevation	82.3	ft	1.00	0.0100	0.0200	10271344	FT1100		12/22/14
Field pH (units)	4.23	pH	1.00	0.100	0.100	10271344	FT1200		12/22/14
Field Conductivity	171	umhos/cm	1.00	0.100	0.100	10271344	FT1400		12/22/14
Field Temp. (C)	22.4	oC	1.00	0.100	0.100	10271344	FT1500		12/22/14
Field DO	0.620	mg/L	1.00	0.100	0.100	10271344	FT1600		12/22/14
Field Turbidity	10.0	NTU	1.00	0.100	0.100	10271344	FT1600		12/22/14

Lab #: 254758GW2 Sampled: 12/22/14 01:54 PM Desc: MW-2/297

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	258	mg/L	1.00	2.50	5.00	10270606	SM2540 C	10-33-3	12/24/14
Mercury	0.000200 U	mg/L	1.00	0.000200	0.000400	10270802	EPA7470	7439-97-6	12/30/14
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10270847	EPA6020	7440-36-0	12/29/14
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-38-2	12/29/14



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Lab #: 254758GW2 Sampled: 12/22/14 01:54 PM Desc: MW-2/297

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Barium	0.0151	mg/L	1.00	0.00200	0.00400	10270847	EPA6020	7440-39-3	12/29/14
Beryllium	0.00500 U	mg/L	1.00	0.000500	0.00100	10270847	EPA6020	7440-41-7	12/29/14
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-43-9	12/29/14
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-47-3	12/29/14
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-48-4	12/29/14
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-50-8	12/29/14
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7439-92-1	12/29/14
Nickel	0.00140 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-02-0	12/29/14
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10270847	EPA6020	7782-49-2	12/29/14
Silver	0.00500 U	mg/L	1.00	0.000500	0.00100	10270847	EPA6020	7440-22-4	12/29/14
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-28-0	12/29/14
Vanadium	0.00260	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-62-2	12/29/14
Zinc	0.0107 U	mg/L	1.00	0.0100	0.0200	10270847	EPA6020	7440-66-6	12/29/14
Nitrate(as N)	0.531	mg/L	1.00	0.0100	0.0200	10270902	EPA353.2	14797-55-8	12/24/14
Ammonia (as N)	0.267	mg/L	1.00	0.0100	0.0200	10271163	EPA350.1	7664-41-7	01/05/15
Chloride	8.22	mg/L	1.00	4.00	8.00	10271210	SM4500-Cl E	16887-00-6	01/02/15
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	630-20-6	12/31/14
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	71-55-6	12/31/14
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10271234	EPA8260	79-34-5	12/31/14
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	79-00-5	12/31/14
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-34-3	12/31/14
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-35-4	12/31/14
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10271234	EPA8260	107-06-2	12/31/14
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10271234	EPA8260	78-87-5	12/31/14
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	78-93-3	12/31/14
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	591-78-6	12/31/14
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10271234	EPA8260	67-64-1	12/31/14
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10271234	EPA8260	107-13-1	12/31/14
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	71-43-2	12/31/14

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Lab #: 254758GW2 Sampled: 12/22/14 01:54 PM Desc: MW-2/297

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10271234	EPA8260	074-97-5	12/31/14
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10271234	EPA8260	75-27-4	12/31/14
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-25-2	12/31/14
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	74-83-9	12/31/14
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	75-15-0	12/31/14
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	56-23-5	12/31/14
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	108-90-7	12/31/14
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-00-3	12/31/14
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	67-66-3	12/31/14
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	74-87-3	12/31/14
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10271234	EPA8260	124-48-1	12/31/14
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	074-95-3	12/31/14
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	100-41-4	12/31/14
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	074-88-4	12/31/14
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	108-10-1	12/31/14
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	75-09-2	12/31/14
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	106-46-7	12/31/14
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	100-42-5	12/31/14
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	127-18-4	12/31/14
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	108-88-3	12/31/14
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	79-01-6	12/31/14
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-69-4	12/31/14
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	20.0	10271234	EPA8260	108-05-4	12/31/14
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-01-4	12/31/14
Xylenes	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	1330-20-7	12/31/14
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10271234	EPA8260	156-59-2	12/31/14
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	10061-01-5	12/31/14
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	95-50-1	12/31/14
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	156-60-5	12/31/14



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PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 22, 2014
Jan 7, 2015; Invoice: 254758

Lab #: 254758GW2 Sampled: 12/22/14 01:54 PM Desc: MW-2/297

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	10271234	EPA8260	10061-02-6	12/31/14
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	110-57-6	12/31/14
Surr:1,2-Dichloroethane-d4 (77-129%)	90.40%		1.00	0.0100	0.0100	10271234	EPA8260		12/31/14
Surr:Bromofluorobenzene (70-122%)	93.10%		1.00	1.00	1.00	10271234	EPA8260	460-00-4	12/31/14
Surr:Toluene-d8 (80-120%)	96.43%		1.00	0.0100	0.0100	10271234	EPA8260		12/31/14
Iron	1.79	mg/L	1.00	0.0100	0.0200	10271237	EPA6010	7439-89-6	01/05/15
Sodium	15.2	mg/L	1.00	0.500	1.00	10271237	EPA6010	7440-23-5	01/05/15
1,2,3-Trichloropropane	0.0190 U	ug/L	0.949	0.0190	0.0379	10271293	EPA8011	096-18-4	12/30/14
1,2-Dibromoethane (EDB)	0.00949 U	ug/L	0.949	0.00949	0.0190	10271293	EPA8011	106-93-4	12/30/14
1,2-dibromo-3-chloropropane	0.0190 U	ug/L	0.949	0.0190	0.0379	10271293	EPA8011	96-12-8	12/30/14
Field Ground Water Elevation	80.0	ft	1.00	-10.0	-10.0	10271344	FT1000		12/22/14
Field pH (units)	6.78	pH	1.00	0.0100	0.0200	10271344	FT1100	C006	12/22/14
Field Conductivity	393	umhos/cm	1.00	0.100	0.100	10271344	FT1200		12/22/14
Field Temp. (C)	22.1	oC	1.00	0.100	0.100	10271344	FT1400		12/22/14
Field DO	0.880	mg/L	1.00	0.100	0.100	10271344	FT1500		12/22/14
Field Turbidity	17.5	NTU	1.00	0.100	0.100	10271344	FT1600		12/22/14

Lab #: 254758GW3 Sampled: 12/22/14 02:36 PM Desc: MW-4/299

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	398	mg/L	1.00	2.50	5.00	10270606	SM2540 C	10-33-3	12/24/14
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10270802	EPA7470	7439-97-6	12/30/14
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10270847	EPA6020	7440-36-0	12/29/14
Arsenic	0.0147	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-38-2	12/29/14
Barium	0.0129	mg/L	1.00	0.00200	0.00400	10270847	EPA6020	7440-39-3	12/29/14
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10270847	EPA6020	7440-41-7	12/29/14
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-43-9	12/29/14
Chromium	0.00870	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-47-3	12/29/14
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-48-4	12/29/14
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-50-8	12/29/14



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PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN

Date Sampled: Dec 22, 2014

Jan 7, 2015; Invoice: 254758

Lab #: 254758GW3 Sampled: 12/22/14 02:36 PM Desc: MW-4/299

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7439-92-1	12/29/14
Nickel	0.00130 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-02-0	12/29/14
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10270847	EPA6020	7782-49-2	12/29/14
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10270847	EPA6020	7440-22-4	12/29/14
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-28-0	12/29/14
Vanadium	0.0188	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-62-2	12/29/14
Zinc	0.0110 U	mg/L	1.00	0.0100	0.0200	10270847	EPA6020	7440-66-6	12/29/14
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10270902	EPA353.2	14797-55-8	12/24/14 11:31 AM
Ammonia (as N)	0.251	mg/L	1.00	0.0100	0.0200	10271163	EPA350.1	7664-41-7	01/05/15
Chloride	15.9	mg/L	1.00	4.00	8.00	10271210	SM4500-Cl E	16887-00-6	01/02/15
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	630-20-6	12/31/14
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	71-55-6	12/31/14
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10271234	EPA8260	79-34-5	12/31/14
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	79-00-5	12/31/14
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-34-3	12/31/14
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-35-4	12/31/14
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10271234	EPA8260	107-06-2	12/31/14
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10271234	EPA8260	78-87-5	12/31/14
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	78-93-3	12/31/14
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	591-78-6	12/31/14
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10271234	EPA8260	67-64-1	12/31/14
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10271234	EPA8260	107-13-1	12/31/14
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	71-43-2	12/31/14
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10271234	EPA8260	074-97-5	12/31/14
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10271234	EPA8260	75-27-4	12/31/14
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-25-2	12/31/14
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	74-83-9	12/31/14
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	75-15-0	12/31/14
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	56-23-5	12/31/14



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PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN

Date Sampled: Dec 22, 2014

Jan 7, 2015; Invoice: 254758

Lab #: 254758GW3 Sampled: 12/22/14 02:36 PM Desc: MW-4/299

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	108-90-7	12/31/14
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-00-3	12/31/14
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	67-66-3	12/31/14
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	74-87-3	12/31/14
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10271234	EPA8260	124-48-1	12/31/14
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	074-95-3	12/31/14
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	100-41-4	12/31/14
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	074-88-4	12/31/14
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	108-10-1	12/31/14
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	75-09-2	12/31/14
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	106-46-7	12/31/14
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	100-42-5	12/31/14
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	127-18-4	12/31/14
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	108-88-3	12/31/14
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	79-01-6	12/31/14
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-69-4	12/31/14
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	20.0	10271234	EPA8260	108-05-4	12/31/14
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-01-4	12/31/14
Xylenes	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	1330-20-7	12/31/14
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10271234	EPA8260	156-59-2	12/31/14
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	10061-01-5	12/31/14
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	95-50-1	12/31/14
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	156-60-5	12/31/14
trans-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	10061-02-6	12/31/14
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	110-57-6	12/31/14
Surr:1,2-Dichloroethane-d4 (77-129%)	91.10%		1.00	0.0100	0.0100	10271234	EPA8260		12/31/14
Surr:Bromofluorobenzene (70-122%)	92.63%		1.00	1.00	1.00	10271234	EPA8260	460-00-4	12/31/14
Surr:Toluene-d8 (80-120%)	96.97%		1.00	0.0100	0.0100	10271234	EPA8260		12/31/14
Iron	15.2	mg/L	1.00	0.0100	0.0200	10271237	EPA6010	7439-89-6	01/05/15



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PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN

Date Sampled: Dec 22, 2014

Jan 7, 2015; Invoice: 254758

Lab #: 254758GW3 Sampled: 12/22/14 02:36 PM Desc: MW-4/299

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Sodium	7.37	mg/L	1.00	0.500	1.00	10271237	EPA6010	7440-23-5	01/05/15
1,2,3-Trichloropropane	0.0187 U	ug/L	0.934	0.0187	0.0374	10271293	EPA8011	096-18-4	12/30/14
1,2-Dibromoethane (EDB)	0.00934 U	ug/L	0.934	0.00934	0.0187	10271293	EPA8011	106-93-4	12/30/14
1,2-dibromo-3-chloropropane	0.0187 U	ug/L	0.934	0.0187	0.0374	10271293	EPA8011	96-12-8	12/30/14
Field Ground Water Elevation	81.7	ft	1.00	-10.0	-10.0	10271344	FT1000		12/22/14
Field pH (units)	6.10	pH	1.00	0.0100	0.0200	10271344	FT1100	C006	12/22/14
Field Conductivity	394	umhos/cm	1.00	0.100	0.100	10271344	FT1200		12/22/14
Field Temp. (C)	22.8	oC	1.00	0.100	0.100	10271344	FT1400		12/22/14
Field DO	0.550	mg/L	1.00	0.100	0.100	10271344	FT1500		12/22/14
Field Turbidity	5.00	NTU	1.00	0.100	0.100	10271344	FT1600		12/22/14

Lab #: 254758GW4 Sampled: 12/23/14 09:47 AM Desc: MW-10R/22930

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	236	mg/L	1.00	2.50	5.00	10270606	SM2540 C	10-33-3	12/24/14
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10270802	EPA7470	7439-97-6	12/30/14
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10270847	EPA6020	7440-36-0	12/29/14
Arsenic	0.00430	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-38-2	12/29/14
Barium	0.0200	mg/L	1.00	0.00200	0.00400	10270847	EPA6020	7440-39-3	12/29/14
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10270847	EPA6020	7440-41-7	12/29/14
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-43-9	12/29/14
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-47-3	12/29/14
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-48-4	12/29/14
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-50-8	12/29/14
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7439-92-1	12/29/14
Nickel	0.00190 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-02-0	12/29/14
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10270847	EPA6020	7782-49-2	12/29/14
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10270847	EPA6020	7440-22-4	12/29/14
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-28-0	12/29/14
Vanadium	0.00340	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-62-2	12/29/14



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

PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN

Date Sampled: Dec 22, 2014

Jan 7, 2015; Invoice: 254758

Lab #: 254758GW4 Sampled: 12/23/14 09:47 AM Desc: MW-10R/22930

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Zinc	0.0118 l	mg/L	1.00	0.0100	0.0200	10270847	EPA6020	7440-66-6	12/29/14
Nitrate(as N)	0.0242	mg/L	1.00	0.0100	0.0200	10270902	EPA353.2	14797-55-8	12/24/14
Ammonia (as N)	0.630	mg/L	1.00	0.0100	0.0200	10271163	EPA350.1	7664-41-7	01/05/15
Chloride	14.4	mg/L	1.00	4.00	8.00	10271210	SM4500-Cl E	16887-00-6	01/02/15
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	630-20-6	12/31/14
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	71-55-6	12/31/14
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10271234	EPA8260	79-34-5	12/31/14
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	79-00-5	12/31/14
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-34-3	12/31/14
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-35-4	12/31/14
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10271234	EPA8260	107-06-2	12/31/14
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10271234	EPA8260	78-87-5	12/31/14
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	78-93-3	12/31/14
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	591-78-6	12/31/14
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10271234	EPA8260	67-64-1	12/31/14
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10271234	EPA8260	107-13-1	12/31/14
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	71-43-2	12/31/14
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10271234	EPA8260	074-97-5	12/31/14
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10271234	EPA8260	75-27-4	12/31/14
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-25-2	12/31/14
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	74-83-9	12/31/14
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	75-15-0	12/31/14
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	56-23-5	12/31/14
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	108-90-7	12/31/14
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-00-3	12/31/14
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	67-66-3	12/31/14
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	74-87-3	12/31/14
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10271234	EPA8260	124-48-1	12/31/14
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	074-95-3	12/31/14



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PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN

Date Sampled: Dec 22, 2014

Jan 7, 2015; Invoice: 254758

Lab #: 254758GW4 Sampled: 12/23/14 09:47 AM Desc: MW-10R/22930

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	100-41-4	12/31/14
Methyl iodide	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	074-88-4	12/31/14
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	108-10-1	12/31/14
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	75-09-2	12/31/14
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	106-46-7	12/31/14
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	100-42-5	12/31/14
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	127-18-4	12/31/14
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	108-88-3	12/31/14
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	79-01-6	12/31/14
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-69-4	12/31/14
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	20.0	10271234	EPA8260	108-05-4	12/31/14
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-01-4	12/31/14
Xylenes	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	1330-20-7	12/31/14
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10271234	EPA8260	156-59-2	12/31/14
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	10061-01-5	12/31/14
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	95-50-1	12/31/14
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	156-60-5	12/31/14
trans-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	10061-02-6	12/31/14
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	110-57-6	12/31/14
Surr:1,2-Dichloroethane-d4 (77-129%)	91.30%		1.00	0.0100	0.0100	10271234	EPA8260	460-00-4	12/31/14
Surr:Bromofluorobenzene (70-122%)	95.80%		1.00	1.00	1.00	10271234	EPA8260	7439-89-6	01/05/15
Surr:Toluene-d8 (80-120%)	97.80%		1.00	0.0100	0.0200	10271237	EPA6010	7440-23-5	01/05/15
Iron	22.1	mg/L							
Sodium	12.3	mg/L							
1,2,3-Trichloropropane	0.0192 U	ug/L	0.960	0.0192	0.0384	10271293	EPA8011	096-18-4	12/30/14
1,2-Dibromoethane (EDB)	0.00960 U	ug/L	0.960	0.00960	0.0192	10271293	EPA8011	106-93-4	12/30/14
1,2-dibromo-3-chloropropane	0.0192 U	ug/L	0.960	0.0192	0.0384	10271293	EPA8011	96-12-8	12/30/14
Field Ground Water Elevation	80.6	ft	1.00	-10.0	-10.0	10271344	FT1000		12/23/14
Field pH (units)	5.95	pH	1.00	0.0100	0.0200	10271344	FT1100	C006	12/23/14



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PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN

Date Sampled: Dec 22, 2014

Jan 7, 2015; Invoice: 254758

Lab #: 254758GW4 Sampled: 12/23/14 09:47 AM Desc: MW-10R/22930

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Field Conductivity	363	umhos/cm	1.00	0.100	0.100	10271344	FT1200		12/23/14
Field Temp. (C)	23.0	oC	1.00	0.100	0.100	10271344	FT1400		12/23/14
Field DO	0.210	mg/L	1.00	0.100	0.100	10271344	FT1500		12/23/14
Field Turbidity	12.0	NTU	1.00	0.100	0.100	10271344	FT1600		12/23/14

Lab #: 254758GW5 Sampled: 12/23/14 11:34 AM Desc: MW-11/21882

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	92.0	mg/L	1.00	2.50	5.00	10270606	SM2540 C	10-33-3	12/24/14
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10270847	EPA6020	7440-36-0	12/29/14
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-38-2	12/29/14
Barium	0.0144	mg/L	1.00	0.00200	0.00400	10270847	EPA6020	7440-39-3	12/29/14
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10270847	EPA6020	7440-41-7	12/29/14
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-43-9	12/29/14
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-47-3	12/29/14
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-48-4	12/29/14
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-50-8	12/29/14
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7439-92-1	12/29/14
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-02-0	12/29/14
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10270847	EPA6020	7782-49-2	12/29/14
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10270847	EPA6020	7440-22-4	12/29/14
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-28-0	12/29/14
Vanadium	0.00590	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-62-2	12/29/14
Zinc	0.0290	mg/L	1.00	0.0100	0.0200	10270847	EPA6020	7440-66-6	12/29/14
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10270902	EPA353.2	14797-55-8	12/24/14 11:31 AM
Mercury	0.000200 U	mg/L	1.00	0.000200	0.000400	10271100	EPA7470	7439-97-6	12/30/14
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10271163	EPA350.1	7664-41-7	01/05/15
Chloride	4.86 l	mg/L	1.00	4.00	8.00	10271210	SM4500-Cl E	16887-00-6	01/02/15
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	630-20-6	12/31/14
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	71-55-6	12/31/14



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Date Sampled: Dec 22, 2014

Jan 7, 2015; Invoice: 254758

Lab #: 254758GW5 Sampled: 12/23/14 11:34 AM Desc: MW-11/21882

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	10271234	EPA8260	79-34-5	12/31/14
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	79-00-5	12/31/14
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-34-3	12/31/14
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-35-4	12/31/14
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10271234	EPA8260	107-06-2	12/31/14
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10271234	EPA8260	78-87-5	12/31/14
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	78-93-3	12/31/14
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	591-78-6	12/31/14
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10271234	EPA8260	67-64-1	12/31/14
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10271234	EPA8260	107-13-1	12/31/14
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	71-43-2	12/31/14
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10271234	EPA8260	074-97-5	12/31/14
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10271234	EPA8260	75-27-4	12/31/14
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-25-2	12/31/14
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	74-83-9	12/31/14
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	75-15-0	12/31/14
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	56-23-5	12/31/14
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	108-90-7	12/31/14
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-00-3	12/31/14
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	67-66-3	12/31/14
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	74-87-3	12/31/14
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10271234	EPA8260	124-48-1	12/31/14
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	074-95-3	12/31/14
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	100-41-4	12/31/14
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	074-88-4	12/31/14
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	108-10-1	12/31/14
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	75-09-2	12/31/14
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	106-46-7	12/31/14
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	100-42-5	12/31/14



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Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	127-18-4	12/31/14
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	108-88-3	12/31/14
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	79-01-6	12/31/14
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-69-4	12/31/14
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	20.0	10271234	EPA8260	108-05-4	12/31/14
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-01-4	12/31/14
Xylenes	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	1330-20-7	12/31/14
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10271234	EPA8260	156-59-2	12/31/14
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	10061-01-5	12/31/14
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	95-50-1	12/31/14
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	156-60-5	12/31/14
trans-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	10061-02-6	12/31/14
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	110-57-6	12/31/14
Surr:1,2-Dichloroethane-d4 (77-129%)	93.33%		1.00	0.0100	0.0100	10271234	EPA8260		12/31/14
Surr:Bromofluorobenzene (70-122%)	95.37%		1.00	1.00	1.00	10271234	EPA8260		12/31/14
Surr:Toluene-d8 (80-120%)	99.07%		1.00	0.0100	0.0100	10271234	EPA8260		12/31/14
Iron	0.206	mg/L	1.00	0.0100	0.0200	10271237	EPA6010		01/05/15
Sodium	5.08	mg/L	1.00	0.500	1.00	10271237	EPA6010		01/05/15
1,2,3-Trichloropropane	0.0198 U	ug/L	0.989	0.0198	0.0395	10271293	EPA8011		12/30/14
1,2-Dibromoethane (EDB)	0.00989 U	ug/L	0.989	0.00989	0.0198	10271293	EPA8011		12/30/14
1,2-dibromo-3-chloropropane	0.0198 U	ug/L	0.989	0.0198	0.0395	10271293	EPA8011		12/30/14
Field Ground Water Elevation	80.4	ft	1.00	-10.0	-10.0	10271344	FT1000		12/23/14
Field pH (units)	4.40	pH	1.00	0.0100	0.0200	10271344	FT1100	C006	12/23/14
Field Conductivity	54.0	umhos/cm	1.00	0.100	0.100	10271344	FT1200		12/23/14
Field Temp. (C)	23.4	oC	1.00	0.100	0.100	10271344	FT1400		12/23/14
Field DO	1.60	mg/L	1.00	0.100	0.100	10271344	FT1500		12/23/14
Field Turbidity	28.0	NTU	1.00	0.100	0.100	10271344	FT1600		12/23/14



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

PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAND
Date Sampled: Dec 22, 2014
Jan 7, 2015; Invoice: 254758

FLDOH: E83018 (Main Lab) FLDOH: E86562 (South Lab) FLDOH: E82405 (North Lab) NJDEP: FL015



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Atkins-Tampa
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Tampa, FL 33607

PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 22, 2014
Jan 7, 2015; Invoice: 254758

Lab #: 254758GW6 Sampled: 12/23/14 08:13 AM Desc: MW-12R/22931

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	591-78-6	12/31/14
Acetone	5.000 U	ug/L	1.00	5.00	10.0	10271234	EPA8260	67-64-1	12/31/14
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10271234	EPA8260	107-13-1	12/31/14
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	71-43-2	12/31/14
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10271234	EPA8260	074-97-5	12/31/14
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10271234	EPA8260	75-27-4	12/31/14
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-25-2	12/31/14
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	74-83-9	12/31/14
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	75-15-0	12/31/14
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	56-23-5	12/31/14
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	108-90-7	12/31/14
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-00-3	12/31/14
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	67-66-3	12/31/14
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	74-87-3	12/31/14
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10271234	EPA8260	124-48-1	12/31/14
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	074-95-3	12/31/14
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	100-41-4	12/31/14
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	074-88-4	12/31/14
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	108-10-1	12/31/14
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	75-09-2	12/31/14
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	106-46-7	12/31/14
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	100-42-5	12/31/14
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	127-18-4	12/31/14
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	108-88-3	12/31/14
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	79-01-6	12/31/14
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-69-4	12/31/14
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	20.0	10271234	EPA8260	108-05-4	12/31/14
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-01-4	12/31/14
Xylenes	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	1330-20-7	12/31/14



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

PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN

Date Sampled: Dec 22, 2014

Jan 7, 2015; Invoice: 254758

Lab #: 254758GW6 Sampled: 12/23/14 08:13 AM Desc: MW-12R/22931

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	10271234	EPA8260	156-59-2	12/31/14
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	10061-01-5	12/31/14
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	95-50-1	12/31/14
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	156-60-5	12/31/14
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	10061-02-6	12/31/14
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	110-57-6	12/31/14
Surr:1,2-Dichloroethane-d4 (77-129%)	92.77%		1.00	0.0100	0.0100	10271234	EPA8260		12/31/14
Surr:Bromofluorobenzene (70-122%)	94.17%		1.00	1.00	1.00	10271234	EPA8260	460-00-4	12/31/14
Surr:Toluene-d8 (80-120%)	98.37%		1.00	0.0100	0.0100	10271234	EPA8260		12/31/14
Iron	0.0210	mg/L	1.00	0.0100	0.0200	10271237	EPA6010	7439-89-6	01/05/15
Sodium	3.00	mg/L	1.00	0.500	1.00	10271237	EPA6010	7440-23-5	01/05/15
1,2,3-Trichloropropane	0.0193 U	ug/L	0.963	0.0193	0.0385	10271293	EPA8011	096-18-4	12/30/14
1,2-Dibromoethane (EDB)	0.00963 U	ug/L	0.963	0.00963	0.0193	10271293	EPA8011	106-93-4	12/30/14
1,2-dibromo-3-chloropropane	0.0193 U	ug/L	0.963	0.0193	0.0385	10271293	EPA8011	96-12-8	12/30/14
Field Ground Water Elevation	80.6	ft	1.00	-10.0	-10.0	10271344	FT1000		12/23/14
Field pH (units)	6.69	pH	1.00	0.0100	0.0200	10271344	FT1100	C006	12/23/14
Field Conductivity	390	umhos/cm	1.00	0.100	0.100	10271344	FT1200		12/23/14
Field Temp. (C)	21.8	oC	1.00	0.100	0.100	10271344	FT1400		12/23/14
Field DO	1.50	mg/L	1.00	0.100	0.100	10271344	FT1500		12/23/14
Field Turbidity	1.00	NTU	1.00	0.100	0.100	10271344	FT1600		12/23/14

Lab #: 254758GW7 Sampled: 12/23/14 07:33 AM Desc: MW-13/29063

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	170	mg/L	1.00	2.50	5.00	10270606	SM2540 C	10-33-3	12/24/14
Mercury	0.000200 U	mg/L	1.00	0.000200	0.000400	10270803	EPA7470	7439-97-6	12/30/14
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10270848	EPA6020	7440-36-0	12/29/14
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10270848	EPA6020	7440-38-2	12/29/14
Barium	0.0157	mg/L	1.00	0.00200	0.00400	10270848	EPA6020	7440-39-3	12/29/14
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10270848	EPA6020	7440-41-7	12/29/14



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PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN

Date Sampled: Dec 22, 2014

Jan 7, 2015; Invoice: 254758

Lab #: 254758GW7 Sampled: 12/23/14 07:33 AM Desc: MW-13/29063

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270848	EPA6020	7440-43-9	12/29/14
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270848	EPA6020	7440-47-3	12/29/14
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10270848	EPA6020	7440-48-4	12/29/14
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10270848	EPA6020	7440-50-8	12/29/14
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10270848	EPA6020	7439-92-1	12/29/14
Nickel	0.00230	mg/L	1.00	0.00100	0.00200	10270848	EPA6020	7440-02-0	12/29/14
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10270848	EPA6020	7782-49-2	12/29/14
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10270848	EPA6020	7440-22-4	12/29/14
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270848	EPA6020	7440-28-0	12/29/14
Vanadium	0.00330	mg/L	1.00	0.00100	0.00200	10270848	EPA6020	7440-62-2	12/29/14
Zinc	0.01611	mg/L	1.00	0.0100	0.0200	10270848	EPA6020	7440-66-6	12/29/14
Nitrate(as N)	1.40	mg/L	1.00	0.0100	0.0200	10270902	EPA353.2	14797-55-8	12/24/14 11:31 AM
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10271163	EPA350.1	7664-41-7	01/05/15
Chloride	30.0	mg/L	1.00	4.00	8.00	10271210	SM4500-Cl E	16887-00-6	01/02/15
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	630-20-6	12/31/14
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	71-55-6	12/31/14
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10271234	EPA8260	79-34-5	12/31/14
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	79-00-5	12/31/14
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-34-3	12/31/14
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-35-4	12/31/14
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10271234	EPA8260	107-06-2	12/31/14
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10271234	EPA8260	78-87-5	12/31/14
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	78-93-3	12/31/14
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	591-78-6	12/31/14
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10271234	EPA8260	67-64-1	12/31/14
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10271234	EPA8260	107-13-1	12/31/14
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	71-43-2	12/31/14
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10271234	EPA8260	074-97-5	12/31/14
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10271234	EPA8260	75-27-4	12/31/14



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Date Sampled: Dec 22, 2014

Jan 7, 2015; Invoice: 254758

Lab #: 254758GW7 Sampled: 12/23/14 07:33 AM Desc: MW-13/29063

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-25-2	12/31/14
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	74-83-9	12/31/14
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	75-15-0	12/31/14
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	56-23-5	12/31/14
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	108-90-7	12/31/14
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-00-3	12/31/14
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	67-66-3	12/31/14
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	74-87-3	12/31/14
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10271234	EPA8260	124-48-1	12/31/14
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	074-95-3	12/31/14
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	100-41-4	12/31/14
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	074-88-4	12/31/14
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	108-10-1	12/31/14
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	75-09-2	12/31/14
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	106-46-7	12/31/14
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	100-42-5	12/31/14
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	127-18-4	12/31/14
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	108-88-3	12/31/14
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	79-01-6	12/31/14
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-69-4	12/31/14
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	20.0	10271234	EPA8260	108-05-4	12/31/14
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-01-4	12/31/14
Xylenes	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	1330-20-7	12/31/14
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10271234	EPA8260	156-59-2	12/31/14
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	10061-01-5	12/31/14
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	95-50-1	12/31/14
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	156-60-5	12/31/14
trans-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	10061-02-6	12/31/14
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	110-57-6	12/31/14



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Date Sampled: Dec 22, 2014

Jan 7, 2015; Invoice: 254758

Lab #: 254758GW7 Sampled: 12/23/14 07:33 AM Desc: MW-13/29063

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Surr:1,2-Dichloroethane-d4 (77-129%)	92.70%		1.00	0.0100	0.0100	10271234	EPA8260		12/31/14
Surr:Bromofluorobenzene (70-122%)	96.37%		1.00	1.00	1.00	10271234	EPA8260	460-00-4	12/31/14
Surr:Toluene-d8 (80-120%)	98.13%		1.00	0.0100	0.0100	10271234	EPA8260		12/31/14
Iron	0.398	mg/L	1.00	0.0100	0.0200	10271237	EPA6010	7439-89-6	01/05/15
Sodium	10.6	mg/L	1.00	0.500	1.00	10271237	EPA6010	7440-23-5	01/05/15
1,2,3-Trichloropropane	0.0196 U	ug/L	0.980	0.0196	0.0392	10271293	EPA8011	096-18-4	12/30/14
1,2-Dibromoethane (EDB)	0.00980 U	ug/L	0.980	0.00980	0.0196	10271293	EPA8011	106-93-4	12/30/14
1,2-dibromo-3-chloropropane	0.0196 U	ug/L	0.980	0.0196	0.0392	10271293	EPA8011	96-12-8	12/30/14
Field Ground Water Elevation	81.1	ft	1.00	-10.0	-10.0	10271344	FT1000		12/23/14
Field pH (units)	5.02	pH	1.00	0.0100	0.0200	10271344	FT1100	C006	12/23/14
Field Conductivity	256	umhos/cm	1.00	0.100	0.100	10271344	FT1200		12/23/14
Field Temp. (C)	22.2	oC	1.00	0.100	0.100	10271344	FT1400		12/23/14
Field DO	0.590	mg/L	1.00	0.100	0.100	10271344	FT1500		12/23/14
Field Turbidity	2.50	NTU	1.00	0.100	0.100	10271344	FT1600		12/23/14

Lab #: 254758GW8 Sampled: 12/22/14 04:18 PM Desc: MW-14/29064

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	266	mg/L	1.00	2.50	5.00	10270606	SM2540 C	10-33-3	12/24/14
Mercury	0.000200 U	mg/L	1.00	0.000200	0.000400	10270803	EPA7470	7439-97-6	12/30/14
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10270848	EPA6020	7440-36-0	12/29/14
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10270848	EPA6020	7440-38-2	12/29/14
Barium	0.0184	mg/L	1.00	0.00200	0.00400	10270848	EPA6020	7440-39-3	12/29/14
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10270848	EPA6020	7440-41-7	12/29/14
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270848	EPA6020	7440-43-9	12/29/14
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270848	EPA6020	7440-47-3	12/29/14
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10270848	EPA6020	7440-48-4	12/29/14
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10270848	EPA6020	7440-50-8	12/29/14
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10270848	EPA6020	7439-92-1	12/29/14
Nickel	0.00200	mg/L	1.00	0.00100	0.00200	10270848	EPA6020	7440-02-0	12/29/14



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

PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN

Date Sampled: Dec 22, 2014

Jan 7, 2015; Invoice: 254758

Lab #: 254758GW8 Sampled: 12/22/14 04:18 PM Desc: MW-14/29064

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10270848	EPA6020	7782-49-2	12/29/14
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10270848	EPA6020	7440-22-4	12/29/14
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270848	EPA6020	7440-28-0	12/29/14
Vanadium	0.00310	mg/L	1.00	0.00100	0.00200	10270848	EPA6020	7440-62-2	12/29/14
Zinc	0.01181	mg/L	1.00	0.0100	0.0200	10270848	EPA6020	7440-66-6	12/29/14
Nitrate(as N)	2.32	mg/L	1.00	0.0100	0.0200	10270902	EPA353.2	14797-55-8	12/24/14
Ammonia (as N)	0.0427	mg/L	1.00	0.0100	0.0200	10271163	EPA350.1	7664-41-7	01/05/15
Chloride	25.0	mg/L	1.00	4.00	8.00	10271210	SM4500-Cl E	16887-00-6	01/02/15
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	630-20-6	12/31/14
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	71-55-6	12/31/14
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10271234	EPA8260	79-34-5	12/31/14
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	79-00-5	12/31/14
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-34-3	12/31/14
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-35-4	12/31/14
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10271234	EPA8260	107-06-2	12/31/14
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10271234	EPA8260	78-87-5	12/31/14
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	78-93-3	12/31/14
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	591-78-6	12/31/14
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10271234	EPA8260	67-64-1	12/31/14
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10271234	EPA8260	107-13-1	12/31/14
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	71-43-2	12/31/14
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10271234	EPA8260	074-97-5	12/31/14
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10271234	EPA8260	75-27-4	12/31/14
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-25-2	12/31/14
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	74-83-9	12/31/14
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	75-15-0	12/31/14
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	56-23-5	12/31/14
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	108-90-7	12/31/14
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-00-3	12/31/14



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Tampa, FL 33607

PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN

Date Sampled: Dec 22, 2014

Jan 7, 2015; Invoice: 254758

Lab #: 254758GW8 Sampled: 12/22/14 04:18 PM Desc: MW-14/29064

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	67-66-3	12/31/14
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	74-87-3	12/31/14
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10271234	EPA8260	124-48-1	12/31/14
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	074-95-3	12/31/14
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	100-41-4	12/31/14
Methyl iodide	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	074-88-4	12/31/14
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	108-10-1	12/31/14
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	75-09-2	12/31/14
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	106-46-7	12/31/14
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	100-42-5	12/31/14
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	127-18-4	12/31/14
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	108-88-3	12/31/14
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	79-01-6	12/31/14
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-69-4	12/31/14
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	20.0	10271234	EPA8260	108-05-4	12/31/14
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	75-01-4	12/31/14
Xylenes	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	1330-20-7	12/31/14
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10271234	EPA8260	156-59-2	12/31/14
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	10061-01-5	12/31/14
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	95-50-1	12/31/14
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	156-60-5	12/31/14
trans-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10271234	EPA8260	10061-02-6	12/31/14
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10271234	EPA8260	110-57-6	12/31/14
Surr:1,2-Dichloroethane-d4 (77-129%)	90.63%		1.00	0.0100	0.0100	10271234	EPA8260		12/31/14
Surr:Bromofluorobenzene (70-122%)	95.27%		1.00	1.00	1.00	10271234	EPA8260	460-00-4	12/31/14
Surr:Toluene-d8 (80-120%)	99.13%		1.00	0.0100	0.0100	10271234	EPA8260		12/31/14
Iron	1.71	mg/L	1.00	0.0100	0.0200	10271237	EPA6010	7439-89-6	01/05/15
Sodium	9.72	mg/L	1.00	0.500	1.00	10271237	EPA6010	7440-23-5	01/05/15
1,2,3-Trichloropropane	0.0190 U	ug/L	0.949	0.0190	0.0379	10271293	EPA8011	096-18-4	12/30/14



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Tampa, FL 33607

PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN

Date Sampled: Dec 22, 2014

Jan 7, 2015; Invoice: 254758

Lab #: 254758GW8 Sampled: 12/22/14 04:18 PM Desc: MW-14/29064

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
1,2-Dibromoethane (EDB)	0.00949 U	ug/L	0.949	0.00949	0.0190	10271293	EPA8011	106-93-4	12/30/14
1,2-dibromo-3-chloropropane	0.0190 U	ug/L	0.949	0.0190	0.0379	10271293	EPA8011	96-12-8	12/30/14
Field Ground Water Elevation	80.9	ft	1.00	-10.0	-10.0	10271344	FT1000		12/22/14
Field pH (units)	5.55	pH	1.00	0.0100	0.0200	10271344	FT1100	C006	12/22/14
Field Conductivity	395	umhos/cm	1.00	0.100	0.100	10271344	FT1200		12/22/14
Field Temp. (C)	22.9	oC	1.00	0.100	0.100	10271344	FT1400		12/22/14
Field DO	1.47	mg/L	1.00	0.100	0.100	10271344	FT1500		12/22/14
Field Turbidity	3.40	NTU	1.00	0.100	0.100	10271344	FT1600		12/22/14



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PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN

Date Sampled: Dec 22, 2014

Jan 7, 2015; Invoice: 254758

Quality Report

Quality Control Batch: 10270847

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

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Antimony	0.214	mg/L	0.200	106.90	76.70-120.39
Arsenic	0.203	mg/L	0.200	101.30	81.09-119.32
Barium	0.214	mg/L	0.200	107.10	84.59-125.11
Beryllium	0.206	mg/L	0.200	103.20	85.69-132.22
Cadmium	0.204	mg/L	0.200	102.20	84.66-121.81
Chromium	0.208	mg/L	0.200	103.95	87.00-122.96
Cobalt	0.229	mg/L	0.200	114.40	78.66-126.98



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Quality Control Batch: 10270847

Analyst: EVB

Laboratory Control Sample

	Result	Units	Spike	%REC	%REC Lim
Copper	0.191	mg/L	0.200	95.35	84.08-122.69
Lead	0.222	mg/L	0.200	110.75	86.91-124.18
Nickel	0.204	mg/L	0.200	101.85	77.31-126.31
Selenium	0.197	mg/L	0.200	98.25	75.98-121.42
Silver	0.188	mg/L	0.200	93.85	79.76-119.92
Thallium	0.215	mg/L	0.200	107.70	80.95-125.84
Vanadium	0.204	mg/L	0.200	102.15	78.51-125.51
Zinc	0.198	mg/L	0.200	99.20	79.82-122.80

Matrix Spike

	Result	Units	Spike	%REC	%REC Lim	Sample
Antimony	0.0709	mg/L	0.100	70.90	73.48-142.27	0.00200U
Arsenic	0.138	mg/L	0.100	70.20	73.05-140.45	0.0675
Barium	0.182	mg/L	0.100	109.80	70.68-156.87	0.0721
Beryllium	0.137	mg/L	0.100	136.70	89.27-154.67	0.000500U
Cadmium	0.0704	mg/L	0.100	70.40	76.87-137.80	0.00100U
Chromium	0.0553	mg/L	0.100	55.30	67.91-144.29	0.00100U
Cobalt	0.133	mg/L	0.100	132.50	68.92-150.01	0.00100U
Copper	0.0551	mg/L	0.100	55.10	57.64-148.77	0.00100U
Lead	0.0358	mg/L	0.100	35.80	69.09-150.83	0.00100U
Nickel	0.177	mg/L	0.100	114.30	58.01-145.27	0.0627
Silver	0.0642	mg/L	0.100	64.20	48.94-146.79	0.000500U
Thallium	0.0384	mg/L	0.100	38.40	68.93-151.79	0.00100U
Vanadium	0.226	mg/L	0.100	217.70	72.08-149.74	0.00870
Zinc	0.0873	mg/L	0.100	75.80	51.79-149.89	0.0115

Matrix Spike Duplicate

	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Antimony	0.0702	mg/L	0.100	70.20	73.48-142.27	0.00200U	0.99	23.91
Arsenic	0.135	mg/L	0.100	67.20	73.05-140.45	0.0675	2.20	26.42
Barium	0.185	mg/L	0.100	112.60	70.68-156.87	0.0721	1.53	20.91



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Jan 7, 2015; Invoice: 254758

Quality Control Batch: 10270847

Matrix Spike Duplicate

	Analyst: EVB		Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
	Result	Units						
Beryllium	0.130	mg/L	0.100	130.40	89.27-154.67	0.000500U	4.72	22.45
Cadmium	0.0685	mg/L	0.100	68.50	76.87-137.80	0.00100U	2.74	24.42
Chromium	0.0542	mg/L	0.100	54.20	67.91-144.29	0.00100U	2.01	26.93
Cobalt	0.126	mg/L	0.100	125.70	68.92-150.01	0.00100U	5.27	20.94
Copper	0.0541	mg/L	0.100	54.10	57.64-148.77	0.00100U	1.83	26.04
Lead	0.0339	mg/L	0.100	33.90	69.09-150.83	0.00100U	5.45	26.35
Nickel	0.170	mg/L	0.100	107.60	58.01-145.27	0.0627	3.86	25.87
Silver	0.0588	mg/L	0.100	58.80	48.94-146.79	0.000500U	8.78	25.78
Thallium	0.0370	mg/L	0.100	37.00	68.93-151.79	0.00100U	3.71	22.45
Vanadium	0.211	mg/L	0.100	202.20	72.08-149.74	0.00870	7.09	21.04
Zinc	0.0858	mg/L	0.100	74.30	51.79-149.89	0.0115	1.73	25.51

Quality Control Batch: 10270848

Blank

	Analyst: EVB	
	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



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Analyst: EVB

Laboratory Control Sample

	Result	Units	Spike	%REC	%REC Lim
Antimony	0.214	mg/L	0.200	106.90	76.70-120.39
Arsenic	0.203	mg/L	0.200	101.30	81.09-119.32
Barium	0.214	mg/L	0.200	107.10	84.59-125.11
Beryllium	0.206	mg/L	0.200	103.20	85.69-132.22
Cadmium	0.204	mg/L	0.200	102.20	84.66-121.81
Chromium	0.208	mg/L	0.200	103.95	87.00-122.96
Cobalt	0.229	mg/L	0.200	114.40	78.66-126.98
Copper	0.191	mg/L	0.200	95.35	84.08-122.69
Lead	0.222	mg/L	0.200	110.75	86.91-124.18
Nickel	0.204	mg/L	0.200	101.85	77.31-126.31
Selenium	0.197	mg/L	0.200	98.25	75.98-121.42
Silver	0.188	mg/L	0.200	93.85	79.76-119.92
Thallium	0.215	mg/L	0.200	107.70	80.95-125.84
Vanadium	0.204	mg/L	0.200	102.15	78.51-125.51
Zinc	0.198	mg/L	0.200	99.20	79.82-122.80

Matrix Spike

	Result	Units	Spike	%REC	%REC Lim	Sample
Antimony	0.0886	mg/L	0.100	88.60	73.48-142.27	0.00200U
Arsenic	0.0931	mg/L	0.100	93.10	73.05-140.45	0.00100U
Barium	0.109	mg/L	0.100	109.00	70.68-156.87	0.00200U
Beryllium	0.134	mg/L	0.100	134.10	89.27-154.67	0.000500U
Cadmium	0.0983	mg/L	0.100	98.30	76.87-137.80	0.00100U
Chromium	0.134	mg/L	0.100	133.80	67.91-144.29	0.00100U
Cobalt	0.122	mg/L	0.100	121.50	68.92-150.01	0.00100U
Copper	0.116	mg/L	0.100	115.90	57.64-148.77	0.00100U
Lead	0.0966	mg/L	0.100	96.60	69.09-150.83	0.00100U
Nickel	0.121	mg/L	0.100	119.20	58.01-145.27	0.00160
Selenium	0.0833	mg/L	0.100	83.30	63.72-144.34	0.00200U
Silver	0.0859	mg/L	0.100	85.90	48.94-146.79	0.000500U



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

PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN

Date Sampled: Dec 22, 2014

Jan 7, 2015; Invoice: 254758

Quality Control Batch: 10270848

Analyst: EVB

Matrix Spike

	Result	Units	Spike	%REC	%REC Lim	Sample	RPD Lim
Thallium	0.0948	mg/L	0.100	94.80	68.93-151.79	0.00100U	23.91
Vanadium	0.142	mg/L	0.100	132.70	72.08-149.74	0.00950	26.42
Zinc	0.118	mg/L	0.100	89.80	51.79-149.89	0.0278	20.91

Matrix Spike Duplicate

	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Antimony	0.0852	mg/L	0.100	85.20	73.48-142.27	0.00200U	3.91	23.91
Arsenic	0.0949	mg/L	0.100	94.90	73.05-140.45	0.00100U	1.91	26.42
Barium	0.107	mg/L	0.100	106.80	70.68-156.87	0.00200U	2.04	20.91
Beryllium	0.133	mg/L	0.100	133.30	89.27-154.67	0.000500U	0.60	22.45
Cadmium	0.0950	mg/L	0.100	95.00	76.87-137.80	0.00100U	3.41	24.42
Chromium	0.136	mg/L	0.100	136.20	67.91-144.29	0.00100U	1.78	26.93
Cobalt	0.123	mg/L	0.100	122.60	68.92-150.01	0.00100U	0.90	20.94
Copper	0.125	mg/L	0.100	125.10	57.64-148.77	0.00100U	7.63	26.04
Lead	0.0939	mg/L	0.100	93.90	69.09-150.83	0.00100U	2.83	26.35
Nickel	0.124	mg/L	0.100	122.20	58.01-145.27	0.00160	2.45	25.87
Selenium	0.0857	mg/L	0.100	85.70	63.72-144.34	0.00200U	2.84	23.19
Silver	0.0822	mg/L	0.100	82.20	48.94-146.79	0.000500U	4.40	25.78
Thallium	0.0920	mg/L	0.100	92.00	68.93-151.79	0.00100U	3.00	22.45
Vanadium	0.144	mg/L	0.100	134.80	72.08-149.74	0.00950	1.47	21.04
Zinc	0.122	mg/L	0.100	94.00	51.79-149.89	0.0278	3.51	25.51

Quality Control Batch: 10270902

Analyst: PCW

Blank

Result	Units
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Nitrate(as N)

0.0100U

Laboratory Control Sample

Result	Units
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Nitrate(as N)

0.950

Matrix Spike

Result	Units	Spike	%REC	%REC Lim	Sample
	mg/L	1.00	95.00	90.00-110.00	



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Quality Control Batch: 10270902		Analyst: PCW			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim
Nitrate(as N)	4.76	mg/L	4.00	103.32	80.00-120.00
					Sample 0.627
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim
Nitrate(as N)	4.74	mg/L	4.00	102.81	80.00-120.00
					Sample 0.627
				RPD	RPD Lim
				0.42	20.00

Quality Control Batch: 10271210		Analyst: VLB			
Blank	Result	Units			
Chloride	4.00U	mg/L			
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Chloride	49.9	mg/L	50.0	99.84	90.00-110.00
Matrix Spike	Result	Units	Spike	%REC	%REC Lim
Chloride	50.8	mg/L	50.0	98.00	80.00-120.00
					Sample 1.84
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim
Chloride	51.2	mg/L	50.0	98.78	80.00-120.00
					Sample 1.84
				RPD	RPD Lim
				0.76	20.00

Quality Control Batch: 10271234		Analyst: CLS			
Blank	Result	Units			
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			



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Quality Control Batch: 10271234		Analyst: CLS	
Blank	Result	Units	
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	
cis-1,2-dichloroethene	0.200U	ug/L	
cis-1,3-Dichloropropene	0.500U	ug/L	
Dibromochloromethane	0.400U	ug/L	
Dibromomethane	0.500U	ug/L	
Ethylbenzene	0.500U	ug/L	
Methyl Iodide	1.00U	ug/L	
Methyl isobutyl ketone	1.00U	ug/L	
Methylene chloride	1.00U	ug/L	
o-dichlorobenzene	0.500U	ug/L	
Para-dichlorobenzene	0.500U	ug/L	
Styrene	0.500U	ug/L	
Tetrachloroethene	0.500U	ug/L	
Toluene	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	
Trichloroethene	0.500U	ug/L	
Trichlorofluoromethane	0.500U	ug/L	
Vinyl Acetate	10.0U	ug/L	
Vinyl chloride	0.500U	ug/L	
Xylenes	1.00U	ug/L	
1,1,1,2-Tetrachloroethane	0.500U	ug/L	
1,1,1-Trichloroethane	0.500U	ug/L	



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Blank	Result	Units
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)	0.500U	ug/L
2-Hexanone	0.500U	ug/L
Surr:Bromofluorobenzene	27.6	ug/L
Surr:Toluene-d8	29.2	ug/L
Surr:1,2-Dichloroethane-d4	26.9	ug/L

Laboratory Control Sample

	Result	Units	Spike	%REC	%REC Lim
Acetone	11.2	ug/L	10.0	111.80	38.88-162.52
Acrylonitrile	9.61	ug/L	10.0	96.10	40.32-146.67
Benzene	9.63	ug/L	10.0	96.30	69.86-134.08
Bromochloromethane	10.7	ug/L	10.0	107.00	73.37-125.03
Bromodichloromethane	10.1	ug/L	10.0	100.90	73.69-129.06
Bromoform	9.65	ug/L	10.0	96.50	66.50-120.60
Bromomethane	3.09	ug/L	10.0	30.90	52.06-149.03
Carbon Disulfide	9.79	ug/L	10.0	97.90	72.42-160.65
Carbon Tetrachloride	10.3	ug/L	10.0	103.30	69.24-130.87
Chlorobenzene	9.95	ug/L	10.0	99.50	76.12-122.63
Chloroethane	9.79	ug/L	10.0	97.90	54.48-148.84
Chloroform	9.41	ug/L	10.0	94.10	70.86-132.14
Chloromethane	11.6	ug/L	10.0	115.50	53.66-151.98
cis-1,2-dichloroethene	10.8	ug/L	10.0	107.80	72.17-127.13
cis-1,3-Dichloropropene	8.93	ug/L	10.0	89.30	72.26-128.63
Dibromochloromethane	9.69	ug/L	10.0	96.90	72.48-118.93



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Jan 7, 2015; Invoice: 254758

Quality Control Batch: 10271234 Analyst: CLS

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Dibromomethane	10.5	ug/L	10.0	104.50	76.53-123.91
Ethylbenzene	10.1	ug/L	10.0	101.20	70.56-124.95
Methyl Iodide	11.1	ug/L	10.0	111.40	55.71-163.66
Methyl isobutyl ketone	9.25	ug/L	10.0	92.50	50.12-132.13
Methylene chloride	10.1	ug/L	10.0	101.40	40.69-151.61
o-dichlorobenzene	10.4	ug/L	10.0	103.70	59.80-127.24
Para-dichlorobenzene	9.69	ug/L	10.0	96.90	59.80-127.16
Styrene	10.8	ug/L	10.0	107.60	64.43-121.79
Tetrachloroethene	11.8	ug/L	10.0	117.90	49.80-173.40
Toluene	9.60	ug/L	10.0	96.00	75.34-126.10
trans-1,2-dichloroethene	10.6	ug/L	10.0	105.50	69.34-133.94
trans-1,3-Dichloropropene	8.21	ug/L	10.0	82.10	69.36-124.24
Trichloroethene	11.6	ug/L	10.0	116.30	70.68-139.87
Trichlorofluoromethane	10.2	ug/L	10.0	101.70	44.99-156.60
Vinyl chloride	9.58	ug/L	10.0	95.80	56.53-148.31
Xylenes	30.9	ug/L	30.0	102.83	70.92-123.99
1,1,1,2-Tetrachloroethane	10.3	ug/L	10.0	103.10	72.36-126.72
1,1,1-Trichloroethane	10.3	ug/L	10.0	102.60	72.34-131.71
1,1,2,2-Tetrachloroethane	11.6	ug/L	10.0	116.00	73.03-130.21
1,1,2-Trichloroethane	9.22	ug/L	10.0	92.20	78.01-120.70
1,1-Dichloroethane	9.96	ug/L	10.0	99.60	68.89-133.90
1,1-Dichloroethene	10.5	ug/L	10.0	104.90	57.83-149.70
1,2-dichloroethane	9.85	ug/L	10.0	98.50	71.63-130.49
1,2-dichloropropane	9.78	ug/L	10.0	97.80	72.07-128.11
2-Butanone (MEK)	10.9	ug/L	10.0	109.00	59.03-164.47
2-Hexanone	6.68	ug/L	10.0	86.80	60.06-141.22
Surr:Bromofluorobenzene	27.6	ug/L	30.0	91.83	70.00-122.32
Surr:Toluene-d8	29.1	ug/L	30.0	96.90	80.00-120.00
Surr:1,2-Dichloroethane-d4	26.6	ug/L	30.0	88.63	77.68-129.99



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Jan 7, 2015; Invoice: 254758

Quality Control Batch: 10271234 Analyst: CLS

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Acetone	34.1	ug/L	20.0	170.70	46.01-156.32	5.00U
Acrylonitrile	22.5	ug/L	20.0	112.55	43.40-147.39	0.300U
Benzene	23.7	ug/L	20.0	118.30	74.48-134.24	0.500U
Bromochloromethane	24.4	ug/L	20.0	122.05	73.98-126.75	0.100U
Bromodichloromethane	23.6	ug/L	20.0	118.15	74.51-131.60	0.100U
Bromoform	23.5	ug/L	20.0	117.65	65.77-126.66	0.500U
Bromomethane	7.17	ug/L	20.0	35.85	45.79-154.07	0.500U
Carbon Tetrachloride	24.5	ug/L	20.0	122.60	69.71-134.11	0.500U
Chlorobenzene	23.3	ug/L	20.0	116.35	78.18-124.63	0.500U
Chloroethane	23.7	ug/L	20.0	118.45	57.96-148.61	0.500U
Chloroform	22.2	ug/L	20.0	111.15	67.52-139.02	0.500U
Chloromethane	27.9	ug/L	20.0	139.30	51.30-156.78	0.500U
cis-1,2-dichloroethene	25.6	ug/L	20.0	127.80	76.64-126.84	0.200U
cis-1,3-Dichloropropene	22.5	ug/L	20.0	112.45	67.26-137.96	0.500U
Dibromochloromethane	23.3	ug/L	20.0	116.40	73.00-123.23	0.400U
Dibromomethane	24.0	ug/L	20.0	119.85	73.11-128.50	0.500U
Ethylbenzene	24.6	ug/L	20.0	122.85	73.91-128.64	0.500U
Methyl iodide	23.3	ug/L	20.0	116.35	54.23-165.25	1.00U
Methyl isobutyl ketone	24.4	ug/L	20.0	121.90	57.64-133.07	1.00U
Methylene chloride	23.1	ug/L	20.0	115.60	50.29-142.90	1.00U
o-dichlorobenzene	23.2	ug/L	20.0	116.05	71.04-127.37	0.500U
Para-dichlorobenzene	21.7	ug/L	20.0	108.55	70.44-126.55	0.500U
Styrene	26.1	ug/L	20.0	130.60	68.01-124.71	0.500U
Tetrachloroethene	26.6	ug/L	20.0	132.85	49.77-180.05	0.500U
Toluene	24.5	ug/L	20.0	115.45	77.67-128.73	1.40
trans-1,2-dichloroethene	25.3	ug/L	20.0	126.40	71.14-135.42	0.500U
trans-1,3-Dichloropropene	20.8	ug/L	20.0	104.10	68.77-131.64	0.500U
Trichloroethene	27.3	ug/L	20.0	136.60	77.68-135.38	0.500U
Trichlorofluoromethane	24.6	ug/L	20.0	122.95	48.94-159.62	0.500U



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Quality Control Batch: 10271234 Analyst: CLS

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Vinyl chloride	23.6	ug/L	20.0	117.85	56.51-147.62	0.500U	11.46	38.47
Xylenes	74.4	ug/L	60.0	123.92	74.03-127.32	1.00U	3.43	24.85
1,1,1,2-Tetrachloroethane	23.3	ug/L	20.0	116.30	74.08-128.41	0.500U	3.81	18.98
1,1,1-Trichloroethane	24.8	ug/L	20.0	123.90	74.12-134.44	0.500U	8.74	15.45
1,1,2,2-Tetrachloroethane	27.1	ug/L	20.0	135.60	70.96-136.31	0.100U	4.63	14.47
1,1,2-Trichloroethane	21.4	ug/L	20.0	107.10	78.08-124.41	0.500U	4.16	18.89
1,1-Dichloroethane	23.2	ug/L	20.0	115.80	72.78-134.55	0.500U	25.76	22.97
1,1-Dichloroethene	25.9	ug/L	20.0	129.50	58.40-151.32	0.500U	2.85	18.68
1,2-dichloroethane	22.7	ug/L	20.0	113.65	71.53-134.48	0.500U	3.88	17.54
1,2-dichloropropane	23.3	ug/L	20.0	116.45	74.50-129.66	0.200U	2.79	24.25
2-Butanone (MEK)	28.2	ug/L	20.0	140.85	64.53-153.74	0.500U	2.22	17.36
2-Hexanone	21.0	ug/L	20.0	104.80	62.58-147.29	0.500U	14.61	24.58
Surr:Bromofluorobenzene	26.6	ug/L	30.0	88.60	53.82-151.16			
Surr:Toluene-d8	29.2	ug/L	30.0	97.27	88.05-109.81			
Surr:1,2-Dichloroethane-d4	26.8	ug/L	30.0	89.40	75.07-126.19			
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Acetone	30.4	ug/L	20.0	152.20	46.01-156.32	5.00U	11.46	38.47
Acrylonitrile	21.8	ug/L	20.0	108.75	43.40-147.39	0.300U	3.43	24.85
Benzene	24.6	ug/L	20.0	122.90	74.48-134.24	0.500U	3.81	18.98
Bromochloromethane	26.6	ug/L	20.0	133.20	73.98-126.75	0.100U	8.74	15.45
Bromodichloromethane	24.8	ug/L	20.0	123.75	74.51-131.60	0.100U	4.63	14.47
Bromoform	24.5	ug/L	20.0	122.65	65.77-126.66	0.500U	4.16	18.89
Bromomethane	9.29	ug/L	20.0	46.45	45.79-154.07	0.500U	25.76	22.97
Carbon Tetrachloride	25.2	ug/L	20.0	126.15	69.71-134.11	0.500U	2.85	18.68
Chlorobenzene	24.2	ug/L	20.0	120.95	78.18-124.63	0.500U	3.88	17.54
Chloroethane	24.4	ug/L	20.0	121.80	57.96-148.61	0.500U	2.79	24.25
Chloroform	22.7	ug/L	20.0	113.65	67.52-139.02	0.500U	2.22	17.36
Chloromethane	32.3	ug/L	20.0	161.25	51.30-156.78	0.500U	14.61	24.58



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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 REGIONAL LAN

Date Sampled: Dec 22, 2014

Jan 7, 2015; Invoice: 254758

Quality Control Batch: 10271234 Analyst: CLS

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
cis-1,2-dichloroethene	27.0	ug/L	20.0	135.15	76.64-126.84	0.200U	5.59	19.01
cis-1,3-Dichloropropene	23.6	ug/L	20.0	117.80	67.26-137.96	0.500U	4.65	17.79
Dibromochloromethane	24.9	ug/L	20.0	124.70	73.00-123.23	0.400U	6.89	17.16
Dibromomethane	24.8	ug/L	20.0	124.05	73.11-128.50	0.500U	3.44	14.33
Ethylbenzene	25.5	ug/L	20.0	127.55	73.91-128.64	0.500U	3.75	17.78
Methyl iodide	31.6	ug/L	20.0	157.75	54.23-165.25	1.00U	30.21	24.15
Methyl isobutyl ketone	23.7	ug/L	20.0	118.30	57.64-133.07	1.00U	3.00	23.20
Methylene chloride	24.5	ug/L	20.0	122.45	50.29-142.90	1.00U	5.76	22.29
o-dichlorobenzene	24.7	ug/L	20.0	123.55	71.04-127.37	0.500U	6.26	17.00
Para-dichlorobenzene	23.0	ug/L	20.0	115.05	70.44-126.55	0.500U	5.81	14.84
Styrene	27.5	ug/L	20.0	137.40	68.01-124.71	0.500U	5.07	17.03
Tetrachloroethene	27.0	ug/L	20.0	134.90	49.77-180.05	0.500U	1.53	27.05
Toluene	25.5	ug/L	20.0	120.30	77.67-128.73	1.40	3.88	18.11
trans-1,2-dichloroethene	26.5	ug/L	20.0	132.70	71.14-135.42	0.500U	4.86	19.23
trans-1,3-Dichloropropene	21.9	ug/L	20.0	109.50	68.77-131.64	0.500U	5.06	17.05
Trichloroethene	29.2	ug/L	20.0	145.75	77.68-135.38	0.500U	6.48	16.98
Trichlorofluoromethane	25.1	ug/L	20.0	125.65	48.94-159.62	0.500U	2.17	24.90
Vinyl chloride	24.8	ug/L	20.0	124.00	56.51-147.62	0.500U	5.09	21.53
Xylenes	77.7	ug/L	60.0	129.45	74.03-127.32	1.00U	4.37	18.64
1,1,1,2-Tetrachloroethane	25.2	ug/L	20.0	126.10	74.08-128.41	0.500U	8.09	18.35
1,1,1-Trichloroethane	25.7	ug/L	20.0	128.70	74.12-134.44	0.500U	3.80	19.03
1,1,2,2-Tetrachloroethane	26.2	ug/L	20.0	130.90	70.96-136.31	0.100U	3.53	18.50
1,1,2-Trichloroethane	22.2	ug/L	20.0	111.10	78.08-124.41	0.500U	3.67	15.94
1,1-Dichloroethane	24.3	ug/L	20.0	121.35	72.78-134.55	0.500U	4.68	16.44
1,1-Dichloroethene	26.5	ug/L	20.0	132.45	58.40-151.32	0.500U	2.25	23.15
1,2-dichloroethane	23.5	ug/L	20.0	117.55	71.53-134.48	0.500U	3.37	15.32
1,2-dichloropropane	24.4	ug/L	20.0	122.10	74.50-129.66	0.200U	4.74	16.56
2-Butanone (MEK)	20.9	ug/L	20.0	104.25	64.53-153.74	0.500U	29.87	32.53
2-Hexanone	19.9	ug/L	20.0	99.25	62.58-147.29	0.500U	5.44	25.26



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Tampa, FL 33607

PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN

Date Sampled: Dec 22, 2014

Jan 7, 2015; Invoice: 254758

Quality Control Batch: 10271234

Analyst: CLS

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Surr:Bromofluorobenzene	26.9	ug/L	30.0	89.50	53.82-151.16		1.01	13.51
Surr:Toluene-d8	29.1	ug/L	30.0	96.97	88.05-109.81		0.31	7.44
Surr:1,2-Dichloroethane-d4	26.2	ug/L	30.0	87.17	75.07-126.19		2.53	8.75

Quality Control Batch: 10271237

Analyst: EVB

Blank	Result	Units
Iron	0.0100U	mg/L
Sodium	0.500U	mg/L

Laboratory Control Sample

Iron	Result	Units
	5.39	mg/L
Sodium	Result	Units
	5.29	mg/L

Matrix Spike

Iron	Result	Units
	13.9	mg/L
Sodium	Result	Units
	133	mg/L

Matrix Spike Duplicate

Iron	Result	Units
	13.6	mg/L
Sodium	Result	Units
	130	mg/L

Quality Control Batch: 10271293

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

Laboratory Control Sample

1,2,3-Trichloropropane	Result	Units
	0.306	ug/L

%REC 122.44
%REC Lim 80.00-120.00

Sample 0.250
RPD 2.74

RPD Lim 19.53
19.20



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RPD Lim
20.00
16.28
10.23



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PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 22, 2014
Jan 7, 2015; Invoice: 254758

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

Some of the metals Matrix Spike recoveries are outside of control limits but the sample spiked is not from this sample delivery group. The LCS validates the 10 sample batch.

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 .02 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

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☐ Flowers Chemical Labs-South

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Client ATKINS TAMPA Project Name HARDIE CO LANDFILL P.O.#
Address Client Contact FAX

FCL Project Manager E-MAIL
Requested Due Date OR Vehicle Surcharge \$ Sampling Fee \$
10 Day Standard Pick-Up Fee \$

Phone
Sampled By (PRINT) RAY CASTRO
Sampler Signature Raymond Castro Date Sampled

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	Nb ₂ S ₂ O ₈						
1	MW-1	2/22/14	15:35	GW	254758GW1											7
2	MW-2	2/22/14	13:54													7
3	MW-4	2/22/14	14:36													7
4	MW-10R	2/23/14	9:47													7
5	MW-11	2/23/14	11:34													7
6	MW-12R	2/23/14	8:13													7
7	MW-13	2/23/14	7:33													7
8	MW-14	2/22/14	16:18													7
9																
10																

Relinquished By / Affiliation Raymond Castro Date 2/23/14 Time 14:44
Accepted By / Affiliation Date 14/23/14 Time 14:42

FINANCE CHARGES APPLIED TO PAST DUE INVOICES

• WHITE - Lab Copy - To Be Scanned

• YELLOW - Client Copy



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PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 23, 2014
Jan 8, 2015; Invoice: 254757

Report Summary

Date Received: Dec 23, 2014

FCL Project Manager: June S. Flowers

Laboratory #	Sample Description	Analysis	Chemist	Location	Sample Matrix
254757SW1	SW-2/21062	EPA245.1	EVB	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.4	VLB	Main Lab	
		EPA410.4	CTH	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CLS	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	TRB	Main Lab	
		SM2340 B	EVB	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	PLB	Main Lab	
		SM5210 B	CCP	Main Lab	
		SM5310 C	PCW	Main Lab	
		SM9222 D	TRB	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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PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN

Date Sampled: Dec 23, 2014

Jan 8, 2015; Invoice: 254757

Analysis Report

Lab #: 254757SW1 Sampled: 12/23/14 11:57 AM Desc: SW-2/21062

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Total Nitrogen(as N)	1.27	mg/L	0	1.00	0.0100	10270424	TotNit	17778-88-0	12/23/14 11:31 AM
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0200	0.0400	10270424	EPA353.2	14797-55-8	12/23/14 11:31 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10270424	EPA353.2	14797-65-0	12/23/14 11:31 AM
Chlorophyll a	1.58 l	mg/m3	1.00	1.00	2.00	10270542	SM10200 H	479-61-8	12/23/14 11:31 AM
TSS	2.13	mg/L	1.00	1.00	2.00	10270579	SM2540 D	E1642818	12/26/14 11:31 AM
TDS	344	mg/L	1.00	2.50	5.00	10270607	SM2540 C	10-33-3	12/24/14 11:31 AM
Fecal Coliform	12.0	cfu/100mL	1.00	1.00	1.00	10270661	SM9222 D	E761792	12/23/14 02:30 PM
Mercury	0.0000500 U	mg/L	1.00	0.0000500	0.000100	10270670	EPA245.1	7439-97-6	12/24/14 08:00 AM
BOD5day	2.29	mg/L	1.00	2.00	2.00	10270763	SM5210 B	E1640606	12/29/14 11:31 AM
Iron	0.400	mg/L	1.00	0.0100	0.0200	10270788	EPA6010	7439-89-6	12/29/14 11:31 AM
Total Hardness (as CaCO3)	236	mg/L	1.00	0.100	0.200	10270790	SM2340 B	40-11-9	12/29/14 11:31 AM
Aluminum	0.0186 l	mg/L	1.00	0.0100	0.0200	10270847	EPA6020	7429-90-5	12/29/14 11:31 AM
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10270847	EPA6020	7440-36-0	12/29/14 11:31 AM
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-38-2	12/29/14 11:31 AM
Barium	0.0106	mg/L	1.00	0.00200	0.00400	10270847	EPA6020	7440-39-3	12/29/14 11:31 AM
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10270847	EPA6020	7440-41-7	12/29/14 11:31 AM
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-43-9	12/29/14 11:31 AM
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-47-3	12/29/14 11:31 AM
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-48-4	12/29/14 11:31 AM
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-50-8	12/29/14 11:31 AM
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7439-92-1	12/29/14 11:31 AM
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-02-0	12/29/14 11:31 AM
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10270847	EPA6020	7782-49-2	12/29/14 11:31 AM
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10270847	EPA6020	7440-22-4	12/29/14 11:31 AM
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-28-0	12/29/14 11:31 AM
Vanadium	0.00100 U	mg/L	1.00	0.00100	0.00200	10270847	EPA6020	7440-62-2	12/29/14 11:31 AM
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10270847	EPA6020	7440-66-6	12/29/14 11:31 AM



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PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN

Date Sampled: Dec 23, 2014

Jan 8, 2015; Invoice: 254757

Lab #: 254757SW1 Sampled: 12/23/14 11:57 AM Desc: SW-2/21062

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Chemical Oxygen Demand	61.5	mg/L	1.00	20.0	40.0	10270939	EPA410.4	C-004	12/31/14
Unionized NH3(as N)	0.00143	mg/L	1.00	0.000100	0.000200	10270971	FDEP DEP-SOF		12/31/14
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	630-20-6	12/31/14
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	71-55-6	12/31/14
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10271228	EPA8260	79-34-5	12/31/14
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	79-00-5	12/31/14
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	75-34-3	12/31/14
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	75-35-4	12/31/14
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10271228	EPA8260	107-06-2	12/31/14
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10271228	EPA8260	78-87-5	12/31/14
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	78-93-3	12/31/14
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	591-78-6	12/31/14
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10271228	EPA8260	67-64-1	12/31/14
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10271228	EPA8260	107-13-1	12/31/14
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	71-43-2	12/31/14
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10271228	EPA8260	074-97-5	12/31/14
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10271228	EPA8260	75-27-4	12/31/14
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	75-25-2	12/31/14
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	74-83-9	12/31/14
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10271228	EPA8260	75-15-0	12/31/14
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	56-23-5	12/31/14
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	108-90-7	12/31/14
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	75-00-3	12/31/14
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	67-66-3	12/31/14
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	74-87-3	12/31/14
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10271228	EPA8260	124-48-1	12/31/14
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	074-95-3	12/31/14
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	100-41-4	12/31/14
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10271228	EPA8260	074-88-4	12/31/14



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

PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN

Date Sampled: Dec 23, 2014

Jan 8, 2015; Invoice: 254757

Lab #: 254757SW1 Sampled: 12/23/14 11:57 AM Desc: SW-2/21062

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	10271228	EPA8260	108-10-1	12/31/14
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10271228	EPA8260	75-09-2	12/31/14
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	106-46-7	12/31/14
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	100-42-5	12/31/14
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	127-18-4	12/31/14
Toluene	1.40	ug/L	1.00	0.500	1.00	10271228	EPA8260	108-88-3	12/31/14
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	79-01-6	12/31/14
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	75-69-4	12/31/14
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	20.0	10271228	EPA8260	108-05-4	12/31/14
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	75-01-4	12/31/14
Xylenes	1.00 U	ug/L	1.00	1.00	2.00	10271228	EPA8260	1330-20-7	12/31/14
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10271228	EPA8260	156-59-2	12/31/14
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	10061-01-5	12/31/14
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	95-50-1	12/31/14
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	156-60-5	12/31/14
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10271228	EPA8260	10061-02-6	12/31/14
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10271228	EPA8260	110-57-6	12/31/14
Surr:1,2-Dichloroethane-d4 (85-128%)	88.47%		1.00	0.0100	0.0100	10271228	EPA8260		12/31/14
Surr:Bromofluorobenzene (70-123%)	91.57%		1.00	1.00	1.00	10271228	EPA8260	460-00-4	12/31/14
Surr:Toluene-d8 (80-120%)	96.13%		1.00	0.0100	0.0100	10271228	EPA8260		12/31/14
1,2,3-Trichloropropane	0.0198 U	ug/L	0.991	0.0198	0.0397	10271292	EPA8011	096-18-4	12/30/14
1,2-Dibromoethane (EDB)	0.00991 U	ug/L	0.991	0.00991	0.0198	10271292	EPA8011	106-93-4	12/30/14
1,2-dibromo-3-chloropropane	0.0198 U	ug/L	0.991	0.0198	0.0397	10271292	EPA8011	96-12-8	12/30/14
Field DO	1.50	mg/L	1.00	0.100	0.100	10271357	FT1500		12/23/14
TOC	20.9	mg/L	1.00	1.00	2.00	10271380	SM5310 C	E701250	01/05/15
Field pH (units)	6.23	pH	1.00	0.0100	0.0200	10271385	FT1100	C006	12/23/14
Field Conductivity	494	umhos/cm	1.00	0.100	0.100	10271385	FT1200		12/23/14
Field Temp. (C)	18.2	oC	1.00	0.100	0.100	10271385	FT1400		12/23/14
Field Turbidity	3.50	NTU	1.00	0.100	0.100	10271385	FT1600		12/23/14



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PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN

Date Sampled: Dec 23, 2014

Jan 8, 2015; Invoice: 254757

Lab #: 254757SW1	Sampled: 12/23/14 11:57 AM	Desc: SW-2/21062	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Parameter	Result	Units	1.00	0.0400	0.0400	10271461	EPA365.4	7723-14-0	01/06/15
Total Phosphorus(as P)	0.645	mg/L	1.00	0.200	0.400	10271465	EPA351.2	7727-37-9	01/06/15
TKN(as N)	1.24	mg/L							



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Quality Report

Quality Control Batch: 10270424		Analyst: PCW	
Blank	Result	Units	
Nitrate(as N)	0.0100U	mg/L	
Nitrite(as N)	0.0200U	mg/L	
Laboratory Control Sample			
Nitrate(as N)	Result	Units	%REC
Nitrite(as N)	1.02	mg/L	102.00
	1.02	mg/L	102.00
			%REC Lim
			90.00-110.00
			90.00-110.00
Matrix Spike			
Nitrate(as N)	Result	Units	%REC
Nitrite(as N)	8.13	mg/L	113.50
	3.84	mg/L	96.00
			%REC Lim
			80.00-120.00
			80.00-120.00
Matrix Spike Duplicate			
Nitrate(as N)	Result	Units	%REC
Nitrite(as N)	8.07	mg/L	112.00
	3.85	mg/L	96.25
			%REC Lim
			80.00-120.00
			80.00-120.00
			RPD
			0.74
			0.26
			RPD Lim
			20.00
			20.00

Quality Control Batch: 10270542		Analyst: TRB	
Blank	Result	Units	
Chlorophyll a	1.00U	mg/m3	

Quality Control Batch: 10270579		Analyst: PLB	
Blank	Result	Units	
TSS	1.00U	mg/L	

Quality Control Batch: 10270607		Analyst: PLB	
Blank	Result	Units	



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Quality Control Batch: 10270607

Analyst: PLB	
Result	Units
2.50U	mg/L

Blank
TDS

Quality Control Batch: 10270670

Analyst: EVB	
Result	Units
8.00E-7	mg/L

Blank
Mercury

Laboratory Control Sample

Result	Units
0.0000287	mg/L

%REC Lim
80.00-120.00

%REC
95.67

Spike
0.0000300

Matrix Spike
Mercury

Result	Units
0.0000685	mg/L

%REC
114.17

Spike
0.0000600

%REC Lim
80.00-120.00

Sample
0.00000500U

Matrix Spike Duplicate
Mercury

Result	Units
0.0000686	mg/L

%REC
114.33

Spike
0.0000600

%REC Lim
80.00-120.00

Sample
0.00000500U

RPD Lim
20.00

Quality Control Batch: 10270763

Analyst: CCP	
Result	Units
2.00U	mg/L

Blank
BOD5day

Laboratory Control Sample

Result	Units
186	mg/L

%REC
93.74

Spike
198

%REC Lim
84.50-115.40

Quality Control Batch: 10270847

Analyst: EVB	
Result	Units

Blank



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Jan 8, 2015; Invoice: 254757

Quality Control Batch: 10270847

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	0.217	mg/L	0.200	108.35	78.68-126.86
Antimony	0.214	mg/L	0.200	106.90	76.70-120.39
Arsenic	0.203	mg/L	0.200	101.30	81.09-119.32
Barium	0.214	mg/L	0.200	107.10	84.59-125.11
Beryllium	0.206	mg/L	0.200	103.20	85.69-132.22
Cadmium	0.204	mg/L	0.200	102.20	84.66-121.81
Chromium	0.208	mg/L	0.200	103.95	87.00-122.96
Cobalt	0.229	mg/L	0.200	114.40	78.66-126.98
Copper	0.191	mg/L	0.200	95.35	84.08-122.69
Lead	0.222	mg/L	0.200	110.75	86.91-124.18
Nickel	0.204	mg/L	0.200	101.85	77.31-126.31



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Date Sampled: Dec 23, 2014
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Quality Control Batch: 10270847 Analyst: EVB

Laboratory Control Sample

	Result	Units	Spike	%REC	%REC Lim
Selenium	0.197	mg/L	0.200	98.25	75.98-121.42
Silver	0.188	mg/L	0.200	93.85	79.76-119.92
Thallium	0.215	mg/L	0.200	107.70	80.95-125.84
Vanadium	0.204	mg/L	0.200	102.15	78.51-125.51
Zinc	0.198	mg/L	0.200	99.20	79.82-122.80

Matrix Spike

	Result	Units	Spike	%REC	%REC Lim	Sample
Aluminum	0.366	mg/L	0.100	141.00	42.91-164.06	0.225
Antimony	0.0709	mg/L	0.100	70.90	73.48-142.27	0.00200U
Arsenic	0.138	mg/L	0.100	70.20	73.05-140.45	0.0675
Barium	0.182	mg/L	0.100	109.80	70.68-156.87	0.0721
Beryllium	0.137	mg/L	0.100	136.70	89.27-154.67	0.000500U
Cadmium	0.0704	mg/L	0.100	70.40	76.87-137.80	0.00100U
Chromium	0.0553	mg/L	0.100	55.30	67.91-144.29	0.00100U
Cobalt	0.133	mg/L	0.100	132.50	68.92-150.01	0.00100U
Copper	0.0551	mg/L	0.100	55.10	57.64-148.77	0.00100U
Lead	0.0358	mg/L	0.100	35.80	69.09-150.83	0.00100U
Nickel	0.177	mg/L	0.100	114.30	58.01-145.27	0.0627
Silver	0.0642	mg/L	0.100	64.20	48.94-146.79	0.000500U
Thallium	0.0384	mg/L	0.100	38.40	68.93-151.79	0.00100U
Vanadium	0.226	mg/L	0.100	217.70	72.08-149.74	0.00870
Zinc	0.0873	mg/L	0.100	75.80	51.79-149.89	0.0115

Matrix Spike Duplicate

	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Aluminum	0.379	mg/L	0.100	154.00	42.91-164.06	0.225	3.49	28.86
Antimony	0.0702	mg/L	0.100	70.20	73.48-142.27	0.00200U	0.99	23.91
Arsenic	0.135	mg/L	0.100	67.20	73.05-140.45	0.0675	2.20	26.42
Barium	0.185	mg/L	0.100	112.60	70.68-156.87	0.0721	1.53	20.91
Beryllium	0.130	mg/L	0.100	130.40	89.27-154.67	0.000500U	4.72	22.45



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PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 23, 2014
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Quality Control Batch: 10271228		Analyst: CLS
Blank	Result	Units
Acetone	5.00U	ug/L
Acrylonitrile	0.300U	ug/L
Benzene	0.500U	ug/L
Bromochloromethane	0.100U	ug/L
Bromodichloromethane	0.100U	ug/L
Bromoform	0.500U	ug/L



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Date Sampled: Dec 23, 2014

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Quality Control Batch: 10271228

Analyst: CLS

Blank	Result	Units
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
cis-1,2-dichloroethene	0.200U	ug/L
cis-1,3-Dichloropropene	0.500U	ug/L
Dibromochloromethane	0.400U	ug/L
Dibromomethane	0.500U	ug/L
Ethylbenzene	0.500U	ug/L
Methyl Iodide	1.00U	ug/L
Methyl isobutyl ketone	1.00U	ug/L
Methylene chloride	1.00U	ug/L
o-dichlorobenzene	0.500U	ug/L
Para-dichlorobenzene	0.500U	ug/L
Styrene	0.500U	ug/L
Tetrachloroethene	0.500U	ug/L
Toluene	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
Trichloroethene	0.500U	ug/L
Trichlorofluoromethane	0.500U	ug/L
Vinyl Acetate	10.0U	ug/L
Vinyl chloride	0.500U	ug/L
Xylenes	1.00U	ug/L
1,1,1,2-Tetrachloroethane	0.500U	ug/L



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Quality Control Batch: 10271228

Analyst: CLS

Blank	Result	Units
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)	0.500U	ug/L
2-Hexanone	0.500U	ug/L
Surr:Bromofluorobenzene	27.6	ug/L
Surr:Toluene-d8	29.2	ug/L
Surr:1,2-Dichloroethane-d4	26.9	ug/L

Laboratory Control Sample

	Result	Units	Spike	%REC	%REC Lim
Acetone	11.2	ug/L	10.0	111.80	37.64-172.70
Acrylonitrile	9.61	ug/L	10.0	96.10	39.47-149.46
Benzene	9.63	ug/L	10.0	96.30	75.24-125.65
Bromochloromethane	10.7	ug/L	10.0	107.00	71.67-126.15
Bromodichloromethane	10.1	ug/L	10.0	100.90	74.61-125.27
Bromoform	9.65	ug/L	10.0	96.50	66.51-125.59
Bromomethane	3.09	ug/L	10.0	30.90	57.28-153.27
Carbon Disulfide	9.79	ug/L	10.0	97.90	81.01-141.09
Carbon Tetrachloride	10.3	ug/L	10.0	103.30	68.14-132.66
Chlorobenzene	9.95	ug/L	10.0	99.50	77.69-119.42
Chloroethane	9.79	ug/L	10.0	97.90	63.56-150.96
Chloroform	9.41	ug/L	10.0	94.10	67.64-138.63
Chloromethane	11.6	ug/L	10.0	115.50	55.12-156.31
cis-1,2-dichloroethene	10.8	ug/L	10.0	107.80	73.06-123.88
cis-1,3-Dichloropropene	8.93	ug/L	10.0	89.30	80.68-120.98



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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 REGIONAL LAN

Date Sampled: Dec 23, 2014

Jan 8, 2015; Invoice: 254757

Quality Control Batch: 10271228

Analyst: CLS

Laboratory Control Sample

	Result	Units	Spike	%REC	%REC Lim
Dibromochloromethane	9.69	ug/L	10.0	96.90	65.65-126.41
Dibromomethane	10.5	ug/L	10.0	104.50	72.30-129.36
Ethylbenzene	10.1	ug/L	10.0	101.20	70.93-123.57
Methyl Iodide	11.1	ug/L	10.0	111.40	54.93-164.95
Methyl isobutyl ketone	9.25	ug/L	10.0	92.50	37.93-142.74
Methylene chloride	10.1	ug/L	10.0	101.40	16.86-166.48
o-dichlorobenzene	10.4	ug/L	10.0	103.70	52.90-132.47
Para-dichlorobenzene	9.69	ug/L	10.0	96.90	50.96-133.39
Styrene	10.8	ug/L	10.0	107.60	71.72-114.32
Tetrachloroethene	11.8	ug/L	10.0	117.90	80.48-158.29
Toluene	9.60	ug/L	10.0	96.00	77.18-121.98
trans-1,2-dichloroethene	10.6	ug/L	10.0	105.50	68.03-139.74
trans-1,3-Dichloropropene	8.21	ug/L	10.0	82.10	69.60-126.28
Trichloroethene	11.6	ug/L	10.0	116.30	75.98-128.22
Trichlorofluoromethane	10.2	ug/L	10.0	101.70	44.32-160.41
Vinyl chloride	9.58	ug/L	10.0	95.80	62.38-148.09
Xylenes	30.9	ug/L	30.0	102.83	73.15-120.44
1,1,1,2-Tetrachloroethane	10.3	ug/L	10.0	103.10	65.75-129.14
1,1,1-Trichloroethane	10.3	ug/L	10.0	102.60	71.54-134.27
1,1,2,2-Tetrachloroethane	11.6	ug/L	10.0	116.00	70.58-134.42
1,1,2-Trichloroethane	9.22	ug/L	10.0	92.20	78.94-122.62
1,1-Dichloroethane	9.96	ug/L	10.0	99.60	64.33-137.81
1,1-Dichloroethene	10.5	ug/L	10.0	104.90	58.65-144.80
1,2-dichloroethane	9.85	ug/L	10.0	98.50	70.20-131.56
1,2-dichloropropane	9.78	ug/L	10.0	97.80	70.79-128.96
2-Butanone (MEK)	10.9	ug/L	10.0	109.00	58.73-168.19
2-Hexanone	8.68	ug/L	10.0	86.80	61.33-136.93
Surr:Bromofluorobenzene	27.6	ug/L	30.0	91.83	70.00-123.15
Surr:Toluene-d8	29.1	ug/L	30.0	96.90	80.00-120.00

FLDOH: E83018 (Main Lab)

FLDOH: E86562 (South Lab)

FLDOH: E82405 (North Lab)

NJDEP: FL015



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Quality Control Batch: 10271228

Analyst: CLS

Laboratory Control Sample

Surr: 1,2-Dichloroethane-d4

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Acetone	34.1	ug/L	20.0	170.70	40.10-159.52	5.00U
Acrylonitrile	22.5	ug/L	20.0	112.55	46.99-145.24	0.300U
Benzene	23.7	ug/L	20.0	118.30	61.27-139.58	0.500U
Bromochloromethane	24.4	ug/L	20.0	122.05	63.83-134.84	0.100U
Bromodichloromethane	23.6	ug/L	20.0	118.15	72.16-127.31	0.100U
Bromoform	23.5	ug/L	20.0	117.65	72.62-122.79	0.500U
Bromomethane	7.17	ug/L	20.0	35.85	39.13-160.98	0.500U
Carbon Tetrachloride	24.5	ug/L	20.0	122.60	62.14-139.48	0.500U
Chlorobenzene	23.3	ug/L	20.0	116.35	73.37-125.85	0.500U
Chloroethane	23.7	ug/L	20.0	118.45	63.53-147.18	0.500U
Chloroform	22.2	ug/L	20.0	111.15	57.73-145.87	0.500U
Chloromethane	27.9	ug/L	20.0	139.30	53.83-155.48	0.500U
cis-1,2-dichloroethene	25.6	ug/L	20.0	127.80	67.74-134.67	0.200U
cis-1,3-Dichloropropene	22.5	ug/L	20.0	112.45	72.35-130.46	0.500U
Dibromochloromethane	23.3	ug/L	20.0	116.40	69.54-125.33	0.400U
Dibromomethane	24.0	ug/L	20.0	119.85	68.14-132.53	0.500U
Ethylbenzene	24.6	ug/L	20.0	122.85	68.03-130.86	0.500U
Methyl Iodide	23.3	ug/L	20.0	116.35	44.68-170.45	1.00U
Methyl isobutyl ketone	24.4	ug/L	20.0	121.90	45.04-143.51	1.00U
Methylene chloride	23.1	ug/L	20.0	115.60	29.60-161.21	1.00U
o-dichlorobenzene	23.2	ug/L	20.0	116.05	66.77-127.02	0.500U
Para-dichlorobenzene	21.7	ug/L	20.0	108.55	65.38-125.99	0.500U
Styrene	26.1	ug/L	20.0	130.60	70.76-118.37	0.500U
Tetrachloroethene	26.6	ug/L	20.0	132.85	67.64-171.93	0.500U
Toluene	24.5	ug/L	20.0	115.45	65.14-135.51	1.40
trans-1,2-dichloroethene	25.3	ug/L	20.0	126.40	68.02-136.55	0.500U



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Quality Control Batch: 10271228 Analyst: CLS

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
trans-1,3-Dichloropropene	20.8	ug/L	20.0	104.10	70.04-129.81	0.500U	5.00U	38.61
Trichloroethene	27.3	ug/L	20.0	136.60	71.89-132.31	0.500U	0.300U	36.26
Trichlorofluoromethane	24.6	ug/L	20.0	122.95	44.48-169.12	0.500U	0.500U	25.12
Vinyl chloride	23.6	ug/L	20.0	117.85	58.87-147.20	0.500U	0.100U	26.51
Xylenes	74.4	ug/L	60.0	123.92	60.84-135.66	1.00U	0.500U	25.17
1,1,1,2-Tetrachloroethane	23.3	ug/L	20.0	116.30	62.33-135.40	0.500U	0.500U	29.13
1,1,1-Trichloroethane	24.8	ug/L	20.0	123.90	65.25-139.87	0.500U	0.500U	25.76
1,1,2,2-Tetrachloroethane	27.1	ug/L	20.0	135.60	66.18-136.57	0.100U	0.500U	28.42
1,1,2-Trichloroethane	21.4	ug/L	20.0	107.10	74.00-129.28	0.500U	0.500U	2.85
1,1-Dichloroethane	23.2	ug/L	20.0	115.80	60.45-145.88	0.500U	0.500U	27.33
1,1-Dichloroethene	25.9	ug/L	20.0	129.50	48.95-154.90	0.500U	0.500U	
1,2-dichloroethane	22.7	ug/L	20.0	113.65	63.54-140.44	0.500U	0.200U	
1,2-dichloropropane	23.3	ug/L	20.0	116.45	69.00-134.27	0.200U	0.500U	
2-Butanone (MEK)	28.2	ug/L	20.0	140.85	74.66-142.29	0.500U	0.500U	
2-Hexanone	21.0	ug/L	20.0	104.80	59.08-147.93	0.500U	0.500U	
Surr:Bromofluorobenzene	26.6	ug/L	30.0	88.60	50.75-155.35			
Surr:Toluene-d8	29.2	ug/L	30.0	97.27	90.53-109.14			
Surr:1,2-Dichloroethane-d4	26.8	ug/L	30.0	89.40	82.85-121.80			
Matrix Spike Duplicate								
Acetone	30.4	ug/L	20.0	152.20	40.10-159.52	5.00U	5.00U	11.46
Acrylonitrile	21.8	ug/L	20.0	108.75	46.99-145.24	0.300U	0.300U	3.43
Benzene	24.6	ug/L	20.0	122.90	61.27-139.58	0.500U	0.500U	3.81
Bromochloromethane	26.6	ug/L	20.0	133.20	63.83-134.84	0.100U	0.100U	8.74
Bromodichloromethane	24.8	ug/L	20.0	123.75	72.16-127.31	0.100U	0.100U	4.63
Bromoform	24.5	ug/L	20.0	122.65	72.62-122.79	0.500U	0.500U	4.16
Bromomethane	9.29	ug/L	20.0	46.45	39.13-160.98	0.500U	0.500U	25.76
Carbon Tetrachloride	25.2	ug/L	20.0	126.15	62.14-139.48	0.500U	0.500U	2.85
Chlorobenzene	24.2	ug/L	20.0	120.95	73.37-125.85	0.500U	0.500U	3.88



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Quality Control Batch: 10271228

Analyst: CLS

Matrix Spike Duplicate

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Chloroethane	24.4	ug/L	20.0	121.80	63.53-147.18	0.500U	2.79	35.69
Chloroform	22.7	ug/L	20.0	113.65	57.73-145.87	0.500U	2.22	28.80
Chloromethane	32.3	ug/L	20.0	161.25	53.83-155.48	0.500U	14.61	29.46
cis-1,2-dichloroethene	27.0	ug/L	20.0	135.15	67.74-134.67	0.200U	5.59	28.79
cis-1,3-Dichloropropene	23.6	ug/L	20.0	117.80	72.35-130.46	0.500U	4.65	25.83
Dibromochloromethane	24.9	ug/L	20.0	124.70	69.54-125.33	0.400U	6.89	28.11
Dibromomethane	24.8	ug/L	20.0	124.05	68.14-132.53	0.500U	3.44	23.67
Ethylbenzene	25.5	ug/L	20.0	127.55	68.03-130.86	0.500U	3.75	25.52
Methyl Iodide	31.6	ug/L	20.0	157.75	44.68-170.45	1.00U	30.21	27.56
Methyl isobutyl ketone	23.7	ug/L	20.0	118.30	45.04-143.51	1.00U	3.00	22.66
Methylene chloride	24.5	ug/L	20.0	122.45	29.60-161.21	1.00U	5.76	33.74
o-dichlorobenzene	24.7	ug/L	20.0	123.55	66.77-127.02	0.500U	6.26	28.62
Para-dichlorobenzene	23.0	ug/L	20.0	115.05	65.38-125.99	0.500U	5.81	27.08
Styrene	27.5	ug/L	20.0	137.40	70.76-118.37	0.500U	5.07	28.56
Tetrachloroethene	27.0	ug/L	20.0	134.90	67.64-171.93	0.500U	1.53	32.62
Toluene	25.5	ug/L	20.0	120.30	65.14-135.51	1.40	3.88	23.01
trans-1,2-dichloroethene	26.5	ug/L	20.0	132.70	68.02-136.55	0.500U	4.86	29.38
trans-1,3,-Dichloropropene	21.9	ug/L	20.0	109.50	70.04-129.81	0.500U	5.06	30.36
Trichloroethene	29.2	ug/L	20.0	145.75	71.89-132.31	0.500U	6.48	25.29
Trichlorofluoromethane	25.1	ug/L	20.0	125.65	44.48-169.12	0.500U	2.17	34.97
Vinyl chloride	24.8	ug/L	20.0	124.00	58.87-147.20	0.500U	5.09	27.28
Xylenes	77.7	ug/L	60.0	129.45	60.84-135.66	1.00U	4.37	24.37
1,1,1,2-Tetrachloroethane	25.2	ug/L	20.0	126.10	62.33-135.40	0.500U	8.09	29.26
1,1,1-Trichloroethane	25.7	ug/L	20.0	128.70	65.25-139.87	0.500U	3.80	28.50
1,1,2,2-Tetrachloroethane	26.2	ug/L	20.0	130.90	66.18-136.57	0.100U	3.53	30.72
1,1,2-Trichloroethane	22.2	ug/L	20.0	111.10	74.00-129.28	0.500U	3.67	27.63
1,1-Dichloroethane	24.3	ug/L	20.0	121.35	60.45-145.88	0.500U	4.68	28.39
1,1-Dichloroethene	26.5	ug/L	20.0	132.45	48.95-154.90	0.500U	2.25	29.91
1,2-dichloroethane	23.5	ug/L	20.0	117.55	63.54-140.44	0.500U	3.37	26.67



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Quality Control Batch: 10271228		Analyst: CLS					
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD
1,2-dichloropropane	24.4	ug/L	20.0	122.10	69.00-134.27	0.200U	4.74
2-Butanone (MEK)	20.9	ug/L	20.0	104.25	74.66-142.29	0.500U	29.87
2-Hexanone	19.9	ug/L	20.0	99.25	59.08-147.93	0.500U	5.44
Surr:Bromofluorobenzene	26.9	ug/L	30.0	89.50	50.75-155.35		1.01
Surr:Toluene-d8	29.1	ug/L	30.0	96.97	90.53-109.14		0.31
Surr:1,2-Dichloroethane-d4	26.2	ug/L	30.0	87.17	82.85-121.80		2.53
							28.05
							44.82
							36.47
							19.49
							8.07
							9.34

Quality Control Batch: 10271292		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	
Laboratory Control Sample	Result	Units	Spike
1,2,3-Trichloropropane	0.306	ug/L	0.250
1,2-Dibromoethane (EDB)	0.254	ug/L	0.250
1,2-dibromo-3-chloropropane	0.265	ug/L	0.250
			%REC
			122.44
			101.52
			106.04
			%REC Lim
			80.00-120.00
			80.00-120.00
			80.00-120.00

Matrix Spike		Units					
Result		ug/L	Spike	%REC	%REC Lim	Sample	
1,2,3-Trichloropropane	0.263	ug/L	0.250	105.32	80.00-120.00	0.0198U	
1,2-Dibromoethane (EDB)	0.252	ug/L	0.250	100.72	80.00-120.00	0.00991U	
1,2-dibromo-3-chloropropane	0.252	ug/L	0.250	100.64	80.00-120.00	0.0198U	
Matrix Spike Duplicate							
Result		ug/L	Spike	%REC	%REC Lim	Sample	RPD Lim
1,2,3-Trichloropropane	0.271	ug/L	0.250	108.36	80.00-120.00	0.0198U	20.00
1,2-Dibromoethane (EDB)	0.245	ug/L	0.250	98.04	80.00-120.00	0.00991U	20.00
1,2-dibromo-3-chloropropane	0.252	ug/L	0.250	100.76	80.00-120.00	0.0198U	20.00



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Quality Control Batch: 10271380		Analyst: PCW	
Blank	Result	Units	
TOC	1.00U	mg/L	
Laboratory Control Sample			
TOC	Result	Units	%REC
	10.9	mg/L	108.94
		Spike	%REC Lim
		10.0	80.00-120.00
Matrix Spike			
TOC	Result	Units	%REC
	31.0	mg/L	100.46
		Spike	%REC Lim
		10.0	47.04-140.20
Matrix Spike Duplicate			
TOC	Result	Units	%REC
	29.1	mg/L	81.49
		Spike	%REC Lim
		10.0	47.04-140.20
		Sample	RPD
		20.9	6.32
		Sample	RPD Lim
		20.9	20.00

Quality Control Batch: 10271465		Analyst: VLB	
Blank	Result	Units	
TKN(as N)	0.200U	mg/L	
Laboratory Control Sample			
TKN(as N)	Result	Units	%REC
	2.96	mg/L	98.66
		Spike	%REC Lim
		3.00	90.00-110.00
Matrix Spike			
TKN(as N)	Result	Units	%REC
	3.62	mg/L	99.33
		Spike	%REC Lim
		3.00	80.00-120.00
Matrix Spike Duplicate			
TKN(as N)	Result	Units	%REC
	3.69	mg/L	101.66
		Spike	%REC Lim
		3.00	80.00-120.00
		Sample	RPD
		0.639	1.91
		Sample	RPD Lim
		0.639	14.80



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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

Some of the metals Matrix Spike recoveries are outside of control limits but the sample spiked is not from this sample delivery group. The LCS validates the 10 sample batch.

Attachments

Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	One or more QC samples associated with this data value exceeded QC limits.
J1	Surrogate recovery limits have been exceeded.
J2	No known quality control criteria exist for the component.
J3	Reported value failed to meet established quality control criteria for either precision or accuracy.
J4	Sample matrix interfered with the ability to make an accurate determination on the spiked sample.
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.
ZTNTC	Too numerous to count. Numeric value represents filtration volume.
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.

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
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☐ Flowers Chemical Labs-North

812 S.W. Harvey Greene Dr.
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☐ Flowers Chemical Labs-Keys

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



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Client ATKINS - TAMPA Project Name P.O. #
Address Client Contact FAX

Phone FCL Project Manager E-MAIL

Requested Due Date OR Vehicle Surcharge \$ Sampling Fee \$
10 Day Standard Pick-Up Fee \$ Rush Charges May Apply

Sampled By (PRINT): Ray Castro Date Sampled
Sampler Signature Raymond Castro

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	SW-2	2/23/14	11:57	SW	254757SW1						QUICK LIST - GER ATTACHED 1-2-20 P1122	13
2												
3												
4												
5												
6												
7												
8												
9												
10												
Relinquished By / Affiliation		Date	Time	Accepted By / Affiliation		Date	Time	Relinquished By / Affiliation		Date	Time	Total # Containers
												13

FINANCE CHARGES APPLIED TO PAST DUE INVOICES

• WHITE - Lab Copy - To Be Scanned

• YELLOW - Client Copy