

**OPERATIONAL TESTING REQUEST  
OKEECHOBEE LANDFILL, INC.  
CLASS I INJECTION WELL SYSTEM  
OKEECHOBEE, FLORIDA**

***July 2009***

***Prepared for:***

***Okeechobee Landfill, Inc.  
Okeechobee, Florida***

***Prepared by:***

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July 2, 2009  
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OKEECHOBEE, FLORIDA  
FDEP PERMIT NO. 040842-022 UC

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\_\_\_\_\_  
Mr. Timothy B. Hawkins  
Vice President  
Okeechobee Landfill, Inc.  
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6-23-09



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**TABLE OF CONTENTS**

	<u>Page</u>
<b>1.0 INTRODUCTION .....</b>	<b>1</b>
<b>2.0 WELL COMPLETION CERTIFICATION .....</b>	<b>2</b>
<b>3.0 RESULTS OF SHORT TERM INJECTION TEST .....</b>	<b>2</b>
3.1 Background Data .....	3
3.2 Injection Test Data .....	4
3.3 Recovery Data .....	5
<b>4.0 FINAL TELEVISION SURVEYS .....</b>	<b>6</b>
<b>5.0 LITHOLOGIC AND GEOPHYSICAL LOGS WITH INTERPRETATION.</b>	<b>6</b>
5.1 Surficial Aquifer System .....	7
5.2 Upper Floridan Aquifer .....	7
5.3 Primary Confining Unit .....	8
5.4 Lower Florida Aquifer Zone .....	9
<b>6.0 CERTIFICATION OF MECHANICAL INTEGRITY TESTING .....</b>	<b>9</b>
6.1 Injection Well IW-1 .....	9
6.2 Monitoring Well MW-1 .....	10



**TABLE OF CONTENTS (cont.)**

<b>7.0</b>	<b>INJECTION PROCEDURES</b> .....	<b>11</b>
<b>8.0</b>	<b>FLUID COMPATIBILITY EVALUATION</b> .....	<b>12</b>
<b>9.0</b>	<b>SURFACE EQUIPMENT</b> .....	<b>12</b>
<b>10.0</b>	<b>CALIBRATION CERTIFICATES</b> .....	<b>13</b>
<b>11.0</b>	<b>AS-BUILT DRAWINGS</b> .....	<b>13</b>
<b>12.0</b>	<b>OPERATIONS &amp; MAINTENANCE MANUAL (O &amp; M)</b> .....	<b>13</b>
<b>13.0</b>	<b>DEMONSTRATION OF CONFINEMENT</b> .....	<b>13</b>
13.1	Drilled Sample Cuttings .....	14
13.2	Packer Pumping Test.....	14
13.3	Video Survey .....	16
13.4	Core Collection and Analysis .....	17
13.5	Geophysical Logs.....	18
13.6	Radioactive Tracer Survey .....	19
13.7	Injection Test .....	19
<b>14.0</b>	<b>OLI LEACHATE ANALYSIS</b> .....	<b>19</b>
<b>15.0</b>	<b>MONITOR ZONE AND INJECTION ZONE WATER QUALITY</b> .....	<b>20</b>
<b>16.0</b>	<b>REFERENCES</b> .....	<b>20</b>



## TABLE OF CONTENTS (cont.)

### TABLES

	<u>Page</u>
3.1 Pressure Data.....	3a
5.1 Geologic Units Identified Using Site Logs.....	7
5.2 Hydrogeologic Units Identified Using Site Logs.....	7
8.1 Injection Zone & Effluent Water Quality Comparison .....	12
13.1 Summary of Straddle Packer Test .....	15
13.2 Summary of Core Data .....	17
13.3 Core Test Results .....	18

### FIGURES

- 1.1 Site Location Map
- 1.2 Site Plan
- 3.1 Injection Test Data

### APPENDICES

- A. INJECTION WELL SYSTEM CERTIFICATIONS & AS-BUILT DRAWINGS
- B. TIDAL DATA
- C. FLOWMETER, PRESSURE GAUGE AND TRANSDUCER CALIBRATION SHEETS
- D. ANALYTICAL TEST REPORTS (Compact Disc)
- E. LITHOLOGIC LOGS & GEOPHYSICAL LOGS

### ATTACHMENT

OPERATION & MAINTENACE MANUAL



## 1.0 INTRODUCTION

The Okeechobee Landfill, Inc, Facility is located at 10800 NE 128th Avenue, Okeechobee, Florida 34972. The site lies in Section 13, Township 36S, Range 36E. A Site Location Map and Site Plan are presented as **Figures 1.1** and **1.2**, respectively. This report has been prepared on behalf of Okeechobee Landfill, Inc. to request Florida Department of Environmental Protection (FDEP) authorization for operational testing of the OLI Class I injection Well System pursuant to Chapter 62-528, Florida Administrative Code (FAC) and Specific Condition 5 of the Underground Injection Control (UIC) Permit No. 0040842-022 UC.

The injection system consists of a Class I injection well (IW-1) and Dual Zone, Satellite Monitoring Well (MW-1). The injection system has been designed and constructed to dispose of untreated leachate from the landfill at the site. Currently the landfill leachate is evaporated on site with the remainder transported off site to another injection well facility in Pompano Beach, Florida, approximately 125 miles from the site. Once the injection well system is on line, all of the leachate generated by the landfill will be disposed of via the injection well system.

The OLI injection well has a design acceptance capacity of 3.3 million gallons per day (mgd). At present, the OLI facility generates approximately 33,000 gallons per day (gpd) during the off-season periods and approximately 250,000 gpd during the peak rainfall season. Operational testing of the injection well system is anticipated to commence prior to the end of the rainy season which began June 1. Consequently, the injection well system is expected to begin operational testing at a rate of approximately 250,000 gpd for the first four or five months of operation and gradually decrease to a rate of approximately 33,000 gpd by the end of the fourth or fifth month of operational testing.



The following information is submitted as specified in Permit Condition 6:

## 2.0 WELL COMPLETION CERTIFICATION

The certification of well construction along with as-built drawings of IW-1 and MW-1 are included in **Appendix A**.

## 3.0 RESULTS OF SHORT TERM INJECTION TEST

A short term injection test was conducted on the injection well system to demonstrate that the well would accept fluid at the design rate, and to determine the approximate operating pressure for IW-1. The injection test was conducted in three stages over the course of several days beginning at 12:00 P.M. on June 16, 2009 and concluding at 1:15 P.M. on June 20, 2009.

The injection rate was measured by an impeller type flowmeter installed in the 10-inch diameter pipeline between IW-1 and the injection pump at a temporary steel storage tank that was used as the slurry pit during well construction. The slurry pit held approximately 88,000 gallons of water and was supplied by a second pump delivering water from the storm water retention pond about 200 feet north of the injection well site. Pressure data was collected from IW-1 and MW-1 with In-Situ Level Troll 700 data loggers. Pressure sensitive transducers were installed at measuring points on the IW-1 well-head, the IW-1 annulus and both monitoring zones in MW-1. The Level Troll transducers are vented which eliminates barometric pressure change corrections to the data recorded by the Level Troll 700 data logger. The tidal data is “Verified” tide data for the Palm Beach Gardens Bridge (closest “Verified” data station). The data was obtained from the National Oceanographic and Atmospheric Administration (NOAA) and is included as **Appendix B**. NOAA “Verified data” is data that has been checked against NOAA quality assurance standards and determined to be accurate pursuant to those standards. Calibration sheets showing that the flowmeter was performing within acceptable limits established by the manufacturer is provided in **Appendix C**.





Following the background portion of the test, active injection began on June 17, 2009 and lasted 24 hours, 2 minutes. The average pumping rate for the injection test was about 2,200 gpm. Based on the flow-meter's totalizer, 3,161,000 gallons of water were injected through the well during the injection portion of the test. The final 24 hours of the test consisted of continuous measuring of the pressures in IW-1 and MW-1.

An on-site stormwater retention pond was used as the source of the water during the injection test. The water was pumped through a temporary piping system by a diesel powered pump all of which was installed for the purposes of the injection test. Analytical laboratory tests demonstrating that the water from the retention pond was suitable for the injection test were provided to FDEP under separate cover in correspondence (L.S. Sims & Associates, Inc., Injection Test Request, May 28, 2009) and is included in **Appendix D** of this report.

**Table 3.1** shows a summary of the pressure data recorded by the Level Trolls from the various measuring points during the injection test. A graphical presentation of the pertinent data collected during the injection test is presented on **Figure 3.1**. The graph in **Figure 3.1** shows the data from the last 72 hours of the test which includes 24 hours of background readings, 24 hours of active injection, and 24 hours of post injection recovery data.

### **3.1 Background Data**

Background pressure readings in IW-1 (both well-head and annular pressure), and the two monitoring zones in MW-1 were recorded for approximately 25 hours prior to initiating the pumping portion of the test. As shown on **Figure 3.1**, the measurements at all the sampling points remained relatively constant during the background portion of the injection test. The well-head pressure in the injection well remained at approximately 3 pounds per square inch-gauge (psig) and the annular pressure in the injection well remained constant at approximately 66 psig during the daylight hours and dropped to about 61 psig during the night.

The fluid level in both the upper and lower monitoring zones is below surface in the MW-1 due to the ground surface elevation. Consequently, neither monitoring zone flows; there is no well-head pressure. To measure changes in the potentiometric surface in MW-1, pressure transducers were lowered into each zone [approximately 70 feet below land surface (bls)] which placed the



**Table 3.1 IW-1 INJECTION TEST - OLI OKEECHOBEE, FLORIDA**

Date	Time	ET (min)	WELL HEAD	WELL HEAD	ANNULUS	LOWER MW	UPPER MW	FLOWMETER DATA	
			PSI	TEMP F°	PSI	Water Elevation	Water Elevation	RATE/GPM	TOTALIZER
6/16/2009	13:15	1275.2	3.515135	99.8	66.395714	8.369175	24.796998	0	116,000
6/16/2009	14:15	1335.2	3.457413	102.5	66.498428	8.306436	24.818322	0	
6/16/2009	15:15	1395.2	3.39344	93.0	65.373285	8.465863	24.819413	0	
6/16/2009	16:15	1455.2	3.332481	90.0	64.245300	8.556091	24.823346	0	
6/16/2009	17:15	1515.2	3.258711	89.5	64.445892	8.573946	24.80206	0	
6/16/2009	18:15	1575.2	3.216799	90.1	65.043602	8.53593	24.80996	0	
6/16/2009	19:15	1635.2	3.178856	84.4	63.384186	8.633466	24.812123	0	
6/16/2009	20:15	1695.2	3.104443	82.0	63.012291	8.609024	24.794308	0	
6/16/2009	21:15	1755.2	3.083496	80.1	62.697075	8.507398	24.790498	0	
6/16/2009	22:15	1815.2	3.042461	78.0	62.484360	8.361198	24.765061	0	
6/16/2009	23:15	1875.2	3.01366	76.4	62.173412	8.219217	24.757886	0	
6/17/2009	0:15	1935.2	2.999809	72.6	61.719002	8.146438	24.785214	0	
6/17/2009	1:15	1995.2	2.993557	72.5	61.979698	8.082277	24.821988	0	
6/17/2009	2:15	2055.2	2.973358	72.7	61.909298	8.062893	24.795075	0	
6/17/2009	3:15	2115.2	2.971375	72.8	62.007458	8.040735	24.827935	0	
6/17/2009	4:15	2175.2	2.95451	72.2	61.888786	8.053089	24.818841	0	
6/17/2009	5:15	2235.2	2.942326	71.5	61.870232	8.058324	24.812379	0	
6/17/2009	6:15	2295.2	2.933243	71.0	61.815376	8.040628	24.79868	0	
6/17/2009	7:15	2355.2	2.906326	72.5	61.878479	7.985977	24.757661	0	
6/17/2009	8:15	2415.2	2.898422	78.1	63.628822	7.865062	24.746022	0	
6/17/2009	9:15	2475.2	2.894363	85.1	65.363617	7.852571	24.746255	0	
6/17/2009	10:15	2535.2	2.896873	89.9	66.317543	7.837585	24.759122	0	
6/17/2009	11:15	2595.2	2.897709	92.8	66.241455	7.890243	24.773366	0	
6/17/2009	12:15	2655.2	2.903658	96.8	66.133209	7.932935	24.78164	0	116,000
6/17/2009	13:15	0	2.908142	99.1	67.861488	7.984071	24.805653	2400	Start pump
6/17/2009	14:14	59.6	57.614433	101.6	66.405212	7.995287	24.840596	2350	
6/17/2009	15:14	119.1	57.416489	98.3	64.818100	8.093681	24.860631	2325	
6/17/2009	16:14	179.1	58.044624	91.7	62.224968	8.200262	24.867913	2300	
6/17/2009	17:14	239.1	58.244854	90.6	62.303413	8.210039	24.876996	2300	
6/17/2009	18:14	299.1	58.82793	89.6	60.867027	8.144472	24.861314	2275	
6/17/2009	19:14	359.1	59.222702	89.5	72.370285	8.144476	24.867913	2275	increase annular psi
6/17/2009	20:14	419.1	59.320259	82.0	70.569229	8.169544	24.860997	2250	
6/17/2009	21:14	479.1	60.07901	80.1	70.180344	8.151966	24.851666	2250	
6/17/2009	22:14	539.1	60.44989	80.0	69.853882	8.118211	24.838803	2225	
6/17/2009	23:14	599.1	60.4869	78.9	69.704567	8.117139	24.848641	2225	
6/18/2009	0:14	659.1	61.25433	75.0	69.454247	8.139032	24.879571	2225	
6/18/2009	1:14	719.1	60.688751	75.6	69.228638	8.153606	24.895066	2225	
6/18/2009	2:14	779.1	61.204906	73.7	69.137291	8.17724	24.921502	2225	
6/18/2009	3:14	839.1	61.045921	73.3	68.911575	8.180608	24.925881	2225	
6/18/2009	4:14	899.1	61.682285	75.6	68.941772	8.182943	24.929658	2225	
6/18/2009	5:14	959.1	61.664059	72.6	68.907326	8.187887	24.923501	2225	
6/18/2009	6:14	1019.1	61.342777	71.7	68.677681	8.169574	24.895814	2225	
6/18/2009	7:14	1079.1	61.237011	78.3	69.335648	8.117651	24.879926	2225	
6/18/2009	8:14	1139.1	61.01046	82.0	71.261246	8.08418	24.855592	2225	
6/18/2009	9:14	1199.1	60.659016	87.0	72.410477	8.035408	24.852299	2225	
6/18/2009	10:14	1259.1	60.849354	97.2	74.595726	7.980939	24.840813	2225	
6/18/2009	11:14	1319.1	61.417686	94.5	74.395302	8.073135	24.853795	2225	
6/18/2009	12:14	1379.1	60.696487	100.2	74.530563	8.04309	24.872441	2225	
6/18/2009	13:14	1439.1	61.06229	102.6	75.118469	8.102424	24.906266	2225	Stop Pump
6/18/2009	14:16	1502.0	62.651098	103.1	74.430527	8.03465	24.919488	0	3,279,000
6/18/2009	15:16	1561.5	2.716719	107.2	75.407471	8.089117	24.94492	0	
6/18/2009	16:16	1621.5	2.774422	95.9	75.121979	8.269453	24.962605	0	
6/18/2009	17:16	1681.5	2.752903	74.0	69.255157	8.453224	25.088673	0	
6/18/2009	18:16	1741.5	2.812435	73.6	69.345749	8.534217	24.916337	0	
6/18/2009	19:16	1801.5	2.841759	74.6	69.583023	8.551506	24.912324	0	
6/18/2009	20:16	1861.5	2.864101	73.1	69.457436	8.572694	24.902215	0	
6/18/2009	21:16	1921.5	2.88987	72.3	69.514885	8.601606	24.901448	0	
6/18/2009	22:16	1981.5	2.910221	71.9	69.597427	8.614324	24.905133	0	
6/18/2009	23:16	2041.5	2.924934	72.0	69.571800	8.642242	24.894296	0	
6/19/2009	0:16	2101.5	2.950909	71.8	69.609276	8.653057	24.920708	0	
6/19/2009	1:16	2161.5	2.973679	71.5	69.719604	8.62195	24.9283	0	
6/19/2009	2:16	2221.5	2.9972	70.8	69.758377	8.526804	24.954015	0	
6/19/2009	3:16	2281.5	3.02076	70.9	69.871552	8.421171	24.974366	0	
6/19/2009	4:16	2341.5	3.034153	71.2	69.985336	8.285225	24.979203	0	
6/19/2009	5:16	2401.5	3.042503	71.0	69.914780	8.223062	24.963956	0	
6/19/2009	6:16	2461.5	3.037167	71.1	69.887619	8.177339	24.930348	0	
6/19/2009	7:16	2521.5	3.038368	72.3	70.390823	8.13371	24.904927	0	
6/19/2009	8:16	2581.5	3.041218	80.3	72.092407	8.049566	24.871072	0	
6/19/2009	9:16	2641.5	3.046068	87.3	74.786644	8.009748	24.852914	0	
6/19/2009	10:16	2701.5	3.058712	91.7	75.273651	8.009939	24.851907	0	
6/19/2009	11:16	2761.5	3.069962	94.1	75.823509	8.049766	24.850781	0	
6/19/2009	12:16	2821.5	3.090858	97.5	75.870399	8.064306	24.863229	0	
6/19/2009	13:16	2881.5	3.104624	102.1	76.493156	8.083791	24.889012	0	3,279,000
<b>Minimum</b>			<b>2.65</b>	<b>70.78</b>	<b>60.87</b>	<b>7.84</b>	<b>24.75</b>	<b>0.00</b>	<b>116000.00</b>
<b>Average</b>			<b>21.8196936</b>	<b>83.128636</b>	<b>68.23744632</b>	<b>8.213891521</b>	<b>24.86150107</b>	<b>771.5753425</b>	<b>1697500</b>
<b>Maximum</b>			<b>61.682285</b>	<b>107.187187</b>	<b>76.493156</b>	<b>8.653057</b>	<b>25.088673</b>	<b>2400</b>	<b>3279000</b>



transducers below the fluid surface. The Level Trolls recorded feet of head above the transducers and were converted to fluid surface elevations in the tables and graphical presentation of the data. The shallow and deep monitoring zones remained relatively constant at approximately 8 feet above National Geodetic Vertical Datum (NGVD) 1929 in the Lower Monitoring Zone and 24 feet NGVD in the Upper Monitoring Zone. Slight fluid surface elevation changes (approximately 0.4 feet) were recorded during the background monitoring period in the Lower monitoring zone. The elevations ranged from 8.2 feet NGVD to 8.6 feet NGVD. These potentiometric surface changes do not correlate to tidal changes or barometric pressure changes and were observed only in the Lower Monitoring Zone. Ambient air pressure remained relatively constant at approximately 29.9 inches of mercury throughout the background portion of the test according to National Oceanic & Atmospheric Administration (NOAA) Quality Controlled Local Climatological Data (Okeechobee, FL). The nearest tide monitoring station is located at the PGA Boulevard Bridge in Palm Beach County, about 45 miles southeast of the site.

It should be noted that the Level Troll 30 psi transducers used to collect the data from the monitoring zones have accuracy of  $\pm 0.25\%$  which correlates to approximately 0.4 feet of head. In consideration of the limitations of the pressure transducers, background pressures in the injection well and monitor zones were relatively stable throughout the background monitoring period.

### **3.2 Injection Test Data**

Well-head pressure in IW-1 increased from approximately 3 psig to approximately 55 psig during the first ten minutes of active injection. The initial pumping rate was 2,400 gpm. Active injection continued for 24 hours and two minutes. During that time, a total of 3,161,000 gallons of water were injected into IW-1 at an average velocity of 9.5 feet per second. As the water level in the storm-water pond dropped, pump output supplying the metal slurry pit decreased slightly and it was not possible to maintain 2,400 gpm throughout the test. After the first twelve hours of the pumping portion of the test, the pump output had been reduced to 2,200 gpm and remained relatively constant thereafter. The average pump rate during the test was 2253 gpm.



Throughout the pumping portion of the test, IW-1 well-head pressures ranged between 55 and 61.5 psig. The average well-head pressure throughout the pumping portion of the test was 57.9 psig. In general, well-head pressure rose slowly during the first twelve hours of the injection phase of the test but stabilized at about 61.5 psig during the last 12 hours of the test.

Throughout the entire injection test, pressure changes in the deep and shallow monitoring zones were minimal. The range of pressures recorded for the deep monitoring zone was 7.84 - 8.12 feet (a difference of only 0.28 feet). The range of pressures recorded in the shallow monitoring zone was 24.75 - 25.09 feet or a difference of only 0.34 feet. These changes are within the accuracy range of the Level Troll transducers ( $\pm 0.4$  feet of head).

The pressures measured from the two monitoring zones were compared to tidal data and atmospheric pressure. Changes in sea level or barometric pressure did not have an effect on the monitoring zone pressures. In addition, active injection into IW-1 during the test had no measurable effect on the potentiometric surface in either monitor zone.

No significant changes from background conditions were observed in the two monitoring zones during the injection test. Tidal influence on the potentiometric surface of the monitoring zones was negligible.

### **3.3 Recovery Data**

Well-head pressure in IW-1 dropped rapidly after the injection pump was stopped. Just prior to the end of the active injection portion of the test, well-head pressure in IW-1 was 61.5 psig. When the injection pump was turned off at 1:17 P.M. on June 19, 2009, the well-head pressure dropped to negative 10 psig within one second. During the following 10 minutes, successively smaller oscillations in well-head pressure occurred until the well-head pressure began to stabilize at approximately 3 psig. Approximately 5 hours after pumping was stopped, the IW-1 well-head pressure had returned to the original static pressure of approximately 2.7 psig. The IW-1 well-head pressure remained constant at this pressure throughout the duration of the recovery period.



During the 24 hour recovery portion of the injection test, the pressure in the two monitoring zones remained relatively constant as they had through the background and active injection portions of the test. There was a comparatively small change (0.3 feet of head) in the lower monitoring zone potentiometric surface about 10 hours into the recovery portion of the test. This change is similar to that experienced during the background portion of the test. It could not be correlated to tide cycles or changes in atmospheric pressure. Atmospheric pressure remained steady at approximately 29.9 inches of mercury during this same time period. As in earlier portions of the injection test, changes in sea level or barometric pressure did not have an effect on the monitoring zone water level elevations.

#### **4.0 FINAL TELEVISION SURVEYS**

The final down-hole TV videotapes of the IW-1 10 3/4-inch (9.72-inch I.D.) DHC500 Centron Pipe fiberglass reinforced plastic (FRP) injection tubing; the 16-inch (15-inch I.D.) injection casing; the 16-inch MW-1 casing; and the MW-1 FRP tubing were previously submitted to the Department with the Injection Test Request (L.S. Sims & Associates, May 28, 2009). The video surveys of the IW-1 injection casing and tubing and the MW-1 16-inch casing and FRP tubing allowed inspection of the casings and open-hole intervals of IW-1 and MW-1. The surveys did not indicate the presence of any casing defects, casing abnormalities or geologic conditions that would affect the successful operation the well.

#### **5.0 LITHOLOGIC & GEOPHYSICAL LOGS WITH INTERPRETATION**

Copies of the IW-1 and MW-1 geophysical logs and lithologic logs are provided to the FDEP and UIC-TAC in **Appendix E**.

Using these logs, the following geologic formations and hydrogeologic units were identified at the OLI Injection Well System:



**Table 5.1 Geologic Units Identified Using Site Logs**

<b>Depth (bls*)</b>	<b>Geologic Units</b>
0 to 140	Undifferentiated Marine Terrace Deposits
140 to 670	Hawthorn Group
670 to 800	Ocala Limestone
800 to 2,290	Avon Park Formation
2,290 to 3,150	Oldsmar Formation
3,150 to 3,506	Cedar Keys

\* bls -Feet Below Land Surface

**Table 5.2 Hydrogeologic Units Identified Using Site Logs**

<b>Depth (bls*)</b>	<b>Hydrogeologic Units</b>
0 to 140	Surficial Aquifer System
140 to 670	Intermediate Confining Unit
670 to 2290	Upper Floridan Aquifer System
2290 to 2740	Primary Confining Unit
2740 to 3150	Lower Floridan Aquifer System

\* bls -Feet Below Land Surface

### **5.1 Surficial Aquifer System**

The Surficial Aquifer System and Intermediate Confining Unit were readily identified using lithologic logs. Caliper and gamma logs were also used to confirm the depths of these units. The Surficial Aquifer System consisted of unconsolidated sand, silt and shell fragments (Undifferentiated Marine Terrace deposits, Anastasia Formation and Upper Tamiami Formation). The gamma log intensity was relatively low through this section and the caliper log indicative of a borehole drilled through relatively loose unconsolidated material. The top of the Intermediate Confining Unit was identified using lithologic logs by the distinct greenish-grey color, finer grain size and presence of phosphorite within the Lower Tamiami and Hawthorn Group sediments. Increased gamma activity was observed on the gamma logs and the three-armed caliper tracks showed a generally uniform borehole through this section.



## **5.2 Upper Floridan Aquifer**

The top of the Floridan Aquifer System was identified in the lithologic samples by the presence of limestone fragments within the Lower Hawthorn Group and white limestone fragments of the Ocala Limestone. There is a slight increase in the response of the gamma ray log at approximately 670 feet bls (Upper Ocala Group). The caliper log shows that the hole size is much larger than a gauge hole through the Ocala Limestone, a trend that continues down to approximately 1,000 feet bls within the Upper Avon Park Formation. The Flowmeter log shows significant movement of water into the borehole below the casing set at 770 feet bls. This is consistent with expectations for the transmissive zones within the Upper Floridan Aquifer which has a potentiometric surface just below land surface in this area. The dual induction and sonic logs identify sequences of transmissive zones down to the top of the Primary Confining Unit at approximately 2,290 feet bls.

## **5.3 Primary Confining Unit**

The Primary Confining Unit is present from approximately 2,290 feet to 2,741 feet bls. The upper portion of this unit was identified within the Avon Park and was primarily composed of low permeability limestone, dolomitic limestone, dolomite and chert beds. The caliper log showed a generally uniform borehole through this section. A section of fractured formation was identified from approximately 2,112 feet to 2,290 feet bls. The sonic log transit times decreased significantly through the crystalline dolomite sections. The portion of the Primary Confining Unit from approximately 2,290 feet to 2,741 feet bls is composed of micritic and sometimes glauconitic limestones within the upper Oldsmar Formation. The sonic log again recorded faster transit times in this section typical for dense formation. The caliper log shows that the borehole size increased through some portions of this sequence, but generally did not suggest the presence of fracturing or cavernous conditions. The dual induction log shows that formation fluid resistivity is consistent regardless of depth (normal to borehole wall) of the measurement which indicates the absence of borehole fluid migration into the formation. This response is consistent with lower permeability formation. Temperature and flowmeter logs through this interval demonstrate that water is not moving into or out of the formations penetrated by the borehole in this section.



#### 5.4 Lower Floridan Aquifer Injection Zone

The top of the highly fractured dolomites that comprise the injection zone occur within the Lower Floridan Aquifer System in the Lower Oldsmar Formation from approximately 2,741 ft bls to 3,150 ft bls. Using the caliper log, fractures and solution cavities were found to be present at 2755, 2766, 2771-2775, 2777, 2792, 2800-2804, 2814, 2828, 2831, 2840-2852, 2875, 2912, 2929, 2943-2950, 2957, 2974-2983, 2992, 2997-3150, significant cavities at 2856-2862, 2892-2894, 2907-2909, 2937-2939, with the largest cavity starting at 3033. Through these same intervals, the sonic log recorded greater transit typical of high sonic porosity formation. This response correlates with the fractured intervals observed on the caliper log. The associated variable density log (VDL) display mirrors the sonic log and highlights the fractured and cavernous zones. The dual Induction log responds as expected with very large increases in resistivity through the fractured or cavernous zones, identified by the caliper log, and there is generally large separation between the shallow, medium and deep resistivity curves (indicating fluid migration into the formation). Flowmeter and temperature logs illustrate where borehole fluids are moving between the borehole and the fractured or cavernous zones.

### 6.0 CERTIFICATION OF MECHANICAL INTEGRITY

#### 6.1 Injection Well IW-1

The results of Mechanical Integrity Tests (MIT) on IW-1 were previously submitted to the FDEP and UIC-TAC (L.S. Sims & Associates, Inc., Injection Test Request, May 28, 2009). Mechanical integrity of IW-1 has been verified and demonstrated using results of multiple MIT including, hydrostatic pressure tests of the intermediate casing, the final casing string, and the annular space between the final casing string and the FRP tubing. The mechanical integrity of IW-1 has also been verified by the cement bond logs (CBL) and radioactive tracer surveys (RTS) conducted in the well. Data collected during the short term injection test also confirm the well's mechanical integrity. Copies of the previously submitted pressure gauge calibration sheets and the certified test results are included in **Appendix C**. Copies of the CBL and RTS are provided to the FDEP and UIC-TAC in **Appendix E**.





## 6.2 Monitoring Well MW-1

Mechanical integrity of MW-1 has been verified and demonstrated using results of multiple MIT including, hydrostatic pressure tests of the intermediate, 16-inch diameter, 0.500-inch wall thickness steel (upper zone) casing and the 6 5/8-inch diameter, 0.52-inch wall thickness FRP tubing (lower zone). The mechanical integrity of MW-1 has also been verified by the CBL conducted in the well. Data collected during the short term injection test also confirm the well's mechanical integrity.

The MW-1 16-inch diameter intermediate casing was set at 1,790 feet on December 21, 2008 and cementing operations were completed by December 28, 2008. A hydrostatic pressure test was conducted on the casing string December 31, 2008. The casing was sealed on the bottom with cement and at the surface with a temporary well-head for cementing and pressure testing. On December 29, 2008, the 16-inch diameter casing was filled with water to a pressure of 100 psig. The pressure stayed at 100 psig for a period of one hour. After the one hour hydrostatic pressure test, the contractor released the pressure in the casing and collected approximately 13 gallons of water from the pressured casing. Copies of the previously submitted pressure gauge calibration sheets and the certified test results are included in **Appendix C**.

On December 20 and December 28, 2009 a CBL with VDL was run prior to and just after the 16-inch casing installation, respectively. The pre-cementing and post-cementing logs were compared to evaluate the effectiveness of the cementing. The pre-cementing and post-cementing CBL logs of the 16-inch upper monitor zone casing shows a greatly reduced amplitude in signal from the base of the casing (1,790 feet bls) to land surface indicative of good cement bond to casing. The reduced amplitude of the VDL indicates that there is good cement to formation bond from the base of casing to land surface. Copies of this log were previously submitted to the FDEP and UIC-TAC (L.S. Sims & Associates, Inc., Injection Test Request, May 28, 2009) and is provided in **Appendix E** of this document.

On January 21, 2009 a CBL with VDL was run after the 6 5/8-inch FRP tubing installation. Because the annular space between the tubing and the 16-inch intermediate casing has to remain open to facilitate access to the upper



monitoring zone, only the bottom 130 feet (1,960' to 1,830') of the FRP tubing is cemented in place. The CBL log of the 6 5/8-inch lower monitor zone tubing casing shows a greatly decreased amplitude in signal from the base of the upper monitoring zone at 1,830 feet bls down to the bottom of the FRP tubing at 1,960 feet bls indicative of good cement bond to casing. The reduced amplitude of the VDL indicates that there is good cement to formation bond through that same interval. Copies of this log were previously submitted to the FDEP and UIC-TAC (L.S. Sims & Associates, Inc., Injection Test Request, May 28, 2009) and is included in **Appendix E**.

## 7.0 INJECTION PROCEDURES

Landfill leachate is collected adjacent to the landfill in two covered holding ponds and then pumped using variable frequency drive (VFD) injection pumps to and down the injection well. Initially, two injection pumps will be installed and a third pump will be added to the system in the future, if additional capacity is required. During the initial operation of the injection well system, only one pump will be required to handle the plant's effluent (approximately 250,000 gpd -peak season) and the second pump will be used for backup. Since landfill expansion is accomplished by adding new cells as required while simultaneously closing full cells, the production of leachate is not expected to increase in the future. Additional waste streams may be added in the future by trucking in leachate from other landfills, etc, but there are no firm plans at this time.

During operation of the OLI Injection Well System, effluent flow rates, effluent pH, well-head pressures, annulus pressures and monitor zone fluid surface elevations will be monitored and recorded on a programmable logic controller (PLC).

Based on results of the injection test, the maximum well-head pressure at the design flow rate of 3.3 mgd should be approximately 61.5 psig. The actual injection rates and well-head pressures will be much less. During the peak season a flow rate of approximately 250,000 gpd is expected. The well-head pressure at this flow rate should be approximately 5 psig.



## 8.0 FLUID COMPATIBILITY EVALUATION

The Okeechobee Landfill, Inc. effluent should be compatible with the injection zone formation water at the site for purposes of successful operation of the proposed Class I injection well system. The following table shows a comparison of the major dissolved constituents in the injection zone formation water at the OLI site and the landfill leachate.

**Table 8.1 Injection Zone and Effluent Water Quality Comparison**

Parameter	Units	Injection Zone	Leachate
pH	mg/L	7.35	7.79
Sodium	mg/L	10,000	16
Barium	mg/L	0.037	0.093
Manganese	mg/L	0.0090	< 0.033
Chloride	mg/L	20,000	27
Sulfate	mg/L	2,700	62
Fluoride	mg/L	0.7	< 5.0
Iron	mg/L	0.48	< 0.033
Nitrate	mg/L	< 0.0075	< 0.500
Zinc	mg/L	0.057	0.060

The pH of the fluids is similar (within 1 standard pH unit). The nitrate levels in the leachate may be higher than in the injection zone formation water but the concentration was below the detection limit for the test method and should not result in operational problems. The concentration of Barium is slightly higher than the injection zone fluids as is the concentration of Manganese, but these concentrations are still lower than the drinking water standards. The remaining principal constituents in the leachate are less than the levels in the injection zone formation water.

## 9.0 SURFACE EQUIPMENT

The certification of completion and as-built drawings for the surface equipment are included in **Appendix A**.



## **10.0 CALIBRATION CERTIFICATES**

Calibration certificates for pressure gauges and flowmeters are included in **Appendix C**.

## **11.0 AS-BUILT DRAWINGS**

Signed and sealed record drawings of the injection well system are included in **Appendix A**.

## **12.0 O&M MANUAL**

The Operation & Maintenance Manual is being submitted to FDEP and the UIC-TAC with this Request for Operational Testing Document.

## **13.0 DEMONSTRATION OF CONFINEMENT**

The OLI IW-1 testing program has identified a sequence of rocks between 2,100 and 2,290 feet in the Avon Park Formation and between 2,290 and 2,741 feet in the upper Oldsmar Formation that serve as the Primary Confining Unit separating the injection zone from the overlying underground source of drinking water (USDW). Using water quality data collected during the packer tests and TDS derived from the geophysical logs, the base of the USDW was identified at approximately 1,770 feet bls.

The testing program collected data to support this in a variety of ways. The tests to verify confinement included physical examination of the drilled sample cuttings, packer pumping tests evaluation, core analysis, geophysical log interpretation, video survey analysis, RTS analysis and the injection test analysis.



### **13.1 Drilled Sample Cuttings**

Samples of the cuttings were collected during the construction of IW-1 and MW-1 at 10-foot intervals. The sample cuttings were examined using a binocular microscope and described in detail to establish the nature of the formation being drilled. Based on the microscopic examination by the site geologists, drilled sample cuttings collected while drilling the sections of borehole from 2,100 to 2,290 feet in the Avon Park Formation and between 2,290 and 2,741 feet in the Upper Oldsmar Formation exhibited relatively low visible porosity. In addition, the rocks were identified as dense micritic limestones, dolomitic limestones, and dolomites typical of deposits with low hydraulic conductivity.

### **13.2 Packer Tests**

The construction and testing program for the OLI Injection Well System included the performance of 13 packer tests. The details of these tests have been provided in previous correspondence and reports (Final Casing Setting Depth, October 14, 2008, Monitoring Zone Requests November 26, 2008).

The packer test results were utilized to determine the hydraulic characteristics of the Primary Confining Unit. The table below summarizes the depth and interval of straddle packer tests completed in the injection well pilot-hole from 1,747 feet to 3,506 feet bls. Horizontal hydraulic conductivity (K) and transmissivity estimates are also included in the table.



**Table 13.1 Summary of Straddle Packer Test Data**

OLI EW-1 Packer Test Program							
Packer Test No.	Date	Depth Interval Tested	Q gpm	Pumping K (cm/sec)	Pumping T (cm <sup>2</sup> /sec)	Recovery K (cm/sec)	Recovery T (cm <sup>2</sup> /sec)
1	4/22/08	1898-1922	21	1.1 X 10 <sup>-4</sup>	7.8 X 10 <sup>-2</sup>		
2	4/23/08	1858-1882	35	4.1 X 10 <sup>-3</sup>	3.0		
3	4/24/08	1818-1842	71	1.2 X 10 <sup>-3</sup>	0.85		
4	4/25/08	1774-1798	40	2.1 X 10 <sup>-4</sup>	0.15		
5	4/26/08	1746-1770	22	2.0 X 10 <sup>-6</sup>		1.7 X 10 <sup>-4</sup>	0.12
C1	9/02/08	2324-2342	0			3.8 X 10 <sup>-10</sup>	2.0 X 10 <sup>-7</sup>
C2	9/03/08	2608-2626	1			3.6 X 10 <sup>-6</sup>	2.0 X 10 <sup>-3</sup>
C3	9/06/08	2706-2724	15			1.1 X 10 <sup>-4</sup>	4 X 10 <sup>-11</sup>
C4	9/07/08	2480-2497	4.3			6.2 X 10 <sup>-5</sup>	3.2 X 10 <sup>-2</sup>
C5	9/07/08	2206-2223	32			2.1 X 10 <sup>-4</sup>	0.11

**Table 13.1** summarizes the depth and interval of straddle packer tests completed in the pilot-hole from 1,994 feet to 3,500 feet BLS. Each of the tests isolated a 17 or 18-foot long vertical section of the pilot-hole. Horizontal hydraulic conductivity and transmissivity estimates by L.S. Sims & Associates for the tests conducted between 2,206 feet BLS and 2,724 feet BLS are also included on Table 2.

Straddle packer test No. C1 isolated the section of pilot-hole from 2,324 feet to 2,342 feet below pad level (BLS). Flow could not be maintained during this test. 157 feet of drawdown was created with the straddle packer test set-up using a submersible pump. 0.2 foot of head recovered after two hours during this test. Hydraulic conductivities of the zone were calculated at 3.8 X 10<sup>-10</sup> cm/sec (recovery data). Straddle packer test No. C2 isolated the section of pilot-hole from 2,608 to 2,626 BLS. A pumping rate of 1 gpm was established with a total drawdown of 157 feet. Horizontal hydraulic conductivities of the zone were calculated at 3.6 ×



$10^{-6}$  cm/s (recovery data). Straddle packer test No. C3 isolated a section of the pilot-hole from 2,706 feet to 2,724 feet BLS. A flow rate of 15 gpm was established with a total drawdown of 122 ft. Horizontal hydraulic conductivities of the zone were calculated at  $1.1 \times 10^{-4}$  cm/s (recovery data). Straddle packer No. C4 isolated a section of the pilot-hole from 2,480 feet to 2,497 feet BLS. A flow rate of 4.3 gpm was established with a drawdown of 159 ft. Horizontal hydraulic conductivities were calculated at  $6.2 \times 10^{-5}$  cm/s (recovery data). Packer test No. C5 isolated a section of pilot-hole from 2,206 feet to 2,223 feet BLS. A flow rate of 32 gpm was established with a vertical drawdown of 141 feet. Horizontal hydraulic conductivities were calculated at  $2.1 \times 10^{-4}$  cm/s (recovery data).

Overall, the packer testing showed most of the tested intervals in the pilot-hole had a low permeability and, therefore, the low-permeability Lower Avon Park and Upper Oldsmar Formations should act as a good confining unit.

Overall, the packer testing showed most of the tested intervals within the Avon Park and Upper Oldsmar Formations should be suitable for confinement of the injection zone.

### **13.3 Video Survey**

The TV survey also confirms the lithologies present in the well. A large diameter section of borehole indicative of less indurated limestone was present from 2,220 feet to 2,550 feet BLS. Dolomite and chert beds were present from 2,030 feet to 2,280 feet BLS. The video survey was generally clear in spite of the fact that as an exploratory well, the contractor could not pump fresh water into the well to improve visibility. The video generally becomes cloudy below 3,020 feet BLS and too cloudy to view any details below 3,030 feet BLS due to the inability to induce sufficient flows to clear water with the higher suspended solids from the most permeable sections of the borehole. The video survey verified the presence of injection zones from 2,741 to 3,150 feet BLS.



### 13.4 Core Collection and Analysis

Core samples were used to obtain lithologic descriptions of undisturbed (compared to drilled sample cuttings) samples of the formation. Core samples were also sent to a laboratory where hydraulic conductivity (K) values were measured. The details of the core collection procedures have been provided in previous correspondence and reports (L.S. Sims & Associates, Final Casing Setting Depth, 10/14/08, L.S. Sims & Associates, Monitoring Zone Requests November 26, 2008).

**Table 13.2** summarizes the depth and interval of the cores collected from IW-1 within the Primary Confining Unit.

**Table 13.2 Summary of Core Data**

Core No.	Date	Depth Interval Tested	Footage Cored	Footage Recovered	% Recovered	Rock Type
1	6/20/08	2046 - 2056	10	7.5	75	Dolomite
2	7/30/08	2161 - 2167	10	6	60	Dolomite
3	8/2/08	2200 - 2214	14	14	93	Dolomite
4	8/3/08	2250-2265	15	11.5	77	Limestone
5	8/3/08	2300-2304	4	1	25	Limestone
6	8/7/08	2321-2326	5	3.2	62	Limestone
7	8/10/08	2383-2390	7	3	42	Limestone
8	8/12/08	2421-2430	9	9	100	Limestone
9	8/14/08	2490-2504	14	14	100	Limestone
10	8/16/08	2585-2599	14	14	100	Limestone

Selected samples from several cores were taken from the interval between 2,054 feet and 2,592 feet bls for laboratory analysis. The core lab report is summarized in **Table 13.3** below.





**Table 13.3 Core Test Results**

Depth (ft) BLS	Hydraulic Conductivity (K)	
	Vertical	Horizontal
2054	4.7e-10	3.3e-9
2112	6.7e-11	-----
2167	9.3e-6	1.3e-5
2211	5.5e-5	5.2e-5
2262	2.1e-8	1.9e-5
2326	5.4e-8	7.1e-8
2390	1.3e-4	2.0e-4
2424	6.9e-10	1.6e-10
2502	9.1e-5	1.4e-4
2585	3.5e-6	4.0e-6
2592	1.7e-5	4.8e-7

The core results show very low vertical K values for sections of the formation comprising the Primary Confining Unit. Vertical K values in the  $10^{-10}$  range are indicative of impervious formation. A copy of the core lab report is provided in **Appendix D**.

### **13.5 Geophysical Logs**

The geophysical logs conducted on the pilot-hole include; natural gamma ray, caliper, fluid conductivity, temperature (static and  $\Delta T$ ), flowmeter (dynamic and static), dual induction, and sonic. The logs were correlated with the lithologic data derived from the cutting and core samples. Log interpretations are included in Section 5.3.

In general, each geophysical log by itself is not definitive, but when looked at collectively, the geophysical logs confirm the presence of a thick confining sequence in the Avon Park Formation and Upper Oldsmar Formation.



### **13.6 Radioactive Tracer Survey**

The details of the RTS have been provided in previous correspondence and reports (L.S. Sims & Associates, Injection Test Request, May 28, 2009). While the RTS is designed primarily to provide evidence of mechanical integrity, it also demonstrates the presence of confinement or absence of fluid movement behind the borehole wall or through the formation. The RTS did not detect the vertical migration of any fluids and demonstrated that the confining sequence of rocks effectively prevents vertical migration of fluids past the depth of the casing shoe at 2,737 bls.

### **13.7 Injection Test**

As described in Section 3 of this report, no indication of a change in pressure was observed in either the upper or lower monitor zone before, during or after active injection of fluids during the injection test. The absence of a response to injection in either of the two monitoring zones demonstrates that the sequence of rocks between 2,290 and 2,741 should provide effective confinement.

A thorough review of available data from all of the tests described in this section confirms the presence and effectiveness of a thick confining sequence of rocks between 2,290 and 2,741s. The confining sequence of rocks collectively possesses sufficient thickness and areal extent, and appropriate lithologic and hydrologic characteristics to prevent the upward migration of injected fluids from the injection zone resulting in impacts to the USDW.

## **14.0 OLI LEACHATE ANALYSIS**

A copy of the leachate analysis (December 8, 2008 and January 7, 2009) is included in **Appendix D**.



## 15.0 MONITOR ZONE AND INJECTION ZONE WATER QUALITY

After completion, water samples were collected from the upper monitoring zone and the lower monitoring zone of MW-1 (January 21, 2009). The water samples were delivered to a State certified analytical laboratory where they were analyzed for the presence of Primary and Secondary Drinking Water Standard parameters as specified in the permit. These laboratory reports are submitted to establish background water quality. Copies of the analytical laboratory reports are included in **Appendix D**.

A water quality sample was collected on January 14, 2009 from the completed injection well IW-1. The analytical laboratory report for the injection zone is included in **Appendix D**.

## 16.0 REFERENCES

L.S. Sims & Associates, Class I Injection Well Construction, Okeechobee Landfill, Inc., FDEP Permit No. 40998-001-UC, Report: Request for Final Injection Casing-Setting Depth Approval, October 14, 2008.

L.S. Sims & Associates, Class I Injection Well Construction Monitoring Zone Requests, Okeechobee Landfill, Inc., Okeechobee, Florida, November 26, 2008.

L.S. Sims & Associates, Class I Injection Well Construction, Okeechobee Landfill, Inc., FDEP Permit No. 040422-022-UC, Injection Test Request, May 28, 2009.

# Figures

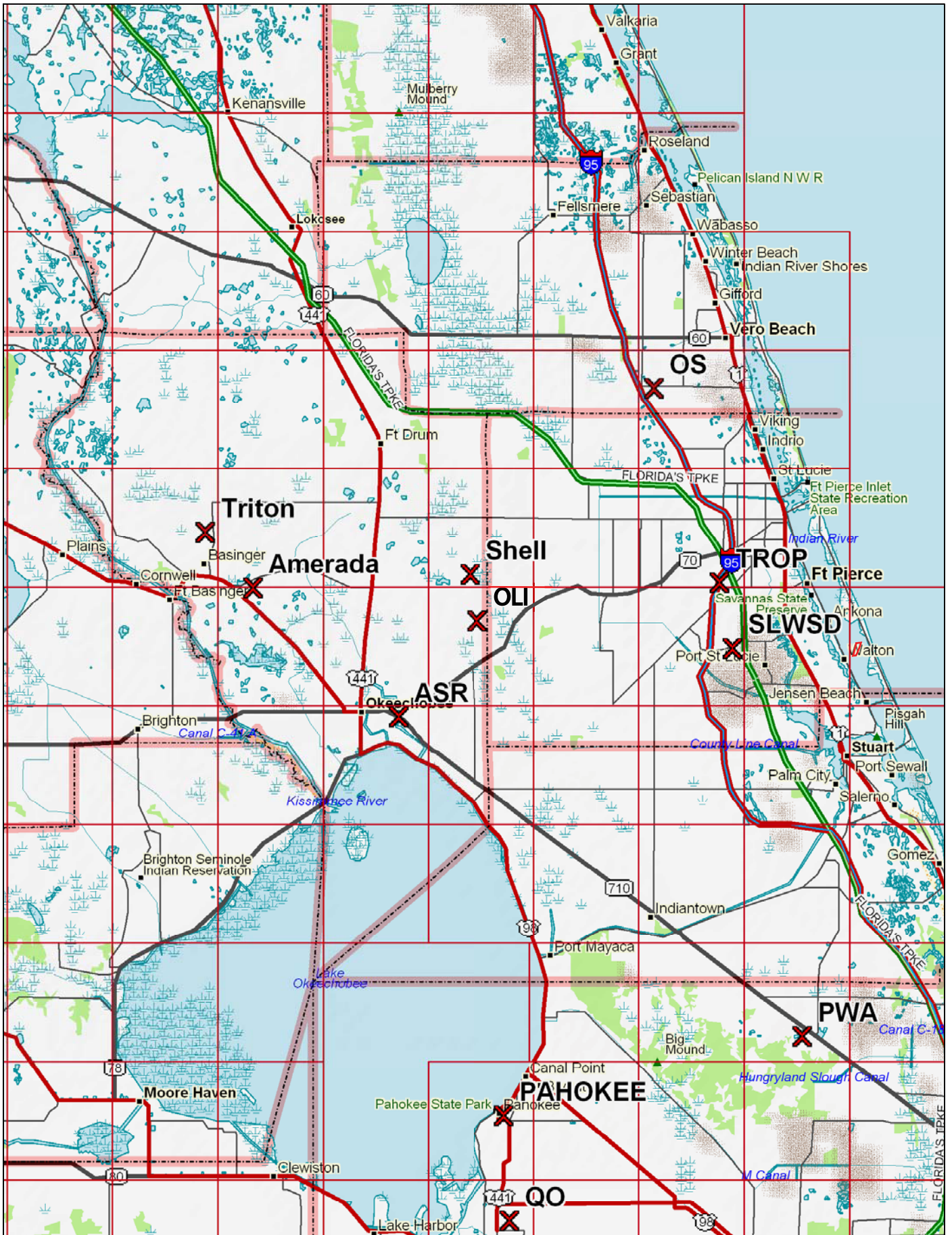
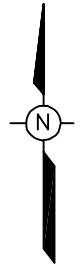
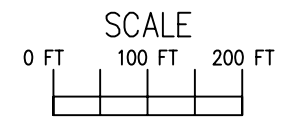
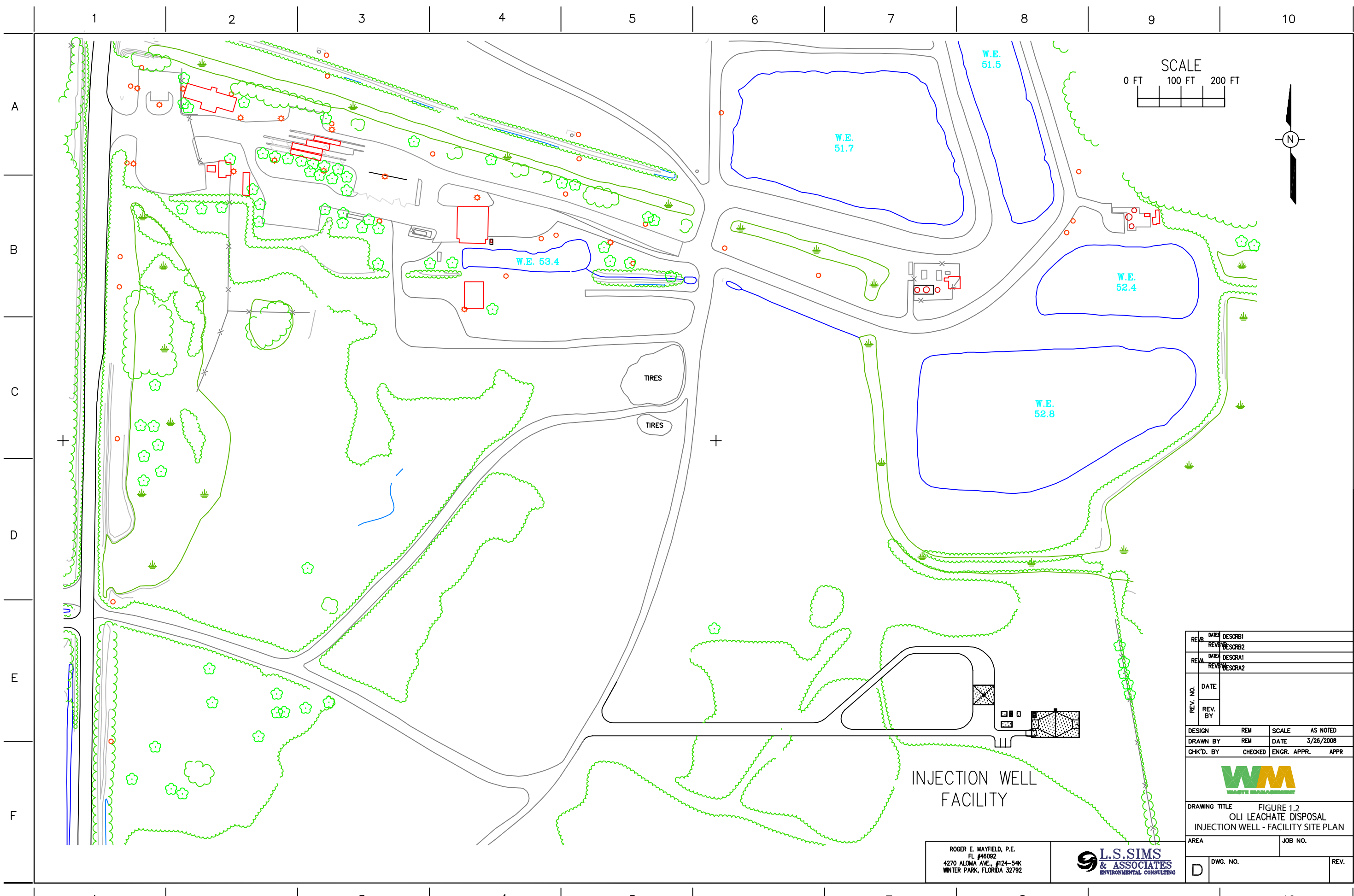


FIGURE 1.1  
 OKEECHOBEE LANDFILL, INC. (OLI)  
 SITE LOCATION MAP  
 OKEECHOBEE, FLORIDA



TIRES

TIRES

INJECTION WELL  
FACILITY

REV.	DATE	DESCRIB1
REV.	DATE	DESCRIB2
REV.	DATE	DESCR1A1
REV.	DATE	DESCR1A2
REV. NO.	DATE	
REV. BY		

DESIGN	REM	SCALE	AS NOTED
DRAWN BY	REM	DATE	3/26/2008
CHK'D. BY	CHECKED	ENGR. APPR.	APPR



DRAWING TITLE      FIGURE 1.2  
OLI LEACHATE DISPOSAL  
INJECTION WELL - FACILITY SITE PLAN

AREA	JOB NO.
D	DWG. NO.
	REV.

ROGER E. MAYFIELD, P.E.  
FL #46092  
4270 ALOMA AVE., #124-54K  
WINTER PARK, FLORIDA 32792



Elevation (feet) NGVD and Temperature Degrees C

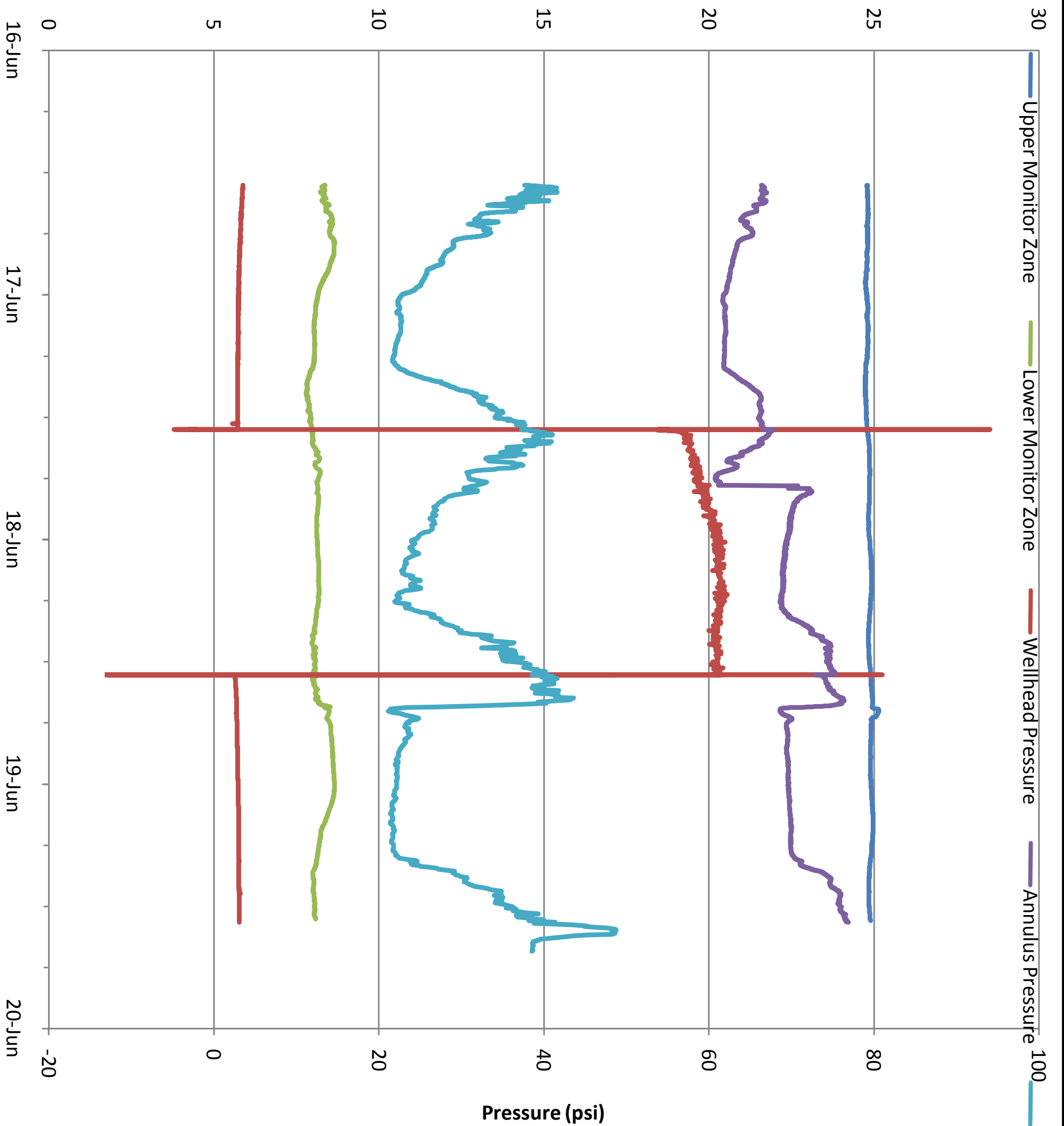
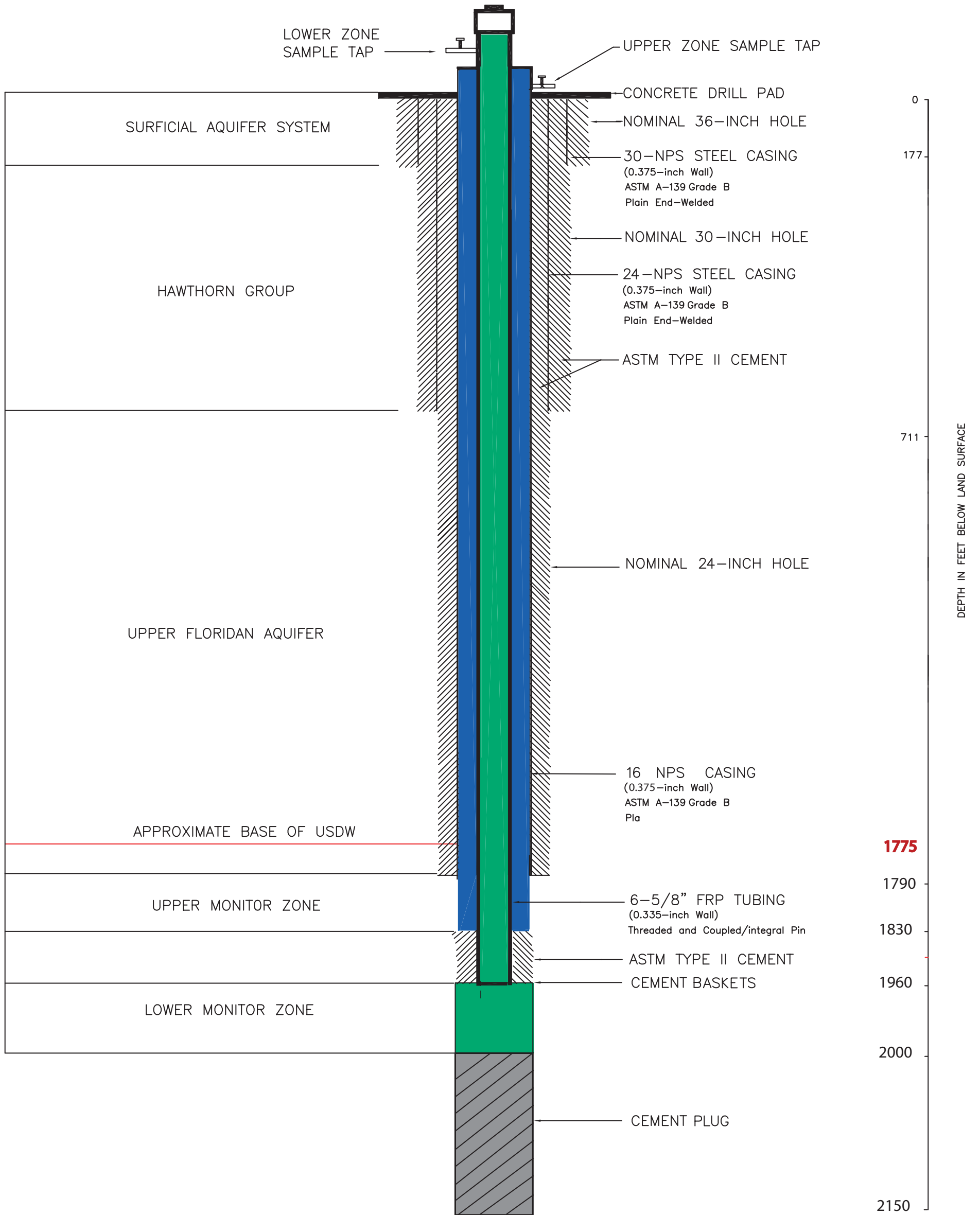


FIGURE 3.1  
INJECTION TEST RESULTS  
OKEECHOBEE LANDFILL, INC.  
OKEECHOBEE, FLORIDA

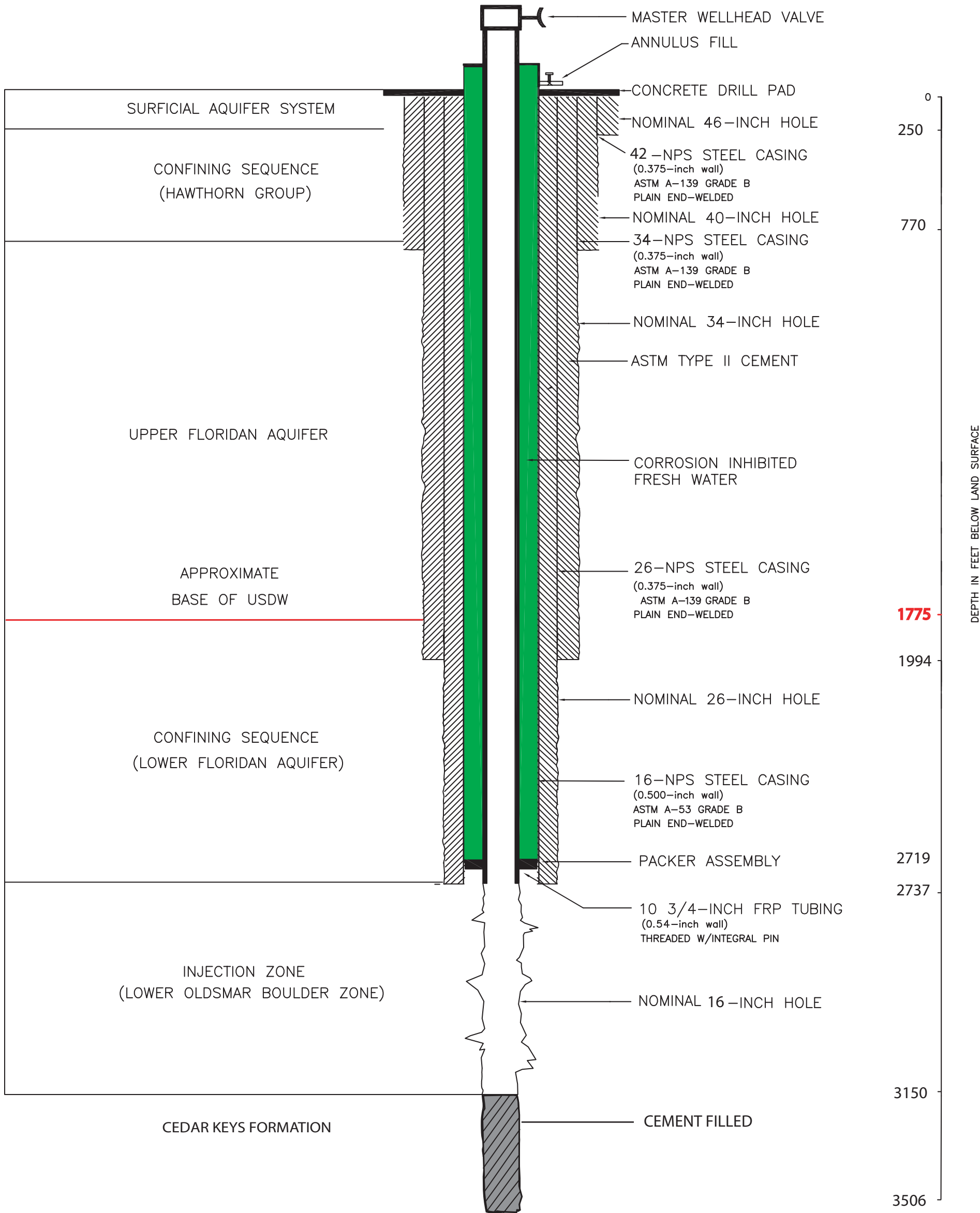
# Appendix A





4/28/09

2150  
NOT TO SCALE



04/26/09

NOT TO SCALE



# OKEECHOBEE LANDFILL INC. LEACHATE DISPOSAL INJECTION WELL

## AS BUILT CONDITIONS

### DRAWING LIST

#### GENERAL

G-1 IW SLAB - DIMENSIONAL PLAN

#### CIVIL

C-1 LEACHATE TRANSFER PIPELINE ROUTING

#### STRUCTURAL

S-1 STRUCTURAL NOTES

S-2 IW SLAB - STRUCTURAL PLAN

S-3 IW SLAB ELEVATION SCHEMATIC

S-4 CURB - SECTION A

S-5 CATCH BASIN - SECTION B

S-6 CONSTRUCTION JOINT DETAIL - SECTION C

S-7 STORMWATER SUMP - SECTION D

S-8 SLAB ACCESS RAMP - SECTION E

S-9 LEACHATE PUMP STATION - STRUCTURAL PLAN & DETAILS

S-10 IW SLAB - CONTROL JOINT PLAN

#### PIPING/MECHANICAL

P-1 WELLHEAD PIPING DETAIL

P-2 MW WELLHEAD PIPING DETAIL

P-3 LEACHATE PUMP STATION - PIPING PLAN

P-4 LEACHATE PUMP STATION - SECTION

P-5 INJECTION WELL PIPING PLAN


P-6 INJECTION WELL PIPING SECTION & DETAILS

P-7 ANNULUS VESSEL & STORMWATER PUMP

P-8 DUAL ZONE MONITORING WELL - INSTALLATION DETAILS

#### INSTRUMENTATION

I-1 PROCESS & INSTRUMENTATION DIAGRAM

REV.			
REV.			
REV. NO.		AS BUILT CONDITIONS 6/24/09	
BY			
DESIGN	REM	SCALE	
DRAWN BY	REM	DATE	11/8/08
CHK'D. BY	REM	ENGR. APPR.	REM
			
DRAWING TITLE OKEECHOBEE LANDFILL INC. LEACHATE INJECTION WELL PROJECT			
AREA		JOB NO.	
D	DWG. NO.	REV.	REV.

ROGER E. MAYFIELD, P.E. FL #48082  
REM ASSOCIATES, INC.  
CERTIFICATE OF AUTHORIZATION # 27387  
4270 ALDRA AVE., #21-54K  
WINTER PARK, FLORIDA 32792



1 2 3 4 5 6 7 8 9 10

A A

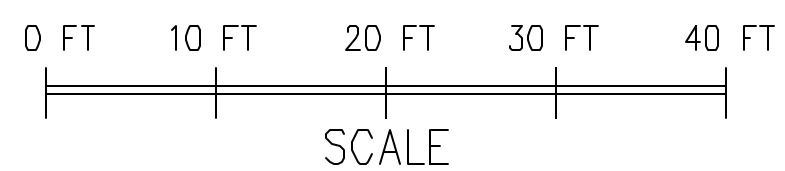
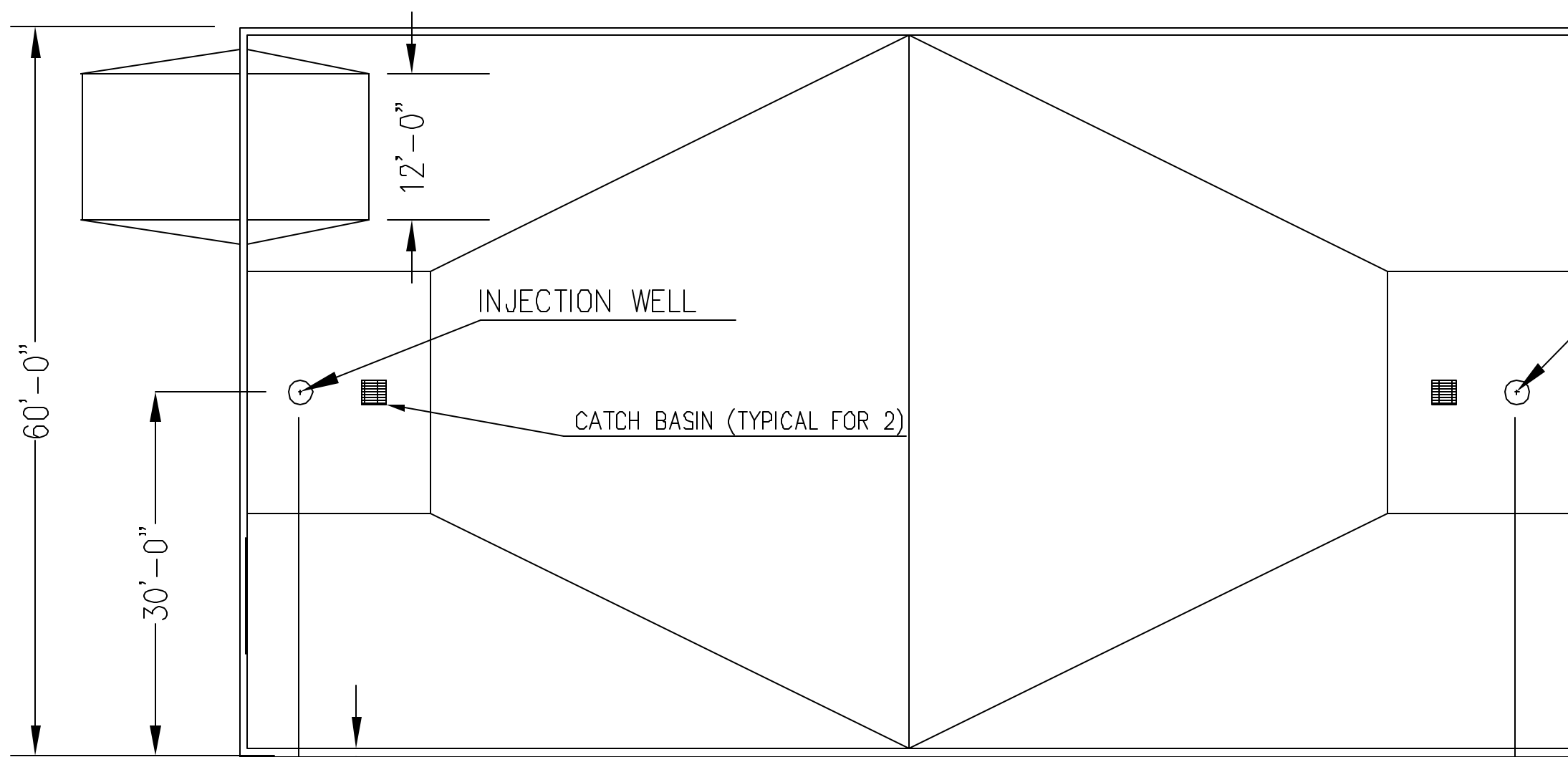
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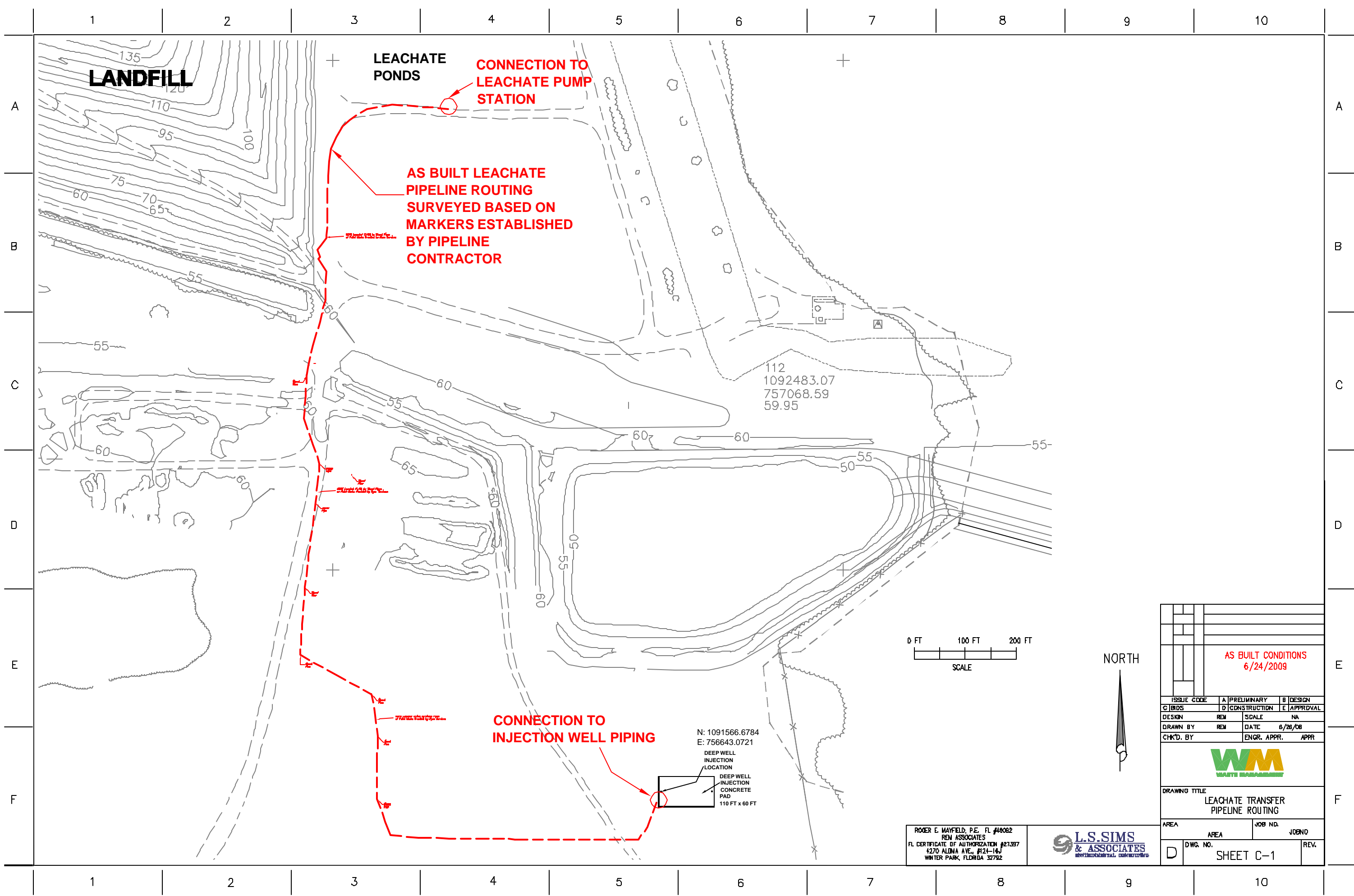


REV.			
REV.			
REV. NO.	AS BUILT CONDITIONS		
BY	6/24/09		
DESIGN	REM	SCALE	
DRAWN BY		DATE	11/8/08
CHK'D. BY	REM	ENGR. APPR.	REM
DRAWING TITLE			
OKEECHOBEE LANDFILL INC.			
LECHATE INJECTION WELL PROJECT			
IW SLAB - DIMENSIONAL PLAN			
AREA	JOB NO.		
D	DWG. NO.	G-1	REV.

ROGER E. MAYFIELD, P.E. FL #46082  
REM ASSOCIATES, INC.  
CERTIFICATE OF AUTHORIZATION # 27397  
4270 ALOMA AVE., #124-18A  
WINTER PARK, FLORIDA 32792



1 2 3 4 5 6 7 8 9 10



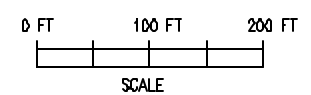
**LANDFILL**

**LEACHATE PONDS**  
**CONNECTION TO LEACHATE PUMP STATION**

**AS BUILT LEACHATE PIPELINE ROUTING SURVEYED BASED ON MARKERS ESTABLISHED BY PIPELINE CONTRACTOR**

**CONNECTION TO INJECTION WELL PIPING**

N: 1091566.6784  
 E: 756643.0721  
 DEEP WELL INJECTION LOCATION  
 DEEP WELL INJECTION CONCRETE PAD  
 110 FT x 60 FT



<b>AS BUILT CONDITIONS</b> 6/24/2009		
ISSUE CODE	A PRELIMINARY	B DESIGN
C BIDS	D CONSTRUCTION	E APPROVAL
DESIGN	REM	SCALE NA
DRAWN BY	REM	DATE 6/28/08
CHK'D. BY	ENGR. APPR.	APPR
DRAWING TITLE <b>LEACHATE TRANSFER PIPELINE ROUTING</b>		
AREA	AREA	JOB NO. JOEND
D	DWG. NO. <b>SHEET C-1</b>	REV.

ROGER E. MAYFIELD, P.E. FL #40082  
 REM ASSOCIATES  
 FL CERTIFICATE OF AUTHORIZATION #27397  
 4270 ALDINA AVE., #21-16,  
 WINTER PARK, FLORIDA 32792



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# STRUCTURAL NOTES


- 1. APPLICABLE BUILDING CODE: FLORIDA BUILDING CODE 2007.
- 2. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS.
- 3. THE CONTRACTOR SHALL USE NEW MATERIALS AND EMPLOY CONSTRUCTION METHODS THAT COMPLY WITH DRAWINGS AND SPECIFICATIONS. ANY DEVIATIONS MUST BE APPROVED BY THE PROJECT ENGINEER IN WRITING.
- 4. DESIGN LOADS:
  - A. SLAB ON GRADE: AASHTO HS20-44 W/ 25% IMPACT FACTOR
  - B. SEISMIC: ZONE 1
  - C. WIND: 125 MPH
  - D. ALLOWABLE SOIL BEARING: 2,000 PSF
- 5. THE FOLLOWING IS TO BE DONE WHERE NEW STRUCTURES OR SLABS ARE TO BE INSTALLED:
  - A. EXCAVATE TO THE BOTTOM OF THE STRUCTURE OR SLAB STRUCTURAL FILL. THE EXPOSED SUBGRADE IS TO BE INSPECTED FOR ANY TRASH, ROOTS OR ANY OTHER DELETERIOUS MATERIAL. ANY SUCH MATERIAL IS TO BE REMOVED.
  - B. THE SUBGRADE IS TO BE COMPACTED TO 95% OF MAXIMUM PROCTOR DENSITY AND TESTED BY AN INDEPENDENT SOILS ENGINEER FOR COMPACTION. THE CONTRACTOR IS TO BE RESPONSIBLE FOR OBTAINING AND PAYMENT OF THESE SERVICES. ANY AREAS NEEDING EXCAVATION BELOW THE SUBGRADE FOR REMOVAL OF DELETERIOUS MATERIAL ARE TO BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER.
- 6. CODES AND STANDARDS: COMPLY WITH THE FOLLOWING DOCUMENTS,
  - ACI 301 - STRUCTURAL CONCRETE FOR BUILDINGS.
  - ACI 318 - BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
  - ACI 347 - RECOMMENDED PRACTICE FOR CONCRETE FORMWORK.
- 7. MINIMUM CONCRETE STRENGTH AT 28 DAYS = 4,000 PSI. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI-318.
- 8. DESIGN MIX: AT LEAST 31 DAYS PRIOR TO START OF PLACING CONCRETE, SUBMIT DESIGN MIX FOR CONCRETE TO THE PROJECT ENGINEER, INDICATING THAT THE CONCRETE INGREDIENTS AND PROPORTIONS WILL RESULT IN A CONCRETE MIX MEETING REQUIREMENTS SPECIFIED.
- 9. REINFORCING STEEL SHALL BE NEW BILLET BARS, INTERMEDIATE GRADE AS PER ASTM A615 GRADE 60. WELDED WIRE FABRIC SHALL BE AS PER ASTM A185.
- 10. MINIMUM CLEAR COVER OVER REINFORCING BARS SHALL BE AS FOLLOWS:
  - A. CONCRETE AGAINST EARTH, UNFORMED: 3 INCHES.
  - B. CONCRETE AGAINST FORMWORK: 2 INCHES.

11. THE CONTRACTOR SHALL TEST THE WATER-TIGHTNESS OF STRUCTURES CONSTRUCTED UNDER THIS CONTRACT. TESTING SHALL BE PERFORMED AFTER THE CONCRETE IS AT LEAST SEVEN (7) DAYS OLD. TESTING FOR STRUCTURES DESIGNED TO CONTAIN LIQUID SHALL BE PERFORMED PRIOR TO PLACING ANY BACKFILL AROUND THE STRUCTURE. ALL STRUCTURES SHALL BE TESTED FOR LEAKAGE BY FILLING THEM TO THEIR NORMAL OPERATING LEVEL AND OBSERVING THE WATER LEVEL AT THE END OF A 24 HOUR PERIOD. THE DROP IN WATER LEVEL AFTER ADJUSTMENT FOR EVAPORATION AND RAINFALL SHALL NOT EXCEED 1/10 OF 1 PERCENT OF NORMAL VOLUME OF LIQUID CONTAINED IN WATER HOLDING STRUCTURE, AND DAMP SPOTS OR SEEPAGE ARE NOT PRESENT ON WALLS OR OTHER AREAS EXPOSED TO VIEW.

12. CURE FLOOR SURFACES IN ACCORDANCE WITH ACI 330B. ABSORPTIVE MAT: SATURATE BURLAP-POLYETHYLENE WITH WATER AND PLACE BURLAP-SIDE DOWN OVER FLOOR SLAB AREAS, LAPPING ENDS AND SIDES; MAINTAIN IN PLACE FOR 7 DAYS. CHECK AND ADD WATER DAILY AS NEEDED TO KEEP BURLAP SATURATED.

13. CONCRETE TESTING: THE CONTRACTOR SHALL EMPLOY AT HIS OWN EXPENSE A QUALIFIED INDEPENDENT TESTING LABORATORY, APPROVED BY THE ENGINEER, TO PERFORM THE INSPECTION AND TESTING SERVICES SPECIFIED IN ACI 301, "TESTING". PERFORM THE FOLLOWING REQUIRED TESTS:

- i. SAMPLING FRESH CONCRETE: ASTM C172, EXCEPT MODIFIED FOR SLUMP TO COMPLY WITH ASTM C94.
- ii. SLUMP: ASTM C143; ONE TEST FOR EACH CONCRETE LOAD AT POINT OF DISCHARGE; AND ONE FOR EACH SET OF STRENGTH TEST SPECIMENS.
- iii. AIR CONTENT: ASTM C231, PRESSURE METHOD FOR NORMAL WEIGHT CONCRETE; ONE FOR EVERY OTHER CONCRETE LOAD AT POINT OF DISCHARGE, OR WHEN THE INDICATION OF CHANGES REQUIRES.
- iv. STRENGTH TEST SPECIMENS: ASTM C31; ONE SET OF FOUR STANDARD CYLINDERS FOR EACH COMPRESSIVE STRENGTH TEST. CAST AND STORE CYLINDERS FOR LABORATORY CURED TEST SPECIMENS AS SPECIFIED IN ASTM C31.
- v. STRENGTH TESTS: ASTM C39 FOR COMPRESSION STRENGTH TESTS. MAKE COMPRESSIVE STRENGTH TESTS REPRESENTING ALL CONCRETE AND ONE SET FOR EACH 100 CU YDS., OR FRACTION THEREOF (MINIMUM OF 5 TESTS REQUIRED). REPORT TEST RESULTS IN WRITING TO THE PROJECT ENGINEER.
- vi. CERTIFIED LABORATORY REPORT SHALL STATE WHETHER THE REPORTED TESTS COMPLY OR DO NOT COMPLY WITH THE SPECIFICATION

REV.			
REV.			
REV. NO.	AS BUILT CONDITIONS		
BY	6/24/09		
DESIGN	REM	SCALE	
DRAWN BY		DATE	11/8/08
CHK'D. BY	REM	ENGR. APPR.	REM
			
DRAWING TITLE OKEECHOBEE LANDFILL INC. LECHATE INJECTION WELL PROJECT STRUCTURAL NOTES			
AREA	JOB NO.		
D	DWG. NO.	S-1	REV. REV.

ROGER E. MAYFIELD, P.E. FL #46082  
 REM ASSOCIATES, INC.  
 CERTIFICATE OF AUTHORIZATION # 27397  
 4270 ALDINA AVE., #214-54K  
 WINTER PARK, FLORIDA 32792



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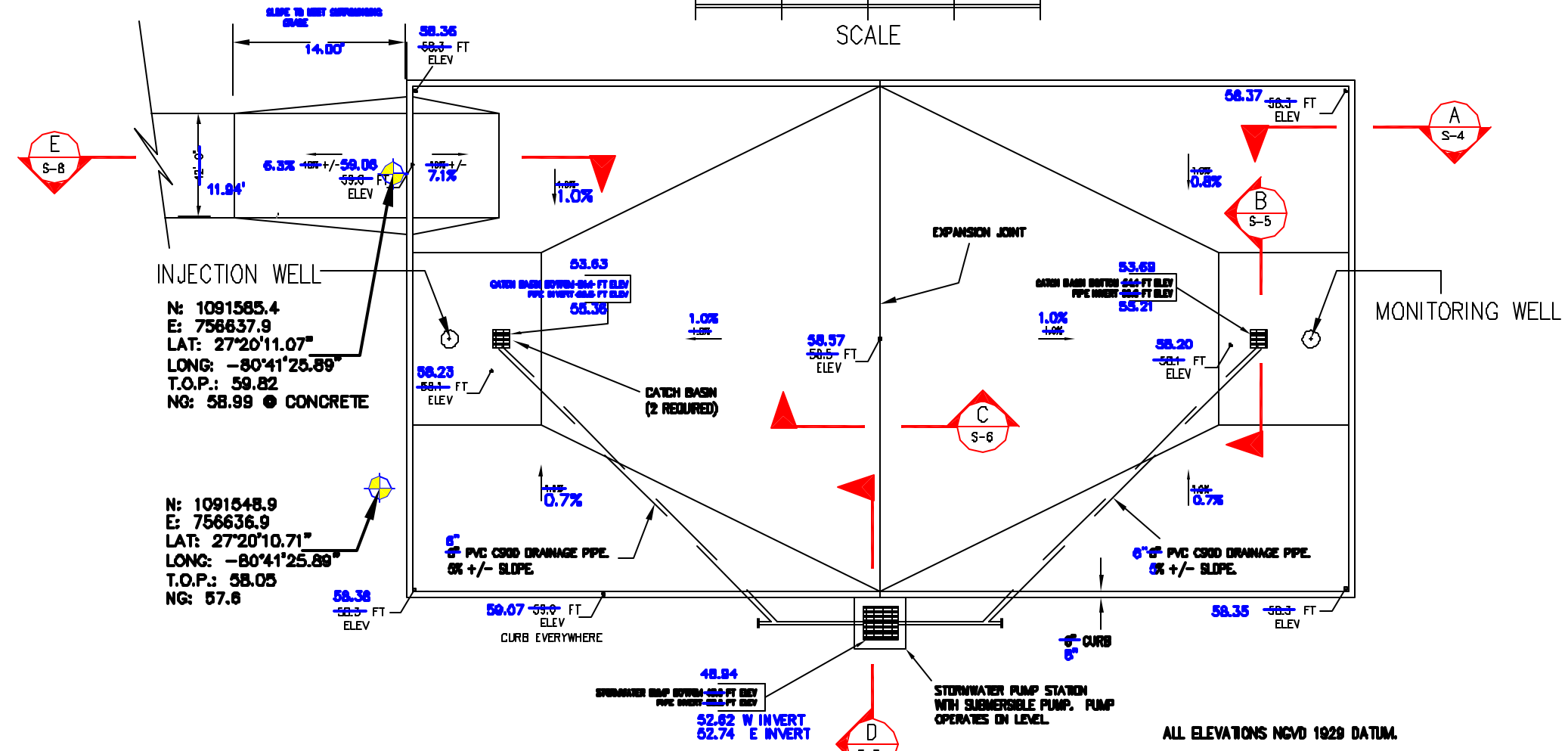
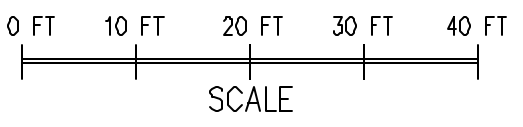
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**WELL SLAB STRUCTURAL PLAN**  
 SCALE: AS NOTED

- AS-BUILT LEGEND:**
- 40.00 = DESIGN PLAN
  - 10.00 = AS-BUILT
  - INL. W. = INJECTION WELL
  - M.W. = MONITOR WELL
  - ⊕ = MONITOR WELL
  - N = NORTHING
  - E = EASTING
  - LAT = LATITUDE
  - LONG = LONGITUDE
  - T.O.P. = TOP OF PIPE
  - NG = NATURAL GROUND

NOTE: ALL ELEVATIONS SHOWN ARE IN NATIONAL GEODETIC VERTICAL DATUM (NGVD) 1929.

**CERTIFICATION**

I HEREBY CERTIFY THE ATTACHED SKETCH OF SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THAT IT MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF LAND SURVEYORS IN CHAPTER 61007-6, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO CHAPTER 476.027 FLORIDA STATUTES.

DATE OF LAST FIELD WORK 03-05-09 FOR THE FIRM: WANTMAN GROUP, INC.

DATE \_\_\_\_\_

DEWE & ZEMAN, P.S.M.  
 PROFESSIONAL SURVEYOR AND MAPPER  
 STATE OF FLORIDA LICENSE NO. 0088

**SURVEYOR'S NOTES**

1. THIS IS A RECORD/AS-BUILT SURVEY AS DEFINED IN CHAPTER 61017-6.005, FLORIDA ADMINISTRATIVE CODE. THE PURPOSE OF THIS SURVEY IS TO SHOW EXISTING ELEVATIONS AT THE INJECTION WELL PAD AT SPECIFIED LOCATIONS.
2. VERTICAL VALUES ARE BASED ON NATIONAL GEODETIC SURVEY POINT "C-357". A DISK AND A FIRST ORDER CLASS II VERTICAL POINT, HAVING A PUBLISHED ELEVATION OF 57.15' NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND AN ELEVATION OF 38.43' CONVERTED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29) USING A CONVERSION VALUE OF 1.28'.
3. HORIZONTAL VALUES SHOWN HEREON ARE REFERENCED TO THE STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE, NAD 1983, (2007 ADJUSTMENT).
4. UNLESS IT BEARS THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER EMPLOYED BY WANTMAN GROUP, INC., THIS REPORT, SKETCH, PLAN OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
5. WANTMAN GROUP, INCORPORATED, CERTIFICATE OF AUTHORIZATION NO. 7055, IS ISSUED BY THE FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION.
6. THIS SURVEY DOES NOT REFLECT NOR DETERMINE OWNERSHIP.

**Wantman Group, Inc.**  
 Engineering • Planning • Surveying • Environmental  
 2036 1961A PARKWAY, SUITE 140 WEST PALM BEACH, FL 33411 (3044)  
 904-320-9900 (EXT) 904-110-1000  
 904-320-9901 - LP NO. 7855  
 JACKSONVILLE - ORLANDO - WEST OF WOODS - TAMPA  
 www.wantmangroup.com

DRAWING PATH:  
 DRAWING NAME: S-2 S-3.DWG  
 DRAWN BY: DS  
 CHECKED BY: DCZ  
 JOB NUMBER: 306928.00  
 FIELD DATE: 02-23-09  
 SHEET 1 of 2

ROGER E. MAYFIELD, P.E. FL #16082  
 REM ASSOCIATES, INC.  
 CERTIFICATE OF AUTHORIZATION # 27397  
 4270 ALONIA AVE., #21-54K  
 WINTER PARK, FLORIDA 32782

**L.S. SIMS & ASSOCIATES**  
 CIVIL/MECHANICAL ENGINEERS

REV#			
REV#			
REV. NO.		AS BUILT CONDITIONS 6/24/2009	
BY			
DESIGN	REM	SCALE	
DRAWN BY		DATE	11/5/08
CHK'D. BY	REM	ENGR. APPR.	REM
DRAWING TITLE OKEECHOBEE LANDFILL INC. LECHASE INJECTION WELL PROJECT IW SLAB - STRUCTURAL PLAN			
AREA		JOB NO.	
D	DWG. NO.	S-2	REV.

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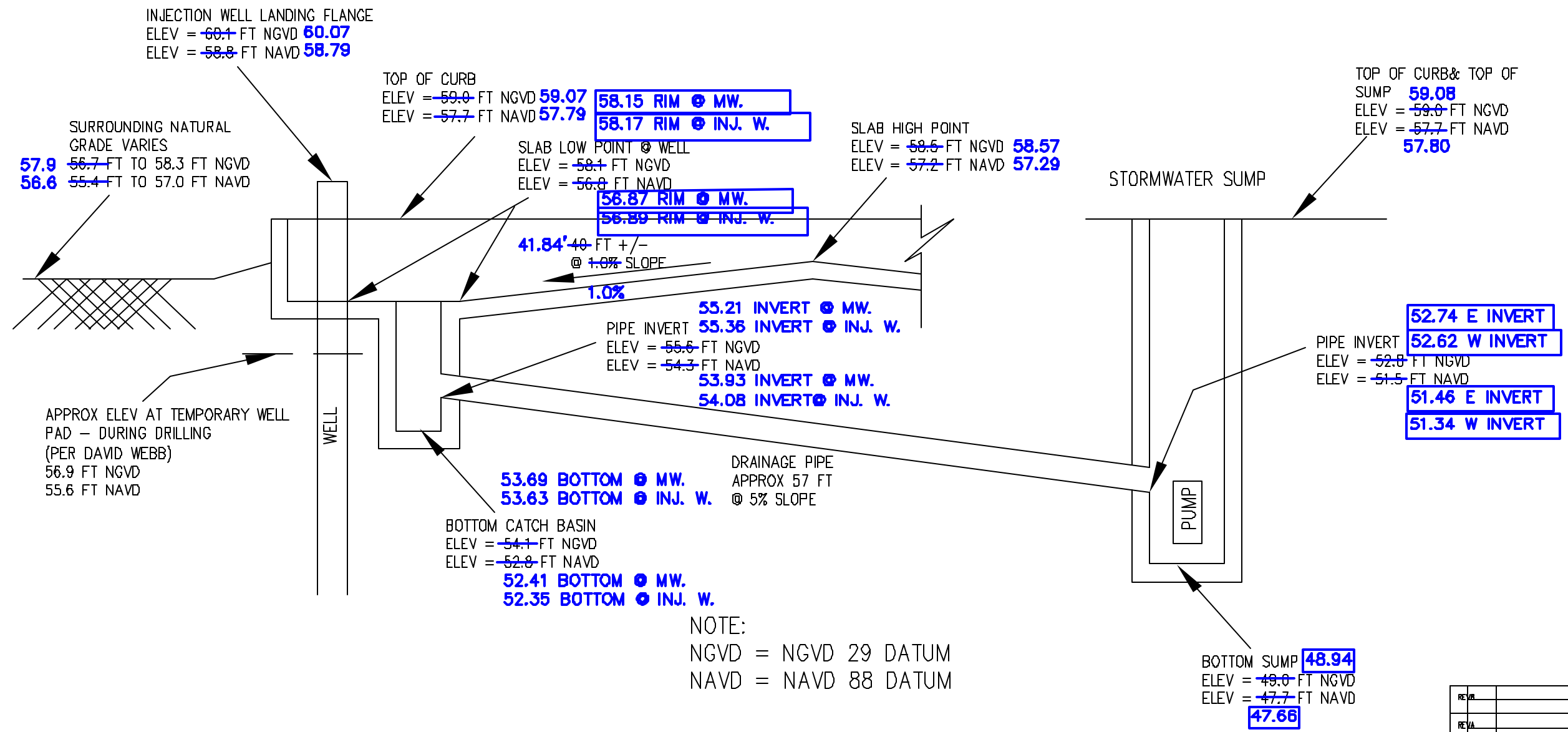
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# WELL SLAB ELEVATION SCHEMATIC

NOT TO SCALE

- AS-BUILT LEGEND:**
- 4800 = DESIGN PLAN
  - 10.00 = AS-BUILT
  - INJ. W. = INJECTION WELL
  - MW. = MONITOR WELL
  - ⊙ = MONITOR WELL
  - N = NORTHING
  - E = EASTING
  - LAT = LATITUDE
  - LONG = LONGITUDE
  - T.O.P. = TOP OF PIPE
  - NGI = NATURAL GROUND

**Wantman Group, Inc.**  
*Engineering • Planning • Surveying • Environmental*  
 2535 VERA PARKWAY, SUITE 101 WEST PALM BEACH, FL 33411 (PMB)  
 800-222-0000 (FL) 561-867-1110 (TX)  
 CERT. NO. 6091 - LB No. 7653  
 JACKSONVILLE - ORLANDO - PORT ST. LUCIE - TAMPA  
 www.wantmangroup.com

DRAWING PATH:  
 DRAWING NAME: S-2 S-3.DWG  
 DRAWN BY: GS      JOB NUMBER: J207022.00  
 CHECKED BY: DCZ      FIELD DATE: 02-23-09  
 SHEET *Model* OF 2

ROGER E. MAYFIELD, P.E. FL #46092  
 REM ASSOCIATES, INC.  
 CERTIFICATE OF AUTHORIZATION # 27307  
 4270 ALDENA AVE., #24-34K  
 WINTER PARK, FLORIDA 32782



REV. NO.			
REV. NO.			
REV. NO.			
BY	AS BUILT CONDITIONS 6/24/2009		
DESIGN BY	REM	SCALE	
DRAWN BY		DATE	11/8/08
CHK'D. BY	REM	ENGR. APPR.	REM
DRAWING TITLE OKEECHOBEE LANDFILL INC. LEGHATE INJECTION WELL PROJECT IW SLAB ELEVATION SCHEMATIC			
AREA		JOB NO.	
D	DWG. NO. S-3	REV.	

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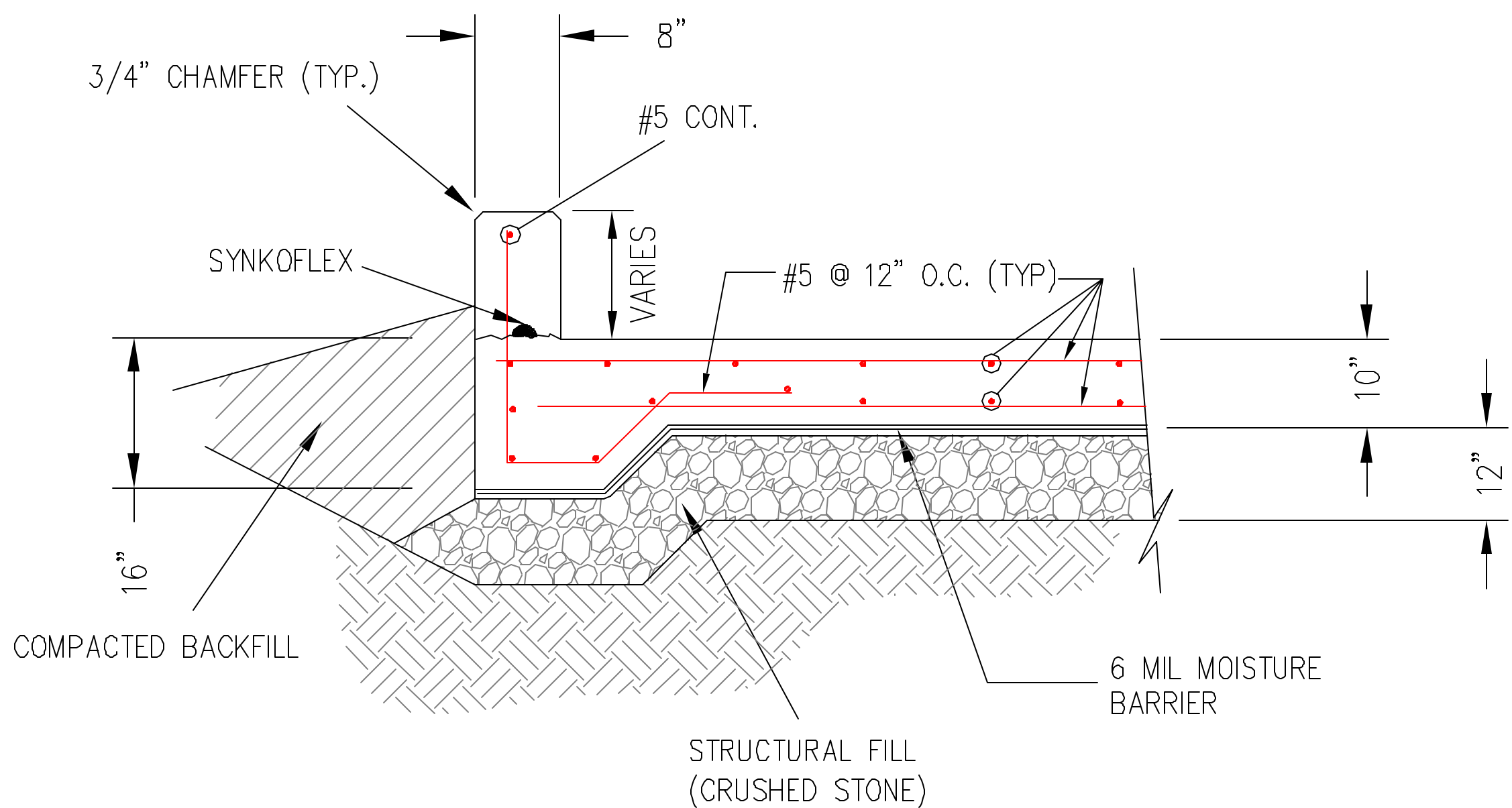
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E E

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SECTION A  
AS NOTED

REV.			
REV.			
REV. NO.		AS BUILT CONDITIONS 6/24/09	
BY			
DESIGN	REM	SCALE	
DRAWN BY		DATE	11/8/08
CHK'D. BY	REM	ENGR. APPR.	REM
			
DRAWING TITLE			
OKEECHOBEE LANDFILL INC. LECHATE INJECTION WELL PROJECT SECTION A			
AREA		JOB NO.	
D	DWG. NO.	S-4	REV.

ROGER E. MAYFIELD, P.E. FL #46092  
REM ASSOCIATES, INC.  
CERTIFICATE OF AUTHORIZATION # 27307  
4270 ALDENA AVE., #24-34K  
WINTER PARK, FLORIDA 32782

 L.S. SIMS  
& ASSOCIATES  
MECHANICAL CONTRACTORS

1 2 3 4 5 6 7 8 9 10

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A

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DRILLED IN FOLLOWING  
SLAB POUR

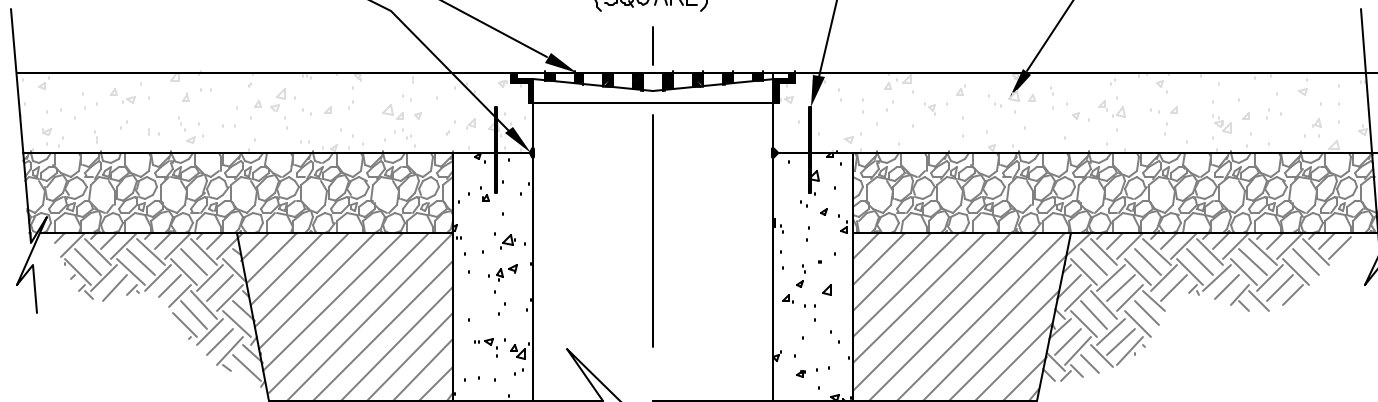
#5 REBAR DOWELS AT  
6" D.C.

24"x24" HEAVY DUTY  
C.I. FRAME & GRATE

SLAB REINFORCING NOT  
SHOWN. SEE SLAB  
DETAIL FOR  
REINFORCING.

CENTERLINE 24"  
PRECAST CONCRETE  
CATCH BASIN  
(SQUARE)

SEALANT



12" STRUCTURAL FILL  
(CRUSHED STONE)

COMPACTED BACKFILL

SECTION

B

AS NOTED

REV.	
REV.	
REV. NO.	AS BUILT CONDITIONS
BY	6/24/09

DESIGN	REM	SCALE
DRAWN BY		DATE 11/8/08
CHK'D. BY	REM	ENGR. APPR. REM



DRAWING TITLE  
OKEECHOBEE LANDFILL INC.  
LECHATE INJECTION WELL PROJECT  
SECTION B

AREA	JOB NO.
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D	DWG. NO. S-5	REV.
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ROGER E. MAYFIELD, P.E. FL #46092  
REM ASSOCIATES, INC.  
CERTIFICATE OF AUTHORIZATION # 27307  
4270 ALDENA AVE., #124-34K  
WINTER PARK, FLORIDA 32792



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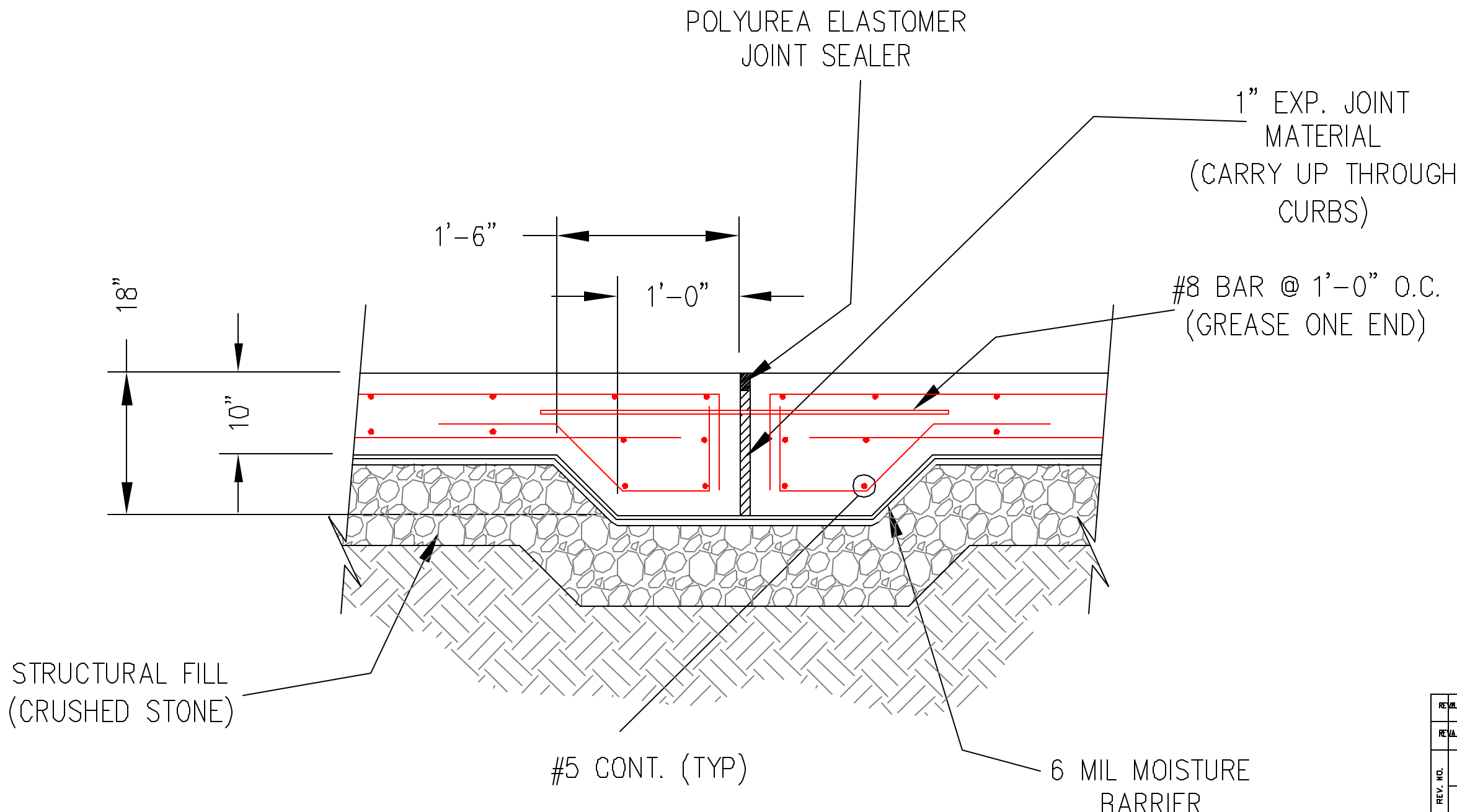
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SECTION C

AS NOTED

REV.			
REV.			
REV. NO.		AS BUILT CONDITIONS 6/24/09	
BY			
DESIGN	REM	SCALE	
DRAWN BY		DATE	11/8/08
CHK'D. BY	REM	ENGR. APPR.	REM
			
DRAWING TITLE OKEECHOBEE LANDFILL INC. LEACHATE INJECTION WELL PROJECT SECTION C			
AREA		JOB NO.	
D	DWG. NO.	S-6	REV.

ROGER E. MAYFIELD, P.E.  
FL #10082  
4270 ALDRA AVE., #24-54K  
WINTER PARK, FLORIDA 32782

 L.S. SIMS & ASSOCIATES  
ENVIRONMENTAL CONSULTING

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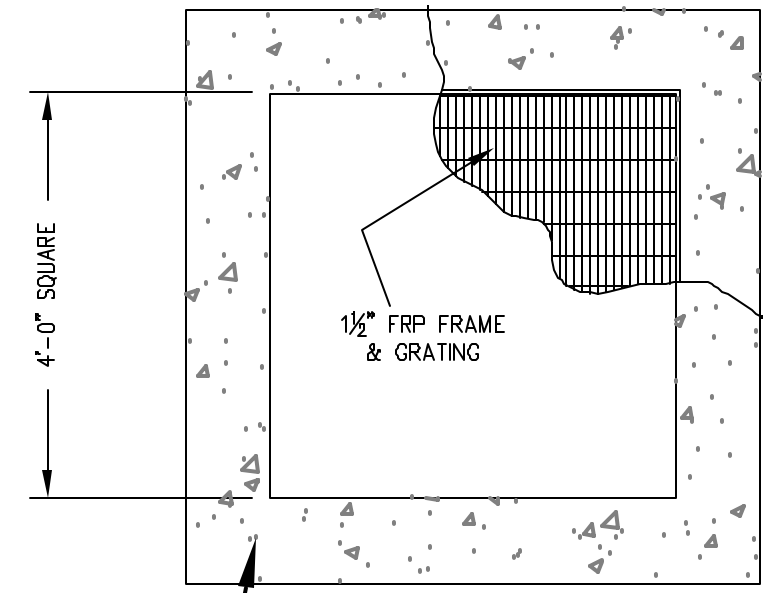
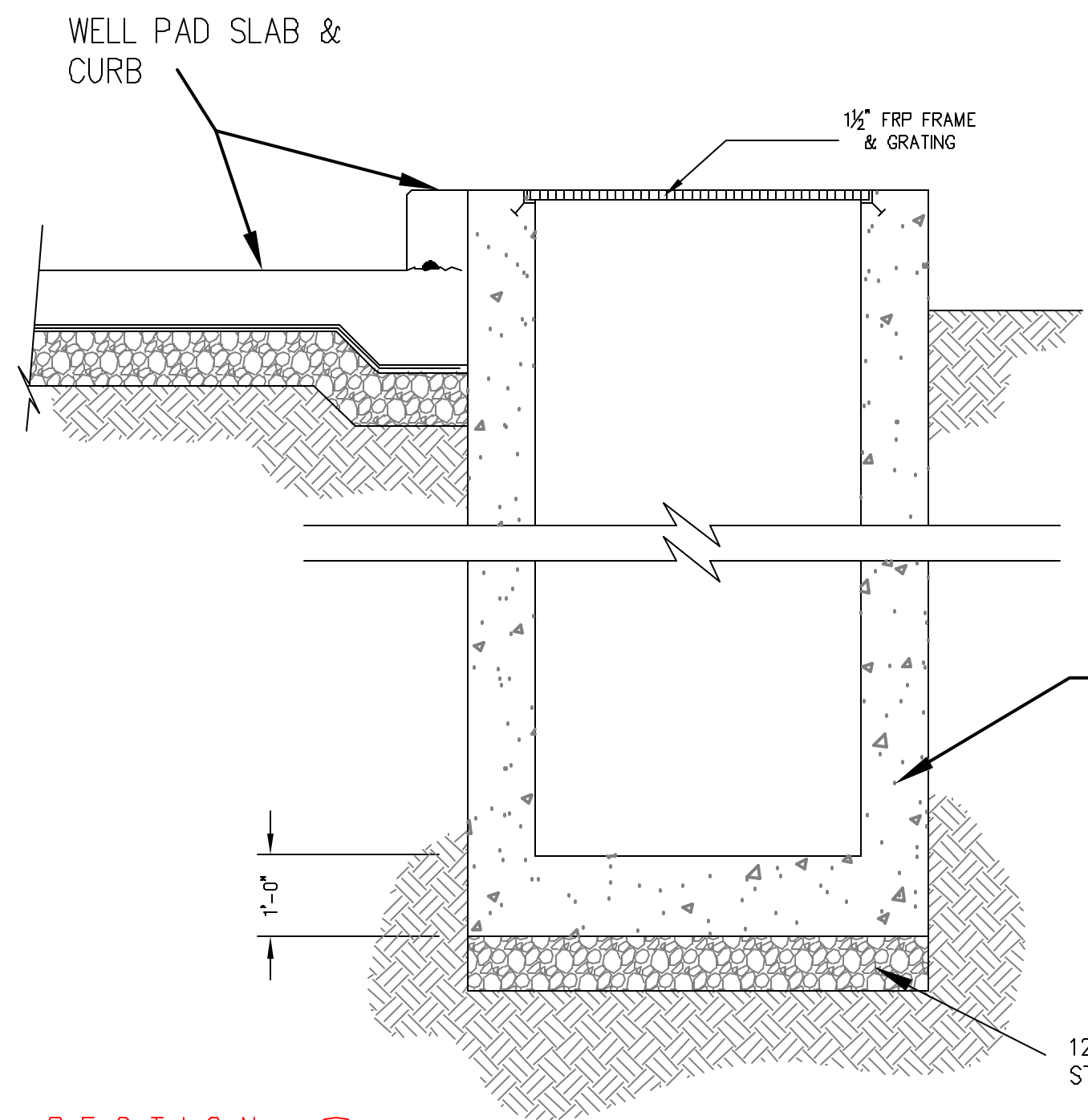
B

C

D

E

F



SUMP PLAN

PRE-CAST  
CONCRETE  
STRUCTURE

12" CRUSHED  
STONE

SECTION D  
AS NOTED

STORMWATER SUMP

REV.			
REV.			
REV. NO.	AS BUILT CONDITIONS 6/24/09		
BY			
DESIGN	REM	SCALE	
DRAWN BY		DATE	11/9/08
CHK'D. BY	REM	ENGR. APPR.	REM
DRAWING TITLE OKEECHOBEE LANDFILL INC. LECHATE INJECTION WELL PROJECT SECTION D			
AREA		JOB NO.	
D	DWG. NO.	S-7	REV. REV.

ROGER E. MAYFIELD, P.E.  
FL #10082  
4270 ALDRA AVE., #24-54K  
WINTER PARK, FLORIDA 32782

L.S. SIMS  
& ASSOCIATES  
ENVIRONMENTAL CONSULTING

1 2 3 4 5 6 7 8 9 10

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A A

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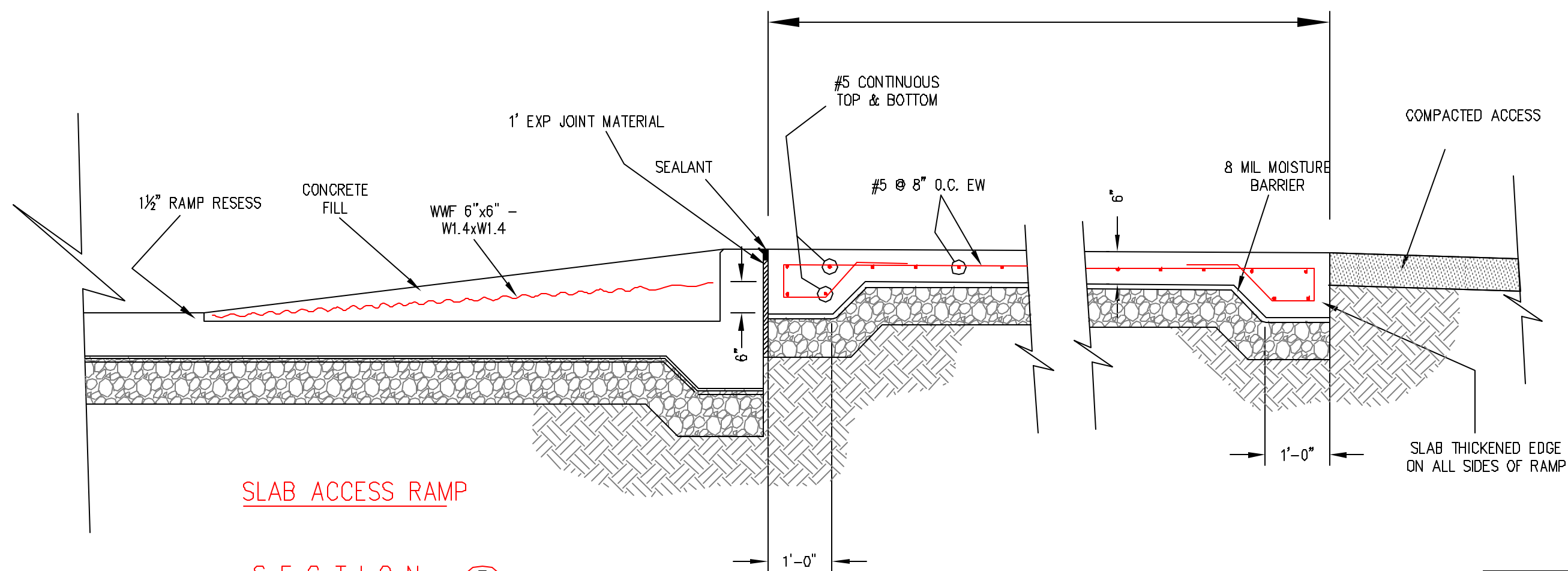
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SLOPED TO MEET SURROUNDING GRADE



SLAB ACCESS RAMP

SECTION E  
AS NOTED

REV.			
REV.			
REV. NO.		AS BUILT CONDITIONS 6/24/09	
BY			
DESIGN	REM	SCALE	
DRAWN BY		DATE	11/8/08
CHK'D. BY	REM	ENGR. APPR.	REM
			
DRAWING TITLE OKEECHOBEE LANDFILL INC. LEACHATE INJECTION WELL PROJECT SECTION E			
AREA		JOB NO.	
D	DWG. NO.	S-8	REV. REV.

ROGER E. MAYFIELD, P.E.  
FL #10082  
4270 ALDWA AVE., #24-54K  
WINTER PARK, FLORIDA 32782

 L.S. SIMS & ASSOCIATES  
ENVIRONMENTAL CONSULTANTS



1 2 3 4 5 6 7 8 9 10

0 FT 10 FT 20 FT 30 FT 40 FT

SCALE

A

A

B

B

INJECTION WELL

MONITOR WELL

CONTROL JOINT TYP.  
SEE DETAIL THIS PAGE

C

C

D

D

NORTH

POLYUREA ELASTOMER JOINT SEALER (OR APPROVED ALTERNATE)


TWO SEPARATE CONCRETE POURS  
DEVIDED BY EXPANSION JOINT

SAW-CUT 1.5"

DETAIL

A

AS NOTED

REV.			
REV.			
REV. NO.		<b>AS BUILT CONDITIONS</b>	
BY		<b>6/24/09</b>	
DESIGN	REM	SCALE	
DRAWN BY		DATE	11/8/08
CHK'D. BY	REM	ENGR. APPR.	REM
			
DRAWING TITLE OKEECHOBEE LANDFILL INC. LECHATE INJECTION WELL PROJECT IN SLAB - CONTROL JOINT PLAN			
AREA		JOB NO.	
DWG. NO.	S-10	REV.	REV

ROGER E. MAYFIELD, P.E. FL #46082  
REM ASSOCIATES, INC.  
CERTIFICATE OF AUTHORIZATION # 27397  
4270 ALONA AVE., #21-54K  
WINTER PARK, FLORIDA 32792

 **L.S. SIMS & ASSOCIATES**  
ENVIRONMENTAL CERTIFICATION

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D

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F

AIR RELEASE VALVE (ARV)

1/2" 316 SS VENT PIPING

8" 316 SS SPOOL PIECE - FLG x FLG

8" 316 SS BLD FLG

8" 316 SS BF VALVE - FLG x FLG

8" 316 SS SPOOL PIECE - FLG x FLG

8" X 10" 316 SS REDUCER - FLG x FLG

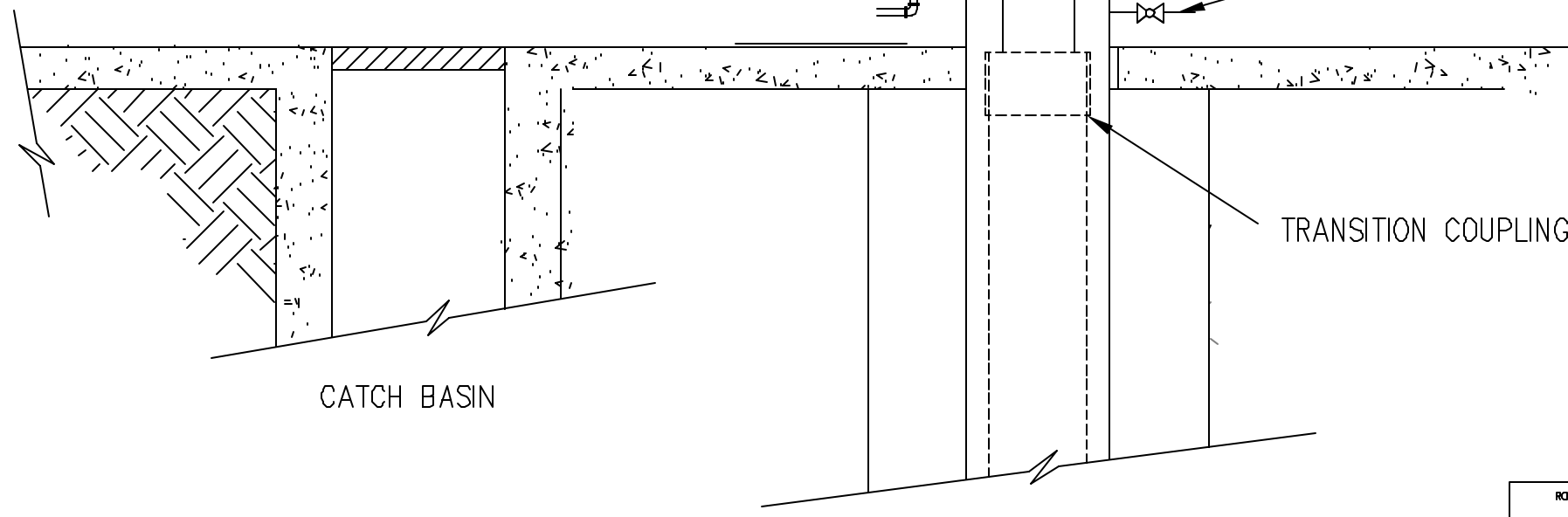
10" 316 SS GATE VALVE - FLG x FLG


10" 316 SS  
316 SS LANDING FLANGE  
316 SS SURFACE CASING

1" 316 SS WITH BALL VALVE

TRANSITION COUPLING - 10" FRP TO 10" 316 SS

CATCH BASIN



REV. NO.	REV.	DATE	BY
REV. NO.	REV.	DATE	BY
REV. NO.	REV.	DATE	BY
REV. NO.	REV.	DATE	BY
DESIGN	REM	SCALE	
DRAWN BY	REM	DATE	11/8/08
CHK'D. BY	REM	ENGR. APPR.	REM
			
DRAWING TITLE			
OKEECHOBEE LANDFILL INC.			
LECHATE INJECTION WELL PROJECT			
WELLHEAD PIPING DETAIL			
AREA	JOB NO.		
D	DWG. NO.	P-1	REV.

ROGER E. MAYFIELD, P.E.  
FL #16082  
4270 ALDRA AVE., #24-54K  
WINTER PARK, FLORIDA 32782

 **L.S. SIMS & ASSOCIATES**  
ENVIRONMENTAL ENGINEERS

1

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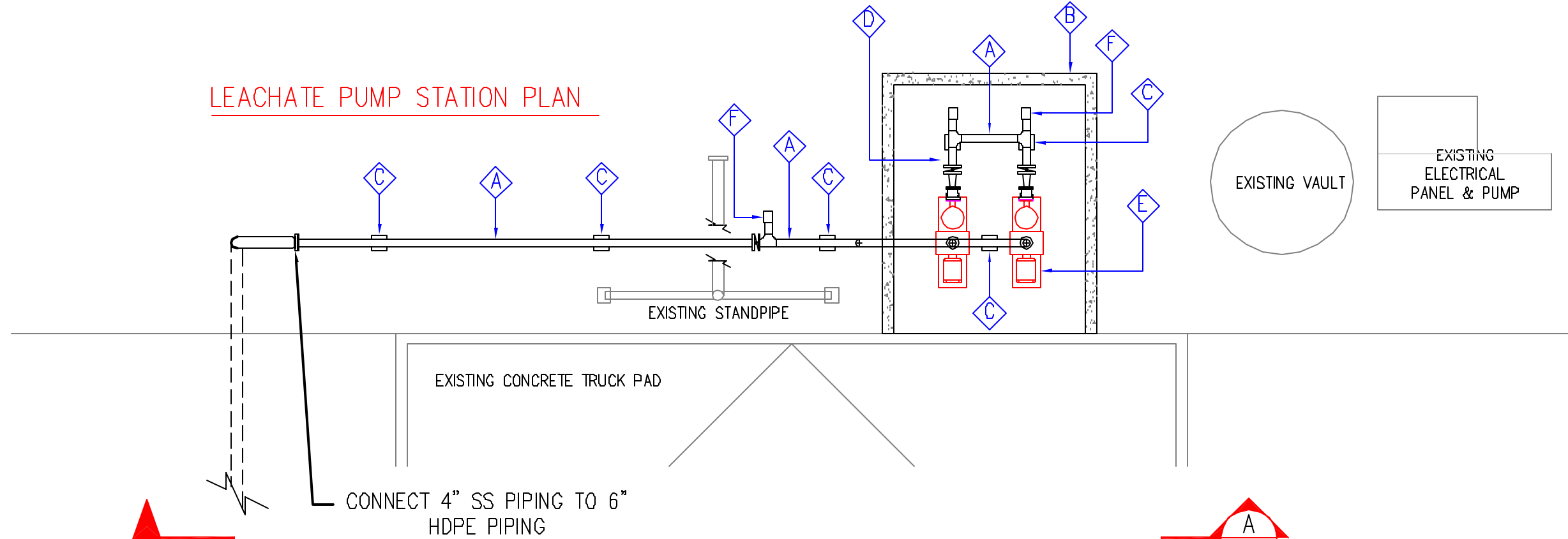
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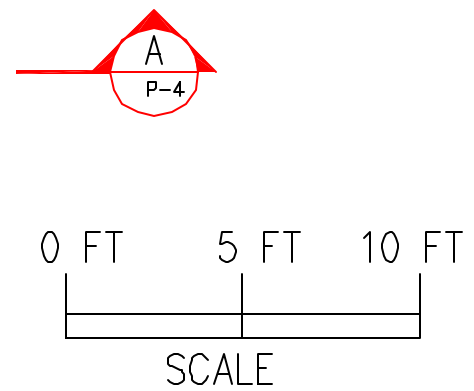




LEACHATE PUMP STATION PLAN



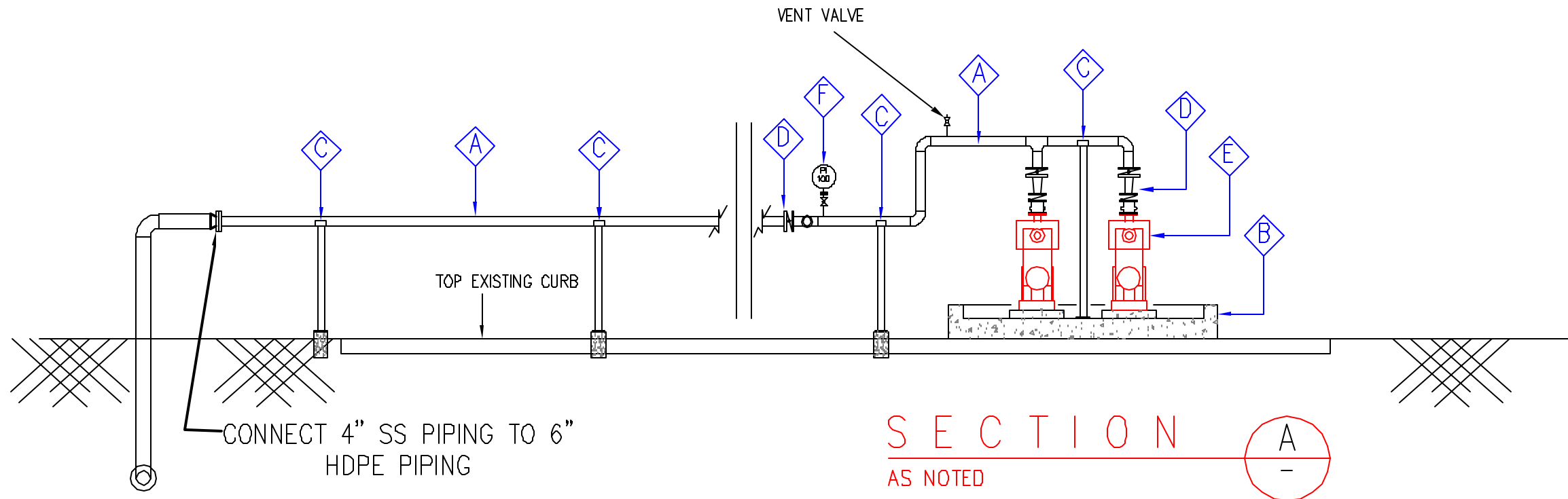
- SCOPE OF WORK THIS SHEET
- A** SHOP FABRICATED 4" SS PIPING.
  - B** CONCRETE PUMP SLAB WITH CURB. SEE SHT S-9.
  - C** SHOP FABRICATED PIPE SUPPORTS.
  - D** SEE SHT S-9 FOR CONCRETE BASE DETAIL.
  - E** 15 HP LEACHATE PUMPS INSTALLED ON 4" CONCRETE HOUSEKEEPING PADS. GROUT PUMP BASES.
  - F** 4" CAM-LOCK CONNECTIONS.



REV.			
REV.			
REV. NO.		<b>AS BUILT CONDITIONS</b> 6/24/09	
BY			
DESIGN	REM	SCALE	
DRAWN BY		DATE	9/25/08
CHK'D. BY	REM	ENGR. APPR.	REM
DEECHOBBEE LANDFILL, INC. LEACHATE INJECTION WELL PROJECT LEACHATE PUMP STATION - PLAN			
AREA		JOB NO.	
D	DWG. NO.	P-3	REV.


ROGER E. MAYFIELD, P.E.  
 FL #10082  
 4270 ALDWA AVE., #24-54K  
 WINTER PARK, FLORIDA 32782

**L.S. SIMS & ASSOCIATES**  
 CIVIL/Mechanical/Environmental



SCOPE OF WORK THIS SHEET

- A** SHOP FABRICATED 4" SS PIPING.
- B** CONCRETE PUMP SLAB WITH CURB. SEE SHT S-9.
- C** SHOP FABRICATED PIPE SUPPORTS. SEE SHT S-9 FOR CONCRETE BASE DETAIL.
- D** ALL VALVES TO BE INSTALLED BY CONTRACTOR.
- E** 15 HP LEACHATE PUMPS TO BE INSTALLED BY CONTRACTOR ON 4" CONCRETE HOUSEKEEPING PADS (6"x6" WWF). GROUT PUMP BASES.
- F** PRESSURE GAUGE.

REV.			
REV.			
REV. NO.	<b>AS BUILT CONDITIONS</b>		
BY	<b>6/24/09</b>		
DESIGN	REM	SCALE	
DRAWN BY		DATE	9/25/08
CHK'D. BY	REM	ENGR. APPR.	REM
			
DEECHOBBEE LANDFILL, INC. LEACHATE INJECTION WELL PROJECT LEACHATE PUMP STATION - SECTION			
AREA		JOB NO.	
D	DWG. NO.	P-4	REV.

ROGER E. MAYFIELD, P.E.  
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 4270 ALDWA AVE., #24-54K  
 WINTER PARK, FLORIDA 32782

**L.S. SIMS & ASSOCIATES**  
 CIVIL/Mechanical CONTRACTORS

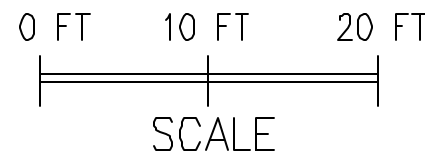
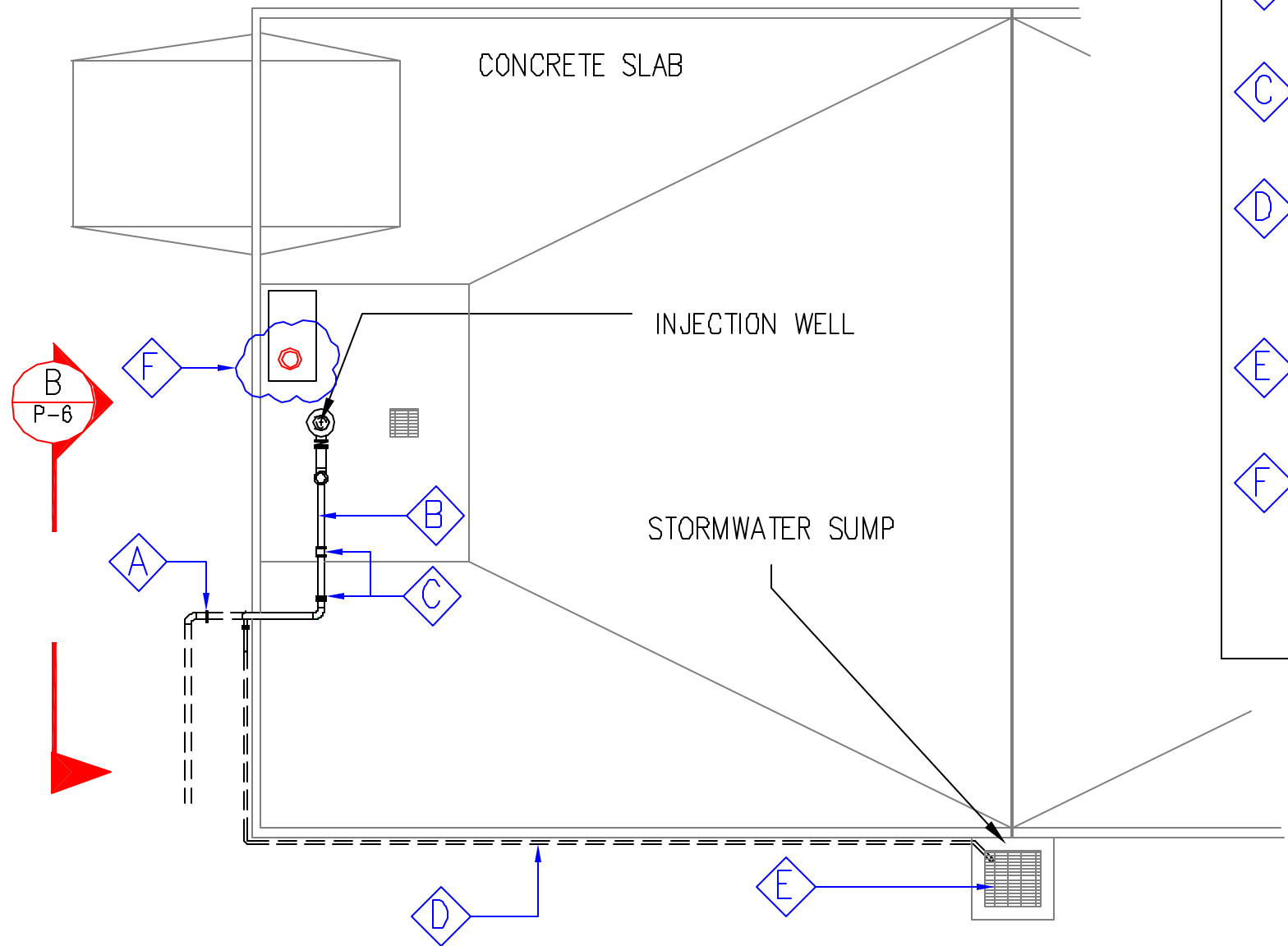
1 2 3 4 5 6 7 8 9 10

A  
B  
C  
D  
E  
F

A  
B  
C  
D  
E  
F

SCOPE OF WORK THIS SHEET

- A** CONNECT 6" SS PIPING TO 6" HDPE PIPING, FLG-TO-FLG.
- B** SHOP FABRICATED 6" SS PIPING.
- C** ALL VALVES & IN-LINE FLOW METER TO BE INSTALLED BY CONTRACTOR.
- D** 4" HDPE STORMWATER PIPING TO BE PROVIDED AND INSTALLED BY CONTRACTOR. MINIMUM COVER 3-FT.
- E** STORMWATER PUMP TO BE INSTALLED BY CONTRACTOR. SEE P-7 FOR DETAILS.
- F** ANNULUS VESSEL TO BE INSTALLED BY CONTRACTOR. SEE P-7 FOR DETAILS.



REV. NO.	REV.	
REV. NO.	REV.	
REV. NO.	BY	AS BUILT CONDITIONS 6/24/09
DESIGN	REM	SCALE
DRAWN BY	DATE	8/25/09
CHK'D. BY	ENGR. APPR.	REV.
<b>WM</b> WASTE MANAGEMENT		
DKEECHOBEE LANDFILL, INC. LEACHATE INJECTION WELL PROJECT INJECTION WELL PLAN		
AREA	JOB NO.	
D	DWG. NO.	REV.
	P-5	

ROGER E. MAYFIELD, P.E.  
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WINTER PARK, FLORIDA 32782

**L.S. SIMS**  
& ASSOCIATES  
ENVIRONMENTAL ENGINEERS

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

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C

D

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A

B

C

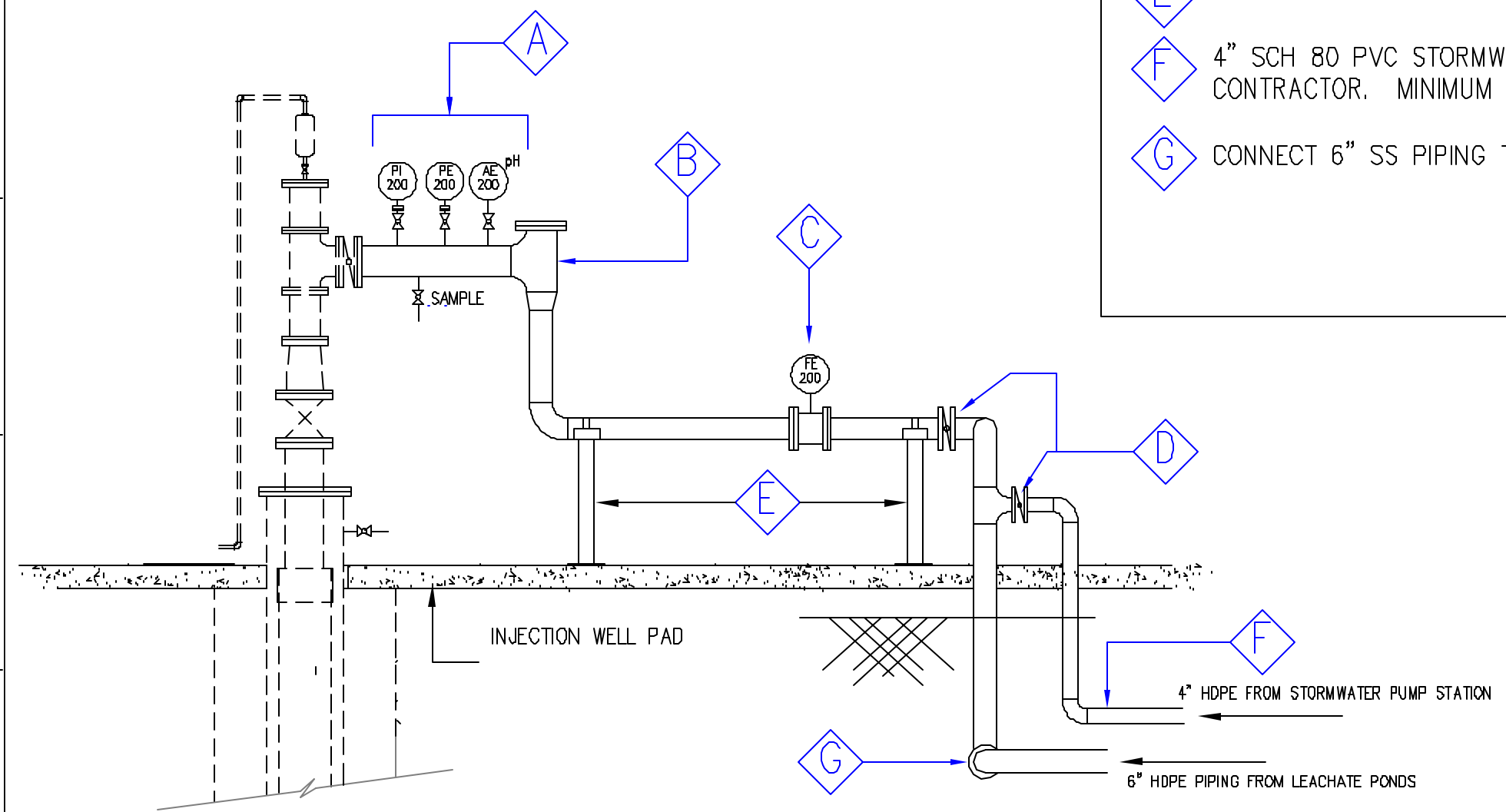
D

E

F

## SCOPE OF WORK THIS SHEET

- A CONTRACTOR TO INSTALL VALVES. PRESSURE GAUGE AND OTHER DEVICES TO BE INSTALLED BY OTHERS.
- B SHOP FABRICATED 6" SS PIPING.
- C IN-LINE FLOW METER. TO BE INSTALLED BY CONTRACTOR.
- D ALL VALVES TO BE INSTALLED BY CONTRACTOR.
- E SHOP FABRICATED PIPE SUPPORTS.
- F 4" SCH 80 PVC STORMWATER PIPING TO BE PROVIDED AND INSTALLED BY CONTRACTOR. MINIMUM COVER 3-FT.
- G CONNECT 6" SS PIPING TO 6" HDPE PIPING, FLG-TO-FLG.



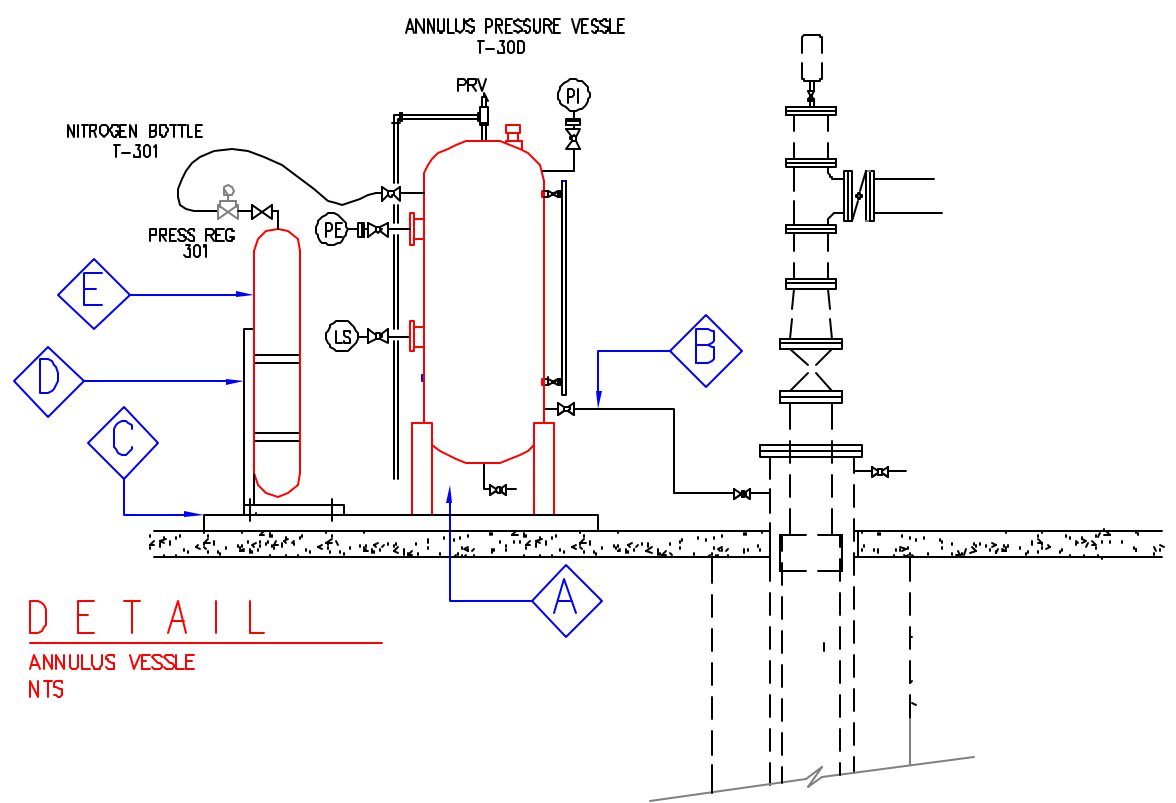
REV. NO.	REV.									
REV. NO.	REV.									
REV. NO.	BY	AS BUILT CONDITIONS 6/24/09								
DESIGN	REM	SCALE								
DRAWN BY	DATE	8/25/08								
CHK'D. BY	REVISION	ENGR. APPR.	REN							
DEKACHEBEE LANDFILL, INC. LEACHATE INJECTION WELL PROJECT INJECTION WELL PLAN										
AREA	JOB NO.									
D	DWG. NO.	P-6							REV.	

ROGER E. MAYFIELD, P.E.  
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 WINTER PARK, FLORIDA 32782

**L.S. SIMS & ASSOCIATES**  
 ENVIRONMENTAL CONSULTANTS

1 2 3 4 5 6 7 8 9 10

A



**DETAIL**  
ANNULUS VESSEL  
NTS

### SCOPE OF WORK

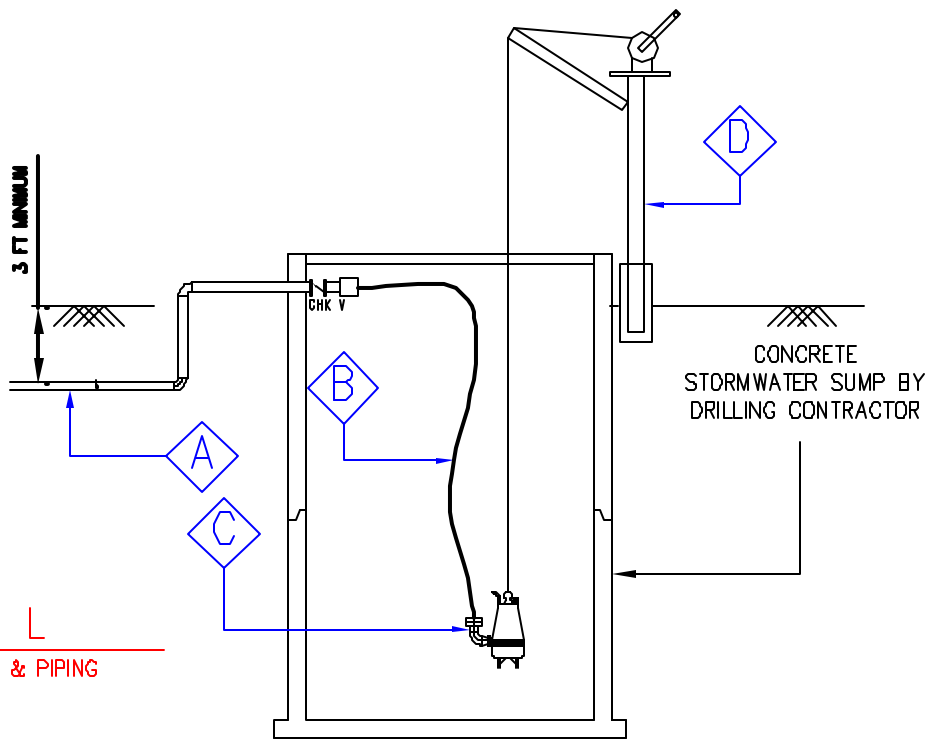
- A** ANNULUS VESSEL. CONTRACTOR TO INSTALL ON CONCRETE HOUSEKEEPING PAD WITH DRILLED/EPOXY ANCHOR BOLTS.
- B** CONTRACTOR TO INSTALL 1" SS PIPING & VALVES.
- C** 4" CONCRETE HOUSEKEEPING PAD. SEE DRAWING S-9 FOR DETAIL.
- D** NITROGEN BOTTLE HOLDING STAND. CONTRACTOR TO INSTALL ON CONCRETE HOUSEKEEPING PAD WITH DRILLED/EPOXY ANCHOR BOLTS.
- E** NITROGEN BOTTLE.

A

B

C

D



**DETAIL**  
STORMWATER PUMP & PIPING  
NTS

### SCOPE OF WORK

- A** CONTRACTOR TO INSTALL 4" HDPE PIPING. BURIED PIPING SHALL HAVE 3 FT MINIMUM COVER.
- B** 4" FLEX HOSE.
- C** SUBMERSIBLE PUMP.
- D** HOIST FOR PUMP RETRIEVAL.

D

E

F

REV.			
REV.			
REV. NO.	<b>AS BUILT CONDITIONS</b>		
BY	<b>6/24/2009</b>		
DESIGN	REM	SCALE	
DRAWN BY		DATE	9/25/08
CHK'D. BY	REM	ENGR. APPR.	REM
DKEECHOBEE LANDFILL, INC. LEACHATE INJECTION WELL PROJECT ANNULUS VESSEL & STORMWATER PUMP			
AREA		JOB NO.	
D	DWG. NO.	P-7	REV.

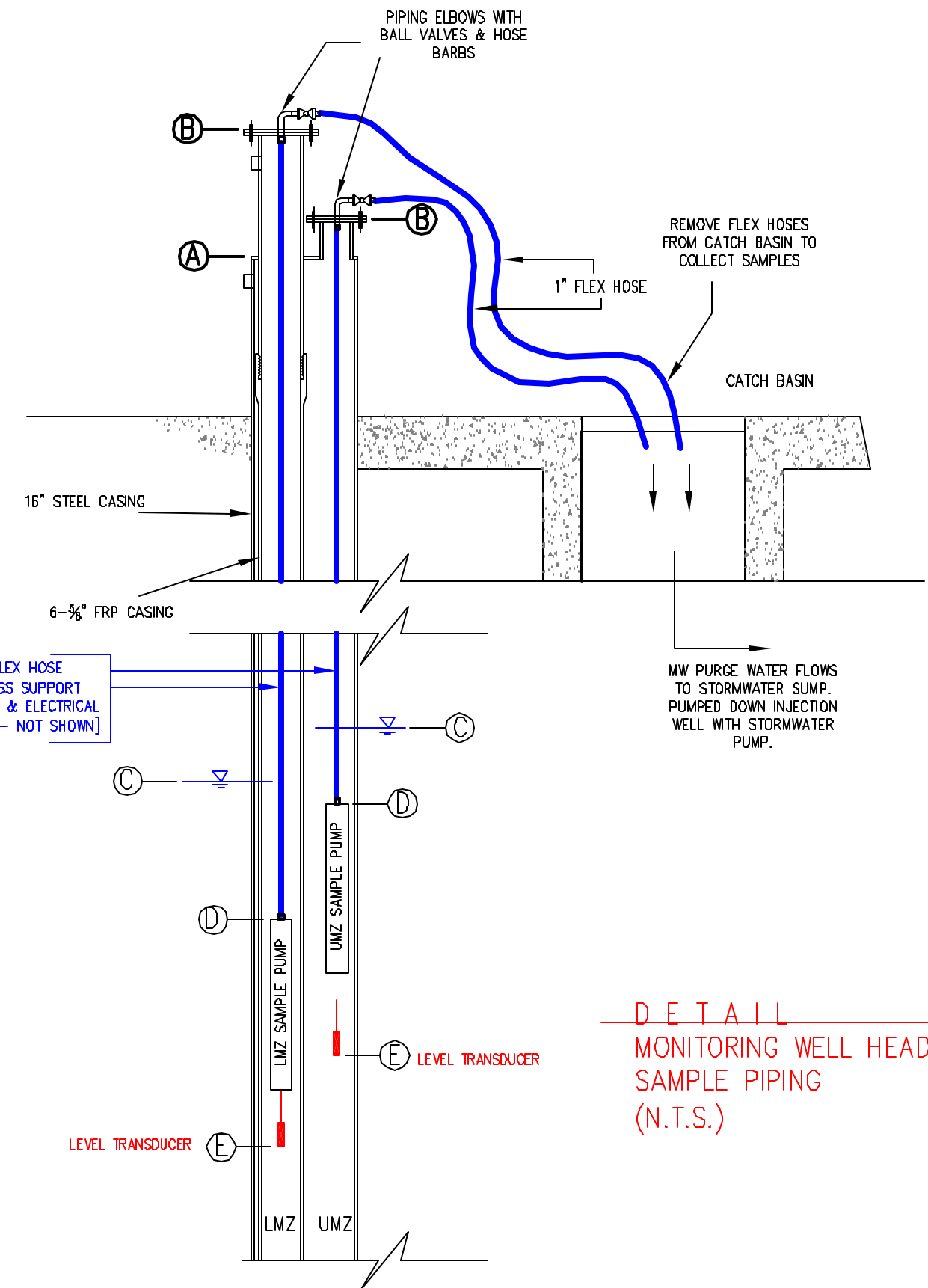
ROGER E. MAYFIELD, P.E.  
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4270 ALDWA AVE., #24-54K  
WINTER PARK, FLORIDA 32782

L.S. SIMS & ASSOCIATES  
MECHANICAL CONTRACTORS

1 2 3 4 5 6 7 8 9 10

A  
B  
C  
D  
E  
F

A  
B  
C  
D  
E  
F



Ⓐ LANDING FLANGE  
ELEV NGVD FT 60.2  
ELEV NAVD FT 58.9

LOWER MONITORING ZONE (LMZ)	UPPER MONITORING ZONE (UMZ)
Ⓑ WELL FLANGE ELEV NGVD FT 61.7 ELEV NAVD FT 60.4	Ⓑ WELL FLANGE ELEV NGVD FT 60.6 ELEV NAVD FT 59.4
Ⓒ WATER TABLE FOLLOWING RECOVERY PERIOD 6/19/09 DEPTH BELOW FLANGE FT 54 ELEV NGVD FT 7.7 ELEV NAVD FT 6.4	Ⓒ WATER TABLE FOLLOWING RECOVERY PERIOD 6/19/09 DEPTH BELOW FLANGE FT 37 ELEV NGVD FT 23.6 ELEV NAVD FT 22.4
Ⓓ TOP OF SUBMERSIBLE PUMP DEPTH BELOW FLANGE FT 76.0 ELEV NGVD FT -14.4 ELEV NAVD FT -15.6	Ⓓ TOP OF SUBMERSIBLE PUMP DEPTH BELOW FLANGE FT 46.4 ELEV NGVD FT 14.2 ELEV NAVD FT 12.9
Ⓔ BOTTOM OF LEVEL TRANSDUCER DEPTH BELOW FLANGE FT 85.3 ELEV NGVD FT -23.6 ELEV NAVD FT -24.9	Ⓔ BOTTOM OF LEVEL TRANSDUCER DEPTH BELOW FLANGE FT 65.0 ELEV NGVD FT -4.4 ELEV NAVD FT -5.6
READABLE RANGE	READABLE RANGE
MINIMUM ELEV ELEV NGVD FT -23.6 ELEV NAVD FT -24.9	MINIMUM ELEV ELEV NGVD FT -4.4 ELEV NAVD FT -5.6
MAXIMUM ELEVATION ELEV NGVD FT 36.4 ELEV NAVD FT 35.1	MAXIMUM ELEVATION ELEV NGVD FT 55.6 ELEV NAVD FT 54.4
LOCATIONS OF COMPONENTS AS OF INITIAL INSTALLATION 6/22/09	

1.25" FLEX HOSE  
[ALSO SS SUPPORT  
CABLES & ELECTRICAL  
LEADS - NOT SHOWN]

REMOVE FLEX HOSES  
FROM CATCH BASIN TO  
COLLECT SAMPLES

MW PURGE WATER FLOWS  
TO STORMWATER SUMP.  
PUMPED DOWN INJECTION  
WELL WITH STORMWATER  
PUMP.

**DETAIL**  
**MONITORING WELL HEAD**  
**SAMPLE PIPING**  
**(N.T.S.)**

SAMPLE PUMP TEST 6/21/2009	
BUCKET VOLUME (GAL) = 5.25	
TIME TO FILL - SEC	
LMZ 13.7	
UMZ 11.4	
FLOW - GPM	
LMZ 23.0	
UMZ 27.6	

REV. NO.	BY	DATE	SCALE
<b>AS BUILT CONDITIONS</b> 6/24/2009			
DESIGN BY	REVISION	DATE	SCALE
CHK'D. BY	REVISION	ENGR. APPR.	REV.
<b>WM</b> WASTE MANAGEMENT			
DKEECHOBEE LANDFILL INC. LEACHATE INJECTION WELL PROJECT DUAL ZONE MONITORING WELL - INSTALLATION DETAILS			
AREA	JOB NO.		
D	DWG. NO.	P-8	REV.

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**L.S. SIMS**  
& ASSOCIATES  
ENVIRONMENTAL CONSULTING

1 2 3 4 5 6 7 8 9 10





# Appendix B

## Tide Data

### Center for Operational Oceanographic Products and Services Data Disclaimer

These raw data have not been subjected to the National Ocean Service's quality control or quality assurance procedures and do not meet the criteria and standards of official National Ocean Service data. They are released for limited public use as preliminary data to be used only with appropriate caution.

### Tide Data

Station	Date	Time	Pred 6	Acoustic
DCP#:			1	1
Units:			Feet	Feet
Data%:	MLLW	Local	100.00	100.00
Maximum:			3.00	3.32
Minimum:			-0.14	0.28
-----	-----	-----	-----	-----
8722548	20090616	00:00	1.50	1.41
8722548	20090616	00:06	1.55	1.45
8722548	20090616	00:12	1.60	1.49
8722548	20090616	00:18	1.64	1.53
8722548	20090616	00:24	1.69	1.57
8722548	20090616	00:30	1.74	1.62
8722548	20090616	00:36	1.78	1.66
8722548	20090616	00:42	1.83	1.71
8722548	20090616	00:48	1.87	1.76
8722548	20090616	00:54	1.91	1.80
8722548	20090616	01:00	1.96	1.84
8722548	20090616	01:06	2.00	1.88
8722548	20090616	01:12	2.04	1.93
8722548	20090616	01:18	2.07	1.97
8722548	20090616	01:24	2.11	2.02
8722548	20090616	01:30	2.15	2.06
8722548	20090616	01:36	2.18	2.10
8722548	20090616	01:42	2.22	2.14
8722548	20090616	01:48	2.25	2.18
8722548	20090616	01:54	2.28	2.22
8722548	20090616	02:00	2.31	2.26
8722548	20090616	02:06	2.34	2.29
8722548	20090616	02:12	2.37	2.33
8722548	20090616	02:18	2.39	2.37
8722548	20090616	02:24	2.41	2.40
8722548	20090616	02:30	2.43	2.43
8722548	20090616	02:36	2.45	2.46
8722548	20090616	02:42	2.47	2.49
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8722548	20090616	03:48	2.46	2.68
8722548	20090616	03:54	2.44	2.68
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8722548	20090616	04:42	2.18	2.38
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8722548	20090616	05:18	1.88	2.14
8722548	20090616	05:24	1.83	2.09
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8722548	20090616	06:18	1.34	1.60
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8722548	20090616	06:54	1.05	1.29
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8722548	20090616	07:06	0.96	1.19
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8722548	20090616	07:24	0.83	1.04
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8722548	20090616	10:00	0.22	0.51
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8722548	20090616	10:12	0.24	0.53
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8722548	20090616	15:42	2.52	2.64
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8722548	20090616	18:12	1.88	2.21
8722548	20090616	18:18	1.84	2.17
8722548	20090616	18:24	1.79	2.11
8722548	20090616	18:30	1.74	2.06
8722548	20090616	18:36	1.69	2.02
8722548	20090616	18:42	1.65	1.97
8722548	20090616	18:48	1.61	1.92
8722548	20090616	18:54	1.56	1.89
8722548	20090616	19:00	1.52	1.85
8722548	20090616	19:06	1.47	1.81
8722548	20090616	19:12	1.44	1.76
8722548	20090616	19:18	1.40	1.71
8722548	20090616	19:24	1.36	1.65
8722548	20090616	19:30	1.32	1.60
8722548	20090616	19:36	1.28	1.55
8722548	20090616	19:42	1.24	1.51
8722548	20090616	19:48	1.21	1.46
8722548	20090616	19:54	1.17	1.42
8722548	20090616	20:00	1.14	1.37
8722548	20090616	20:06	1.11	1.33
8722548	20090616	20:12	1.07	1.28
8722548	20090616	20:18	1.04	1.24
8722548	20090616	20:24	1.01	1.21
8722548	20090616	20:30	0.98	1.18

8722548	20090616	20:36	0.94	1.14
8722548	20090616	20:42	0.91	1.11
8722548	20090616	20:48	0.88	1.09
8722548	20090616	20:54	0.85	1.06
8722548	20090616	21:00	0.82	1.03
8722548	20090616	21:06	0.79	1.01
8722548	20090616	21:12	0.77	0.99
8722548	20090616	21:18	0.74	0.97
8722548	20090616	21:24	0.72	0.95
8722548	20090616	21:30	0.69	0.94
8722548	20090616	21:36	0.67	0.94
8722548	20090616	21:42	0.65	0.94
8722548	20090616	21:48	0.64	0.94
8722548	20090616	21:54	0.62	0.94
8722548	20090616	22:00	0.61	0.94
8722548	20090616	22:06	0.61	0.94
8722548	20090616	22:12	0.60	0.94
8722548	20090616	22:18	0.60	0.94
8722548	20090616	22:24	0.60	0.95
8722548	20090616	22:30	0.61	0.95
8722548	20090616	22:36	0.61	0.95
8722548	20090616	22:42	0.62	0.95
8722548	20090616	22:48	0.64	0.96
8722548	20090616	22:54	0.66	0.96
8722548	20090616	23:00	0.68	0.96
8722548	20090616	23:06	0.71	0.97
8722548	20090616	23:12	0.74	0.98
8722548	20090616	23:18	0.77	0.99
8722548	20090616	23:24	0.80	1.00
8722548	20090616	23:30	0.84	1.02
8722548	20090616	23:36	0.88	1.03
8722548	20090616	23:42	0.92	1.05
8722548	20090616	23:48	0.96	1.07
8722548	20090616	23:54	1.01	1.10
8722548	20090617	00:00	1.05	1.12
8722548	20090617	00:06	1.10	1.15
8722548	20090617	00:12	1.15	1.18
8722548	20090617	00:18	1.20	1.22
8722548	20090617	00:24	1.24	1.25
8722548	20090617	00:30	1.29	1.28
8722548	20090617	00:36	1.34	1.32
8722548	20090617	00:42	1.39	1.36
8722548	20090617	00:48	1.44	1.40
8722548	20090617	00:54	1.48	1.44
8722548	20090617	01:00	1.53	1.48
8722548	20090617	01:06	1.58	1.52
8722548	20090617	01:12	1.62	1.57
8722548	20090617	01:18	1.67	1.61
8722548	20090617	01:24	1.71	1.65
8722548	20090617	01:30	1.75	1.70
8722548	20090617	01:36	1.80	1.75
8722548	20090617	01:42	1.84	1.79
8722548	20090617	01:48	1.88	1.84
8722548	20090617	01:54	1.92	1.87
8722548	20090617	02:00	1.96	1.92
8722548	20090617	02:06	1.99	1.96
8722548	20090617	02:12	2.03	2.00
8722548	20090617	02:18	2.07	2.04

8722548	20090617	02:24	2.10	2.08
8722548	20090617	02:30	2.13	2.12
8722548	20090617	02:36	2.17	2.16
8722548	20090617	02:42	2.20	2.20
8722548	20090617	02:48	2.23	2.23
8722548	20090617	02:54	2.26	2.27
8722548	20090617	03:00	2.28	2.30
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8722548	20090617	03:18	2.36	2.40
8722548	20090617	03:24	2.38	2.43
8722548	20090617	03:30	2.39	2.46
8722548	20090617	03:36	2.41	2.48
8722548	20090617	03:42	2.42	2.50
8722548	20090617	03:48	2.43	2.52
8722548	20090617	03:54	2.44	2.54
8722548	20090617	04:00	2.44	2.56
8722548	20090617	04:06	2.45	2.58
8722548	20090617	04:12	2.44	2.59
8722548	20090617	04:18	2.44	2.61
8722548	20090617	04:24	2.43	2.62
8722548	20090617	04:30	2.42	2.63
8722548	20090617	04:36	2.41	2.63
8722548	20090617	04:42	2.39	2.64
8722548	20090617	04:48	2.37	2.64
8722548	20090617	04:54	2.34	2.64
8722548	20090617	05:00	2.31	2.63
8722548	20090617	05:06	2.28	2.60
8722548	20090617	05:12	2.25	2.57
8722548	20090617	05:18	2.21	2.54
8722548	20090617	05:24	2.17	2.50
8722548	20090617	05:30	2.13	2.45
8722548	20090617	05:36	2.09	2.40
8722548	20090617	05:42	2.04	2.34
8722548	20090617	05:48	1.99	2.29
8722548	20090617	05:54	1.94	2.25
8722548	20090617	06:00	1.89	2.21
8722548	20090617	06:06	1.84	2.17
8722548	20090617	06:12	1.78	2.12
8722548	20090617	06:18	1.72	2.07
8722548	20090617	06:24	1.67	2.01
8722548	20090617	06:30	1.61	1.96
8722548	20090617	06:36	1.56	1.90
8722548	20090617	06:42	1.50	1.86
8722548	20090617	06:48	1.44	1.81
8722548	20090617	06:54	1.39	1.76
8722548	20090617	07:00	1.34	1.70
8722548	20090617	07:06	1.28	1.65
8722548	20090617	07:12	1.23	1.61
8722548	20090617	07:18	1.18	1.57
8722548	20090617	07:24	1.13	1.53
8722548	20090617	07:30	1.08	1.49
8722548	20090617	07:36	1.03	1.44
8722548	20090617	07:42	0.99	1.40
8722548	20090617	07:48	0.94	1.35
8722548	20090617	07:54	0.89	1.30
8722548	20090617	08:00	0.85	1.25
8722548	20090617	08:06	0.81	1.20

8722548	20090617	08:12	0.77	1.14
8722548	20090617	08:18	0.73	1.09
8722548	20090617	08:24	0.69	1.03
8722548	20090617	08:30	0.65	0.99
8722548	20090617	08:36	0.61	0.95
8722548	20090617	08:42	0.58	0.91
8722548	20090617	08:48	0.54	0.87
8722548	20090617	08:54	0.50	0.83
8722548	20090617	09:00	0.47	0.77
8722548	20090617	09:06	0.43	0.73
8722548	20090617	09:12	0.40	0.69
8722548	20090617	09:18	0.37	0.65
8722548	20090617	09:24	0.33	0.62
8722548	20090617	09:30	0.30	0.60
8722548	20090617	09:36	0.27	0.57
8722548	20090617	09:42	0.25	0.53
8722548	20090617	09:48	0.22	0.51
8722548	20090617	09:54	0.20	0.49
8722548	20090617	10:00	0.18	0.47
8722548	20090617	10:06	0.16	0.46
8722548	20090617	10:12	0.14	0.46
8722548	20090617	10:18	0.13	0.47
8722548	20090617	10:24	0.12	0.47
8722548	20090617	10:30	0.11	0.48
8722548	20090617	10:36	0.11	0.48
8722548	20090617	10:42	0.11	0.49
8722548	20090617	10:48	0.12	0.51
8722548	20090617	10:54	0.12	0.52
8722548	20090617	11:00	0.14	0.54
8722548	20090617	11:06	0.15	0.57
8722548	20090617	11:12	0.17	0.59
8722548	20090617	11:18	0.19	0.61
8722548	20090617	11:24	0.22	0.63
8722548	20090617	11:30	0.25	0.65
8722548	20090617	11:36	0.29	0.68
8722548	20090617	11:42	0.33	0.70
8722548	20090617	11:48	0.37	0.73
8722548	20090617	11:54	0.41	0.76
8722548	20090617	12:00	0.46	0.79
8722548	20090617	12:06	0.51	0.82
8722548	20090617	12:12	0.56	0.85
8722548	20090617	12:18	0.61	0.89
8722548	20090617	12:24	0.67	0.92
8722548	20090617	12:30	0.73	0.96
8722548	20090617	12:36	0.78	1.00
8722548	20090617	12:42	0.84	1.03
8722548	20090617	12:48	0.90	1.07
8722548	20090617	12:54	0.96	1.12
8722548	20090617	13:00	1.02	1.16
8722548	20090617	13:06	1.08	1.20
8722548	20090617	13:12	1.14	1.24
8722548	20090617	13:18	1.20	1.29
8722548	20090617	13:24	1.26	1.34
8722548	20090617	13:30	1.31	1.39
8722548	20090617	13:36	1.37	1.44
8722548	20090617	13:42	1.43	1.48
8722548	20090617	13:48	1.49	1.53
8722548	20090617	13:54	1.55	1.58



8722548	20090617	14:00	1.60	1.63
8722548	20090617	14:06	1.66	1.68
8722548	20090617	14:12	1.71	1.74
8722548	20090617	14:18	1.77	1.79
8722548	20090617	14:24	1.82	1.84
8722548	20090617	14:30	1.87	1.89
8722548	20090617	14:36	1.93	1.95
8722548	20090617	14:42	1.98	2.00
8722548	20090617	14:48	2.03	2.06
8722548	20090617	14:54	2.08	2.11
8722548	20090617	15:00	2.12	2.16
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8722548	20090617	15:12	2.22	2.27
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8722548	20090617	15:42	2.43	2.51
8722548	20090617	15:48	2.46	2.56
8722548	20090617	15:54	2.50	2.60
8722548	20090617	16:00	2.53	2.64
8722548	20090617	16:06	2.56	2.68
8722548	20090617	16:12	2.58	2.72
8722548	20090617	16:18	2.61	2.75
8722548	20090617	16:24	2.63	2.79
8722548	20090617	16:30	2.65	2.82
8722548	20090617	16:36	2.66	2.85
8722548	20090617	16:42	2.67	2.87
8722548	20090617	16:48	2.68	2.90
8722548	20090617	16:54	2.68	2.92
8722548	20090617	17:00	2.68	2.93
8722548	20090617	17:06	2.68	2.95
8722548	20090617	17:12	2.67	2.96
8722548	20090617	17:18	2.66	2.97
8722548	20090617	17:24	2.65	2.98
8722548	20090617	17:30	2.63	2.98
8722548	20090617	17:36	2.61	2.98
8722548	20090617	17:42	2.59	2.98
8722548	20090617	17:48	2.56	2.96
8722548	20090617	17:54	2.53	2.93
8722548	20090617	18:00	2.49	2.90
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8722548	20090617	18:18	2.38	2.79
8722548	20090617	18:24	2.34	2.75
8722548	20090617	18:30	2.30	2.70
8722548	20090617	18:36	2.26	2.65
8722548	20090617	18:42	2.21	2.60
8722548	20090617	18:48	2.16	2.56
8722548	20090617	18:54	2.11	2.51
8722548	20090617	19:00	2.07	2.47
8722548	20090617	19:06	2.02	2.43
8722548	20090617	19:12	1.97	2.39
8722548	20090617	19:18	1.92	2.34
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8722548	20090617	19:36	1.78	2.18
8722548	20090617	19:42	1.74	2.13

8722548	20090617	19:48	1.69	2.07
8722548	20090617	19:54	1.65	2.02
8722548	20090617	20:00	1.60	1.97
8722548	20090617	20:06	1.56	1.92
8722548	20090617	20:12	1.52	1.87
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8722548	20090617	20:24	1.44	1.79
8722548	20090617	20:30	1.40	1.75
8722548	20090617	20:36	1.36	1.71
8722548	20090617	20:42	1.32	1.66
8722548	20090617	20:48	1.28	1.62
8722548	20090617	20:54	1.24	1.57
8722548	20090617	21:00	1.20	1.52
8722548	20090617	21:06	1.17	1.49
8722548	20090617	21:12	1.13	1.44
8722548	20090617	21:18	1.09	1.41
8722548	20090617	21:24	1.05	1.37
8722548	20090617	21:30	1.02	1.32
8722548	20090617	21:36	0.98	1.28
8722548	20090617	21:42	0.94	1.25
8722548	20090617	21:48	0.91	1.22
8722548	20090617	21:54	0.87	1.19
8722548	20090617	22:00	0.84	1.15
8722548	20090617	22:06	0.81	1.11
8722548	20090617	22:12	0.78	1.08
8722548	20090617	22:18	0.75	1.05
8722548	20090617	22:24	0.72	1.03
8722548	20090617	22:30	0.70	1.01
8722548	20090617	22:36	0.67	0.99
8722548	20090617	22:42	0.65	0.97
8722548	20090617	22:48	0.64	0.96
8722548	20090617	22:54	0.62	0.95
8722548	20090617	23:00	0.61	0.94
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8722548	20090617	23:12	0.60	0.95
8722548	20090617	23:18	0.60	0.95
8722548	20090617	23:24	0.60	0.95
8722548	20090617	23:30	0.61	0.96
8722548	20090617	23:36	0.62	0.96
8722548	20090617	23:42	0.63	0.97
8722548	20090617	23:48	0.65	0.98
8722548	20090617	23:54	0.67	0.99
8722548	20090618	00:00	0.70	1.01
8722548	20090618	00:06	0.73	1.03
8722548	20090618	00:12	0.76	1.04
8722548	20090618	00:18	0.79	1.07
8722548	20090618	00:24	0.82	1.09
8722548	20090618	00:30	0.86	1.12
8722548	20090618	00:36	0.90	1.15
8722548	20090618	00:42	0.94	1.18
8722548	20090618	00:48	0.99	1.21
8722548	20090618	00:54	1.03	1.24
8722548	20090618	01:00	1.07	1.28
8722548	20090618	01:06	1.12	1.32
8722548	20090618	01:12	1.17	1.35
8722548	20090618	01:18	1.21	1.39
8722548	20090618	01:24	1.26	1.43
8722548	20090618	01:30	1.30	1.47

8722548	20090618	01:36	1.35	1.50
8722548	20090618	01:42	1.40	1.54
8722548	20090618	01:48	1.44	1.58
8722548	20090618	01:54	1.49	1.62
8722548	20090618	02:00	1.53	1.66
8722548	20090618	02:06	1.58	1.70
8722548	20090618	02:12	1.62	1.74
8722548	20090618	02:18	1.66	1.78
8722548	20090618	02:24	1.71	1.82
8722548	20090618	02:30	1.75	1.86
8722548	20090618	02:36	1.79	1.89
8722548	20090618	02:42	1.83	1.93
8722548	20090618	02:48	1.87	1.97
8722548	20090618	02:54	1.91	2.02
8722548	20090618	03:00	1.95	2.06
8722548	20090618	03:06	1.99	2.09
8722548	20090618	03:12	2.02	2.13
8722548	20090618	03:18	2.06	2.17
8722548	20090618	03:24	2.09	2.21
8722548	20090618	03:30	2.13	2.25
8722548	20090618	03:36	2.16	2.28
8722548	20090618	03:42	2.19	2.32
8722548	20090618	03:48	2.22	2.35
8722548	20090618	03:54	2.25	2.38
8722548	20090618	04:00	2.28	2.42
8722548	20090618	04:06	2.30	2.45
8722548	20090618	04:12	2.32	2.48
8722548	20090618	04:18	2.34	2.50
8722548	20090618	04:24	2.36	2.53
8722548	20090618	04:30	2.37	2.56
8722548	20090618	04:36	2.39	2.58
8722548	20090618	04:42	2.40	2.61
8722548	20090618	04:48	2.40	2.63
8722548	20090618	04:54	2.41	2.65
8722548	20090618	05:00	2.41	2.66
8722548	20090618	05:06	2.41	2.68
8722548	20090618	05:12	2.40	2.69
8722548	20090618	05:18	2.39	2.69
8722548	20090618	05:24	2.38	2.70
8722548	20090618	05:30	2.36	2.70
8722548	20090618	05:36	2.34	2.70
8722548	20090618	05:42	2.32	2.68
8722548	20090618	05:48	2.29	2.64
8722548	20090618	05:54	2.26	2.61
8722548	20090618	06:00	2.23	2.56
8722548	20090618	06:06	2.19	2.51
8722548	20090618	06:12	2.16	2.47
8722548	20090618	06:18	2.11	2.43
8722548	20090618	06:24	2.07	2.38
8722548	20090618	06:30	2.02	2.34
8722548	20090618	06:36	1.97	2.29
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8722548	20090618	06:48	1.87	2.19
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8722548	20090618	07:00	1.76	2.09
8722548	20090618	07:06	1.71	2.05
8722548	20090618	07:12	1.65	2.00
8722548	20090618	07:18	1.59	1.95

8722548	20090618	07:24	1.54	1.91
8722548	20090618	07:30	1.48	1.86
8722548	20090618	07:36	1.42	1.82
8722548	20090618	07:42	1.37	1.77
8722548	20090618	07:48	1.31	1.72
8722548	20090618	07:54	1.25	1.67
8722548	20090618	08:00	1.20	1.61
8722548	20090618	08:06	1.15	1.56
8722548	20090618	08:12	1.09	1.51
8722548	20090618	08:18	1.04	1.46
8722548	20090618	08:24	0.99	1.41
8722548	20090618	08:30	0.94	1.35
8722548	20090618	08:36	0.90	1.30
8722548	20090618	08:42	0.85	1.26
8722548	20090618	08:48	0.80	1.19
8722548	20090618	08:54	0.76	1.15
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8722548	20090619	02:00	1.07	1.29
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8722548	20090619	02:18	1.21	1.40
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8722548	20090619	02:30	1.30	1.47
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8722548	20090619	05:36	2.40	2.69
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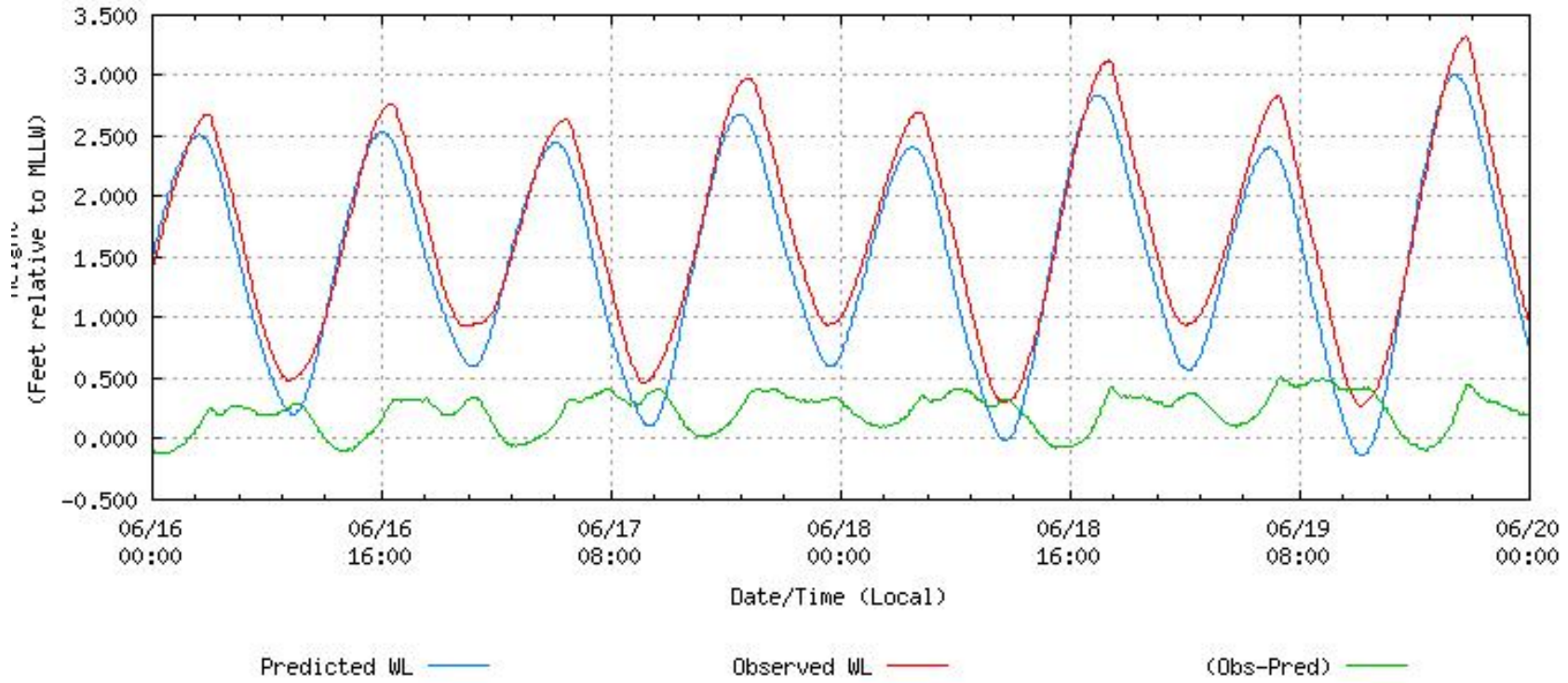
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8722548	20090619	08:42	1.26	1.74
8722548	20090619	08:48	1.20	1.69
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8722548	20090619	09:00	1.09	1.58
8722548	20090619	09:06	1.03	1.52
8722548	20090619	09:12	0.98	1.47
8722548	20090619	09:18	0.93	1.42
8722548	20090619	09:24	0.87	1.37
8722548	20090619	09:30	0.82	1.32
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8722548	20090619	10:00	0.58	1.06
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8722548	20090619	23:00	1.20	1.43
8722548	20090619	23:06	1.15	1.38
8722548	20090619	23:12	1.10	1.32
8722548	20090619	23:18	1.05	1.26
8722548	20090619	23:24	1.00	1.21
8722548	20090619	23:30	0.95	1.17
8722548	20090619	23:36	0.91	1.12
8722548	20090619	23:42	0.86	1.07
8722548	20090619	23:48	0.82	1.03
8722548	20090619	23:54	0.78	0.99

NOAA/NOS/CO-OPS  
Preliminary Water Level (A1) vs. Predicted Plot  
8722548 PGA BOULEVARD BRIDGE, PALM BEACH, F  
from 2009/06/16 - 2009/06/19



# Appendix C



# CERTIFIED TEST REPORT

CUSTOMER: ALL WEBBS ENTERPRISES  
 MODEL NO: M0310-GA  
 METER SERIAL NO: 07-08904

## CONFIGURATION

METER INSIDE DIAMETER: 10.02  
 METER OUTSIDE DIAMETER: 10.75  
 TEST DATE: 6/12/2009  
 TEST FACILITY: Volumetric  
 IDEAL TEST CONSTANT: 2246

## CALIBRATION DATA

	Tested TC	GPM	Accuracy
1	2263	1835	100.8

*Handwritten signature and date: 6/16/09*

CERTIFIED BY: Paul Hobbs DATE: 6/16/2009

This calibration was performed on a gravimetric or volumetric test facility, traceable to the National Institute of Standards and Technology, USA. The estimated flow measurement uncertainty of the calibration facilities are:  
 Gravimetric +/- 0.15% Volumetric +/- 0.5%



### McCROMETER

3255 WEST STETSON AVENUE  
 HEMET, CA 92545 USA

PHONE (951) 652-6811 / FAX (951) 652-3078

WEB SITE: <http://www.mccrometer.com> E-MAIL: [info@mccrometer.com](mailto:info@mccrometer.com)



07-08904

Certificate No.:

9097

Page 1 of 2

Date of Calibration:

10/20/2008

**Pressure and Temperature  
Measurement**

WIKA Instrument Corporation  
1000 Wiegand Boulevard  
Lawrenceville, Georgia 30043

Customer

: Accutech Instrumentation

49 Century Street  
JACKSONVILLE, FL 32211

Tel. 770-513-8200

Fax 770-338-5118

www.wika.com

info@wika.com

Order No.

: 894387

**Specification of the device under test**

Object : Dial Gauge  
Manufacturer : WIKA  
Model : 312.20 6"  
Serial No. : 220WOK8  
Tag : -  
Pressure range : 0 ... 300 psi  
Accuracy : 0.25 % (of span )  
Scale division / Resolution : 1 psi  
Method of measurement : Gauge pressure  
Output signal : -

**Calibration parameters**

Place of calibration : Cal-Lab (Lawrenceville)  
Test temperature (in °F) : 72.5  
Humidity (in %) : 44.0  
Amb. pressure (in inHg) : 29.1  
Pressure medium : dry air  
Angle position : vertical  
local gravity (in m/s<sup>2</sup>) : 9.79541

Comments :



Quality Assurance

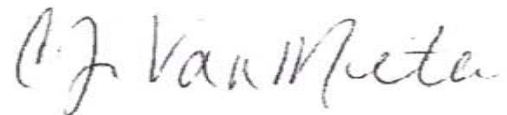
: K. Stripling

**Working Standard (WS)**

Name : Electr. Gauge  
Pressure range : 0 ... 40 bar  
Calibration-number : 31190 11-19-2007  
Accuracy : 0.02 % (of span )  
Identity : SS 108  
Recal Interval : 1 year

**Used auxiliary instruments**

Multimeter : -  
Resistor : -



Calibration technician : C. Vanmeter

WIKA Instrument Corporation  
1000 Wiegand Boulevard  
Lawrenceville, Georgia 30043

Tel. 770-513-8200  
Fax 770-338-5118  
www.wika.com  
info@wika.com

### Calibration results

Reading DUT psi	Reading WS psi		Hysteresis psi	Deviation		Pass/Fail
				%	%	
	M 1	M 2		M 1	M 2	
0.0	0.00	0.00	0.00	0.00	0.00	PASS
50.0	50.01	49.51	0.50	0.00	0.16	PASS
100.0	100.46	99.41	1.05	-0.15	0.20	PASS
150.0	150.71	150.07	0.64	-0.24	-0.02	PASS
200.0	200.61	200.54	0.07	-0.20	-0.18	PASS
250.0	250.26	250.41	0.15	-0.09	-0.14	PASS
300.0	300.25	300.08	0.17	-0.08	-0.03	PASS



The DUT is labeled with a calibration sticker, which shows the date of calibration and the date for recalibration. The recommended cycle is one year from current calibration.

#### Declaration of conformity:

The device under test meets the specifications as required by the manufacturer.

WIKA Instrument Corporation certifies that the above named instrument has been calibrated by comparison to laboratory standards traceable to the National Institute of Standards and Technology (NIST)

**This certificate shall not be reproduced, except in full, without the written approval of Wika Instrument Corporation Calibration Laboratory**

Calibration is carried out according to the following procedures:

ISO 10012-1 Edition 15-0101992  
ANSI / NCSL Z 540-1-1994  
WIKA Procedure SOP 0.2

OLI MW 12/21/08

**Weedon Engineering Co., Inc.**

**5105 Buffalo Ave.**

**Jacksonville, FL 32206**

*Phone: 904-355-8411*

Date Rcvd: 10-08-08

Test Date: 10-08-08

Recal Date: 10-08-09

Last Cal Date: N/A

Cycle (Mos): 12mo

**Instrument Calibration  
Certification Sheet**

Customer: Accutech Instrumentation, Inc.

Mfg: Wika

Type Inst.: Pressure Gauge

Model/Part No.:

Accuracy + or -: 0.25%

Scale: 4.5" Range: 0-200#

Test procedure : WE-86 Accessories:

Ser.No.: W355-08

Dead Weight Tester

Manufacturer: Ashcroft, Inc.

Model 1305

Serial #DWT-1151

Calibration cycle every 12 months next calibration due 7-31-2009

Repair Est.: Rplmt cost: Approved by: Date: 10-09-08

Receipt Inspection Mechanical: Damage:

Operational Check In Tol.: **XX** Out of Tol.: Failure:

Comment:

Repair Yes-repair: No: **XX**

Comments:

AdjustmentsYes-adj.: No\*: **XX** Comments:

Post Cal: In Toler: **XX** Out of toler: Limited.: Rejected:

The above data is certified as true and correct and complies with all applicable test procedures IAW ANSI Z540-1. All Standards traceable to N.I.S.T.

Weedon Engineering Technician: Weedon

Tech.: JWW

Certificate prepared by: Marla Weedon



# Appendix D

## ANALYTICAL REPORT

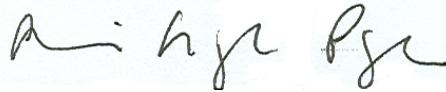
Job Number: 680-42932-1

Job Description: Okeechobee Landfill Inj. Well Permit

For:

Waste Management, Inc.  
Okeechobee Landfill  
10800 NE 128th Avenue  
Okeechobee, FL 34972

Attention: Mr. Tony Bishop



Approved for release.  
Abbie Page  
Project Manager I  
12/30/2008 3:16 PM

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Abbie Page  
Project Manager I  
abbie.page@testamericainc.com  
12/30/2008  
Revision: 1

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

**TestAmerica Laboratories, Inc.**

TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404  
Tel (912) 354-7858 Fax (912) 352-0165 [www.testamericainc.com](http://www.testamericainc.com)



**Job Narrative**  
**680-J42932-1**

**Comments**

No additional comments.

**Receipt**

Method(s) 524.2: The following sample(s) submitted for volatiles analysis was received with insufficient preservation (pH >2): 680-42932-1. Analysis was cancelled and client will re-submit new volume.

Method(s) 524.2: The following sample(s) submitted for volatiles analysis was received with insufficient preservation (pH >2): 680-42932-4.

All other samples were received in good condition within temperature requirements.

**GC/MS VOA**

Method(s) 524.2: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for four (4) analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 125333 had two (2) analytes outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

No other analytical or quality issues were noted.

**GC/MS Semi VOA**

Method(s) 525.2: Sample 680-42932-1 (LTM 04) has low internal standards and high surrogate recovery. Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

**HPLC**

Method(s) 531.1: The following sample(s) was diluted due to the nature of the sample matrix: 680-42932-1. Elevated reporting limits (RLs) are provided.

Method(s) 547: The following sample(s) was diluted due to the nature of the sample matrix: 680-42932-1. Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

**GC Semi VOA**

Method(s) 515.1: Surrogate recovery for the following samples was outside control limits: 680-19875-4. Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed. The unspiked sample surrogate recovery was within control limits.

No other analytical or quality issues were noted.

**Metals**

Method(s) 200.8: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample(s): 680-42932-1. 680-42932-1

No other analytical or quality issues were noted.

**General Chemistry**

Method(s) 425.1: The following sample(s) was diluted due to appearance or color: 680-42932-1. Elevated reporting limits (RL) are provided.

Method(s) 353.2: The following sample(s) was diluted due to appearance or color: 680-42932-1. Elevated reporting limits (RL) are provided.

No other analytical or quality issues were noted.

**Biology**

Method(s) SM 9222B: Coliforms were not detected; however, the presence of confluent growth may have suppressed coliform growth in the following samples: 680-42932-4. Sample results may be biased low.

Method(s) SM 9222B: Coliforms were detected; however, the presence of confluent growth may have suppressed coliform growth in the

following sample: 680-42932-5. Sample result may be biased low.

No other analytical or quality issues were noted.

## METHOD SUMMARY

Client: Waste Management, Inc.

Job Number: 680-42932-1

Description	Lab Location	Method	Preparation Method
<b>Matrix</b> <b>Water</b>			
Volatile Organic Compounds (GC/MS)	TAL SAV	EPA-DW 524.2	
Semivolatile Organic Compounds (GC/MS)	TAL SAV	EPA 525.2	
Extraction of Semivolatile Compounds	TAL SAV		EPA 525.2
Endothall (GC/MS)	TAL SAV	EPA-DW 548.1	
Extraction of Endothall	TAL SAV		EPA-DW 548.1
Carbamate Pesticides (HPLC)	TAL SAV	EPA 531.1	
Glyphosate (DAI HPLC)	TAL SAV	EPA 547	
Diquat and Paraquat (HPLC)	TAL SAV	EPA 549.2	
Extraction of Diquat and Paraquat	TAL SAV		EPA 549.2
EDB, DBCP and 1,2,3-TCP (GC)	TAL SAV	EPA-DW 504.1	
Microextraction	TAL SAV		EPA-DW 504.1
Chlorinated Pesticides & PCBs (GC)	TAL SAV	EPA 508	
Liquid-Liquid Extraction (Separatory Funnel)	TAL SAV		EPA 508
Herbicides (GC)	TAL SAV	EPA-01 515.1	
Extraction of Chlorinated Acids	TAL SAV		EPA-DW 515.1
Metals (ICP)	TAL SAV	40CFR136A 200.7 Rev 4.4	
Preparation, Total Metals	TAL SAV		EPA 200.7
Metals (ICP/MS)	TAL SAV	EPA 200.8	
Preparation, Total Metals	TAL SAV		EPA 200.8
Odor, Threshold	TAL TAM	MCAWW 140.1	
pH (Electrometric)	TAL SAV	MCAWW 150.1	
Anions, Ion Chromatography	TAL SAV	MCAWW 300.0	
Cyanide, Total	TAL SAV	MCAWW 335.4	
Distillation, Cyanide	TAL SAV		Distill/CN
Nitrogen, Nitrate-Nitrite	TAL SAV	MCAWW 353.2	
Nitrogen, Nitrite	TAL SAV	MCAWW 353.2	
Color, Colorimetric	TAL SAV	SM SM 2120B	
Odor	TAL SAV	SM SM 2150B	
Conductivity, Specific Conductance	TAL SAV	SM SM 2510B	
Solids, Total Dissolved (TDS)	TAL SAV	SM SM 2540C	
Methylene Blue Active Substances (MBAS)	TAL SAV	SM SM 5540C	
Coliforms, Total (Membrane Filter)	TAL SAV	SM SM 9222B	

**Lab References:**

TAL SAV = TestAmerica Savannah

TAL TAM = TestAmerica Tampa

## METHOD SUMMARY

Client: Waste Management, Inc.

Job Number: 680-42932-1

<b>Description</b>	<b>Lab Location</b>	<b>Method</b>	<b>Preparation Method</b>
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### Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

EPA-01 = "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992.

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

## METHOD / ANALYST SUMMARY

Client: Waste Management, Inc.

Job Number: 680-42932-1

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
EPA-DW 524.2	Jakubsen, Melanie	MLJ
EPA 525.2	Davis, Nancy	ND
EPA-DW 548.1	Davis, Nancy	ND
EPA 531.1	Brazell, Connie	CB
EPA 547	Dalton, Gloria	GJ
EPA 549.2	Dalton, Gloria	GJ
EPA-DW 504.1	Kellar, Joshua	JK
EPA 508	Kellar, Joshua	JK
EPA-01 515.1	Kellar, Joshua	JK
40CFR136A 200.7 Rev 4.4	Bland, Brian	BCB
EPA 200.8	Boyuk, Brian	BB
MCAWW 140.1	Mostafavifar, Efe	EM
MCAWW 150.1	Lanier, Jerry	JL
MCAWW 300.0	Brazell, Connie	CB
MCAWW 335.4	McDonald, Debbie	DM
MCAWW 353.2	Thomas, Anitra D	ADT
SM SM 2120B	Nelson, Christopher	CN
SM SM 2150B	Nelson, Christopher	CN
SM SM 2510B	Lanier, Jerry	JL
SM SM 2540C	Williams, Dyanne	DW
SM SM 5540C	Brantley, Willie	WB
SM SM 9222B	Hornsby, Terry	TH

## SAMPLE SUMMARY

Client: Waste Management, Inc.

Job Number: 680-42932-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
680-42932-1	LTM 04	Water	12/08/2008 0900	12/09/2008 0922
680-42932-2	Pond 1D	Water	12/08/2008 1100	12/09/2008 0922
680-42932-3	Trip Blank	Water	12/08/2008 0000	12/09/2008 0922
680-42932-4	LTM 04	Water	12/17/2008 0820	12/17/2008 0909
680-42932-5	Pond 1D	Water	12/17/2008 0900	12/17/2008 0909
680-42932-6	Trip Blank	Water	12/17/2008 0000	12/17/2008 0909
680-42932-7	LTM 04	Water	12/19/2008 0000	12/20/2008 2359



## Analytical Data

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID:** Pond 1D

Lab Sample ID: 680-42932-2

Date Sampled: 12/08/2008 1100

Client Matrix: Water

Date Received: 12/09/2008 0922

### 524.2 Volatile Organic Compounds (GC/MS)

Method:	524.2	Analysis Batch: 680-125333	Instrument ID: GC/MS Volatiles - U
Preparation:	N/A		Lab File ID: u12139.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	12/12/2008 2059		Final Weight/Volume: 5 mL
Date Prepared:	N/A		

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	<0.25	U	0.25	0.50
Xylenes, Total	<0.44	U	0.44	0.50
1,2,4-Trichlorobenzene	<0.38	U	0.38	0.50
Trichloroethene	<0.20	U	0.20	0.50
Trihalomethanes, Total	<0.16	U	0.16	0.50
Methylene Chloride	<0.21	U	0.21	0.50
1,2-Dichlorobenzene	<0.23	U	0.23	0.50
1,4-Dichlorobenzene	<0.17	U	0.17	0.50
Vinyl chloride	<0.29	U	0.29	0.50
1,1-Dichloroethene	<0.24	U	0.24	0.50
trans-1,2-Dichloroethene	<0.22	U	0.22	0.50
1,2-Dichloroethane	<0.19	U	0.19	0.50
1,1,1-Trichloroethane	<0.16	U	0.16	0.50
Carbon tetrachloride	<0.38	U	0.38	0.50
1,2-Dichloropropane	<0.22	U	0.22	0.50
1,1,2-Trichloroethane	<0.25	U	0.25	0.50
Tetrachloroethene	<0.22	U	0.22	0.50
Chlorobenzene	<0.19	U	0.19	0.50
Benzene	<0.19	U	0.19	0.50
Toluene	<0.21	U	0.21	0.50
Chloroform	<0.20	U	0.20	0.50
Ethylbenzene	<0.18	U	0.18	0.50
Dichlorobromomethane	<0.19	U J	0.19	0.50
Styrene	<0.30	U	0.30	0.50
Bromoform	<0.17	U	0.17	0.50
Chlorodibromomethane	<0.16	U	0.16	0.50
Chloroethane	<0.36	U	0.36	1.0
Surrogate	%Rec	Acceptance Limits		
1,2-Dichlorobenzene-d4	84	70 - 130		
4-Bromofluorobenzene	89	70 - 130		

## Analytical Data

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID:** Trip Blank

Lab Sample ID: 680-42932-3

Date Sampled: 12/08/2008 0000

Client Matrix: Water

Date Received: 12/09/2008 0922

### 524.2 Volatile Organic Compounds (GC/MS)

Method:	524.2	Analysis Batch: 680-125333	Instrument ID: GC/MS Volatiles - U
Preparation:	N/A		Lab File ID: u12138.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	12/12/2008 2036		Final Weight/Volume: 5 mL
Date Prepared:	N/A		

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	<0.25	U	0.25	0.50
Xylenes, Total	<0.44	U	0.44	0.50
1,2,4-Trichlorobenzene	<0.38	U	0.38	0.50
Trichloroethene	<0.20	U	0.20	0.50
Trihalomethanes, Total	<0.16	U	0.16	0.50
Methylene Chloride	<0.21	U	0.21	0.50
1,2-Dichlorobenzene	<0.23	U	0.23	0.50
1,4-Dichlorobenzene	<0.17	U	0.17	0.50
Vinyl chloride	<0.29	U	0.29	0.50
1,1-Dichloroethene	<0.24	U	0.24	0.50
trans-1,2-Dichloroethene	<0.22	U	0.22	0.50
1,2-Dichloroethane	<0.19	U	0.19	0.50
1,1,1-Trichloroethane	<0.16	U	0.16	0.50
Carbon tetrachloride	<0.38	U	0.38	0.50
1,2-Dichloropropane	<0.22	U	0.22	0.50
1,1,2-Trichloroethane	<0.25	U	0.25	0.50
Tetrachloroethene	<0.22	U	0.22	0.50
Chlorobenzene	<0.19	U	0.19	0.50
Benzene	<0.19	U	0.19	0.50
Toluene	<0.21	U	0.21	0.50
Chloroform	<0.20	U	0.20	0.50
Ethylbenzene	<0.18	U	0.18	0.50
Dichlorobromomethane	<0.19	U J	0.19	0.50
Styrene	<0.30	U	0.30	0.50
Bromoform	<0.17	U	0.17	0.50
Chlorodibromomethane	<0.16	U	0.16	0.50
Chloroethane	<0.36	U	0.36	1.0
Surrogate	%Rec	Acceptance Limits		
1,2-Dichlorobenzene-d4	86	70 - 130		
4-Bromofluorobenzene	86	70 - 130		

## Analytical Data

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID:** LTM 04

Lab Sample ID: 680-42932-4

Date Sampled: 12/17/2008 0820

Client Matrix: Water

Date Received: 12/17/2008 0909

### 524.2 Volatile Organic Compounds (GC/MS)

Method:	524.2	Analysis Batch: 680-125966	Instrument ID: GC/MS Volatiles - U
Preparation:	N/A		Lab File ID: u12319.d
Dilution:	50		Initial Weight/Volume: 5 mL
Date Analyzed:	12/19/2008 1322		Final Weight/Volume: 5 mL
Date Prepared:	N/A		

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	<12	U Q	12	25
Xylenes, Total	<22	U Q	22	25
1,2,4-Trichlorobenzene	<19	U Q	19	25
Trichloroethene	<10	U Q	10	25
Trihalomethanes, Total	<8.0	U Q	8.0	25
Methylene Chloride	<10	U Q	10	25
1,2-Dichlorobenzene	<12	U Q	12	25
1,4-Dichlorobenzene	<8.5	U Q	8.5	25
Vinyl chloride	<14	U Q	14	25
1,1-Dichloroethene	<12	U Q	12	25
trans-1,2-Dichloroethene	<11	U Q	11	25
1,2-Dichloroethane	<9.5	U Q	9.5	25
1,1,1-Trichloroethane	<8.0	U Q	8.0	25
Carbon tetrachloride	<19	U Q	19	25
1,2-Dichloropropane	<11	U Q	11	25
1,1,2-Trichloroethane	<12	U Q	12	25
Tetrachloroethene	<11	U Q	11	25
Chlorobenzene	<9.5	U Q	9.5	25
Benzene	<9.5	U Q	9.5	25
Toluene	30	Q	10	25
Chloroform	<10	U Q	10	25
Ethylbenzene	<9.0	U Q	9.0	25
Dichlorobromomethane	<9.5	U Q	9.5	25
Styrene	<15	U Q	15	25
Bromoform	<8.5	U Q	8.5	25
Chlorodibromomethane	<8.0	U Q	8.0	25
Chloroethane	<18	U Q	18	50
Surrogate	%Rec	Acceptance Limits		
1,2-Dichlorobenzene-d4	87	70 - 130		
4-Bromofluorobenzene	92	70 - 130		

## Analytical Data

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID:** Trip Blank

Lab Sample ID: 680-42932-6

Date Sampled: 12/17/2008 0000

Client Matrix: Water

Date Received: 12/17/2008 0909

### 524.2 Volatile Organic Compounds (GC/MS)

Method:	524.2	Analysis Batch: 680-125955	Instrument ID: GC/MS Volatiles - U
Preparation:	N/A		Lab File ID: u12191.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	12/18/2008 2106		Final Weight/Volume: 5 mL
Date Prepared:	N/A		

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	<0.25	U	0.25	0.50
Xylenes, Total	<0.44	U	0.44	0.50
1,2,4-Trichlorobenzene	<0.38	U	0.38	0.50
Trichloroethene	<0.20	U	0.20	0.50
Trihalomethanes, Total	<0.16	U	0.16	0.50
Methylene Chloride	<0.21	U	0.21	0.50
1,2-Dichlorobenzene	<0.23	U	0.23	0.50
1,4-Dichlorobenzene	<0.17	U	0.17	0.50
Vinyl chloride	<0.29	U	0.29	0.50
1,1-Dichloroethene	<0.24	U	0.24	0.50
trans-1,2-Dichloroethene	<0.22	U	0.22	0.50
1,2-Dichloroethane	<0.19	U	0.19	0.50
1,1,1-Trichloroethane	<0.16	U	0.16	0.50
Carbon tetrachloride	<0.38	U	0.38	0.50
1,2-Dichloropropane	<0.22	U	0.22	0.50
1,1,2-Trichloroethane	<0.25	U	0.25	0.50
Tetrachloroethene	<0.22	U	0.22	0.50
Chlorobenzene	<0.19	U	0.19	0.50
Benzene	<0.19	U	0.19	0.50
Toluene	<0.21	U	0.21	0.50
Chloroform	<0.20	U	0.20	0.50
Ethylbenzene	<0.18	U	0.18	0.50
Dichlorobromomethane	<0.19	U J	0.19	0.50
Styrene	<0.30	U	0.30	0.50
Bromoform	<0.17	U	0.17	0.50
Chlorodibromomethane	<0.16	U	0.16	0.50
Chloroethane	<0.36	U	0.36	1.0
Surrogate	%Rec	Acceptance Limits		
1,2-Dichlorobenzene-d4	88	70 - 130		
4-Bromofluorobenzene	92	70 - 130		

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: LTM 04**

Lab Sample ID: 680-42932-1  
 Client Matrix: Water

Date Sampled: 12/08/2008 0900  
 Date Received: 12/09/2008 0922

**525.2 Semivolatile Organic Compounds (GC/MS)**

Method:	525.2	Analysis Batch: 680-125513	Instrument ID:	GC/MS SemiVoa - R
Preparation:	525.2	Prep Batch: 680-125154	Lab File ID:	R609.D
Dilution:	1.0		Initial Weight/Volume:	10 mL
Date Analyzed:	12/15/2008 1752		Final Weight/Volume:	1 mL
Date Prepared:	12/12/2008 0814		Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Alachlor	<6.0	U	6.0	20
Atrazine	<4.3	U	4.3	20
Benzo[a]pyrene	<2.5	U	2.5	20
Bis(2-ethylhexyl) phthalate	<50	U	50	200
Di(2-ethylhexyl)adipate	<50	U	50	150
Heptachlor	<3.8	U	3.8	20
Heptachlor epoxide	<9.1	U	9.1	20
Endrin	<12	U	12	50
Hexachlorobenzene	<3.2	U	3.2	20
Hexachlorocyclopentadiene	<5.6	U	5.6	200
gamma-BHC (Lindane)	<6.9	U	6.9	20
Methoxychlor	<10	U	10	50
Simazine	<7.6	U	7.6	50
Surrogate	%Rec		Acceptance Limits	
Triphenylphosphate	145	J	70 - 130	

## Analytical Data

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID:** Pond 1D

Lab Sample ID: 680-42932-2

Date Sampled: 12/08/2008 1100

Client Matrix: Water

Date Received: 12/09/2008 0922

### 525.2 Semivolatile Organic Compounds (GC/MS)

Method:	525.2	Analysis Batch: 680-125285	Instrument ID: GC/MS SemiVoa - R
Preparation:	525.2	Prep Batch: 680-125154	Lab File ID: R599.D
Dilution:	1.0		Initial Weight/Volume: 1030 mL
Date Analyzed:	12/14/2008 0121		Final Weight/Volume: 1 mL
Date Prepared:	12/12/2008 0814		Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Alachlor	<0.058	U	0.058	0.19
Atrazine	<0.042	U	0.042	0.19
Benzo[a]pyrene	<0.024	U	0.024	0.19
Bis(2-ethylhexyl) phthalate	<0.49	U	0.49	1.9
Di(2-ethylhexyl)adipate	<0.49	U	0.49	1.5
Heptachlor	<0.037	U	0.037	0.19
Heptachlor epoxide	<0.088	U	0.088	0.19
Endrin	<0.12	U	0.12	0.49
Hexachlorobenzene	<0.031	U	0.031	0.19
Hexachlorocyclopentadiene	<0.054	U	0.054	1.9
gamma-BHC (Lindane)	<0.067	U	0.067	0.19
Methoxychlor	<0.097	U	0.097	0.49
Simazine	<0.074	U	0.074	0.49
Surrogate	%Rec	Acceptance Limits		
Triphenylphosphate	110	70 - 130		

## Analytical Data

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID:** LTM 04

Lab Sample ID: 680-42932-1

Date Sampled: 12/08/2008 0900

Client Matrix: Water

Date Received: 12/09/2008 0922

---

### 548.1 Endothall (GC/MS)

Method: 548.1

Analysis Batch: 680-125495

Instrument ID: GC/MS SemiVoa - R

Preparation: 548.1

Prep Batch: 680-124876

Lab File ID: R651.D

Dilution: 1.0

Initial Weight/Volume: 100 mL

Date Analyzed: 12/16/2008 0731

Final Weight/Volume: 1 mL

Date Prepared: 12/10/2008 0826

Injection Volume:

Analyte	Result (ug/L)	Qualifier	MDL	RL
Endothall	<2.6	U	2.6	10

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: Pond 1D**

Lab Sample ID: 680-42932-2

Date Sampled: 12/08/2008 1100

Client Matrix: Water

Date Received: 12/09/2008 0922

---

**548.1 Endothall (GC/MS)**

Method: 548.1  
Preparation: 548.1  
Dilution: 1.0  
Date Analyzed: 12/16/2008 0546  
Date Prepared: 12/10/2008 0826

Analysis Batch: 680-125495  
Prep Batch: 680-124876

Instrument ID: GC/MS SemiVoa - R  
Lab File ID: R641.D  
Initial Weight/Volume: 100 mL  
Final Weight/Volume: 1 mL  
Injection Volume:

---

Analyte	Result (ug/L)	Qualifier	MDL	RL
Endothall	<2.6	U	2.6	10

---



**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: LTM 04**

Lab Sample ID: 680-42932-1

Date Sampled: 12/08/2008 0900

Client Matrix: Water

Date Received: 12/09/2008 0922

---

**531.1 Carbamate Pesticides (HPLC)**

Method: 531.1  
Preparation: N/A  
Dilution: 100  
Date Analyzed: 12/19/2008 0556  
Date Prepared: N/A

Analysis Batch: 680-125903

Instrument ID: HPLC - J  
Lab File ID: 1J121831.D  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 1.0 mL  
Injection Volume: 4 uL

---

Analyte	Result (ug/L)	Qualifier	MDL	RL
Oxamyl	<42	U	42	250
Carbofuran	<16	U	16	250
Aldicarb	<38	U	38	250
Aldicarb sulfone	<37	U	37	250
Aldicarb sulfoxide	<51	U	51	250

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: Pond 1D**

Lab Sample ID: 680-42932-2

Date Sampled: 12/08/2008 1100

Client Matrix: Water

Date Received: 12/09/2008 0922

---

**531.1 Carbamate Pesticides (HPLC)**

Method: 531.1

Analysis Batch: 680-125903

Instrument ID: HPLC - J

Preparation: N/A

Lab File ID: 1J121832.D

Dilution: 1.0

Initial Weight/Volume: 1.0 mL

Date Analyzed: 12/19/2008 0635

Final Weight/Volume: 1.0 mL

Date Prepared: N/A

Injection Volume: 4 uL

---

Analyte	Result (ug/L)	Qualifier	MDL	RL
Oxamyl	<0.42	U	0.42	2.5
Carbofuran	<0.16	U	0.16	2.5
Aldicarb	<0.38	U	0.38	2.5
Aldicarb sulfone	<0.37	U	0.37	2.5
Aldicarb sulfoxide	<0.51	U	0.51	2.5

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: LTM 04**

Lab Sample ID: 680-42932-1

Date Sampled: 12/08/2008 0900

Client Matrix: Water

Date Received: 12/09/2008 0922

---

**547 Glyphosate (DAI HPLC)**

Method: 547  
Preparation: N/A  
Dilution: 50  
Date Analyzed: 12/22/2008 2054  
Date Prepared: N/A

Analysis Batch: 680-126103

Instrument ID: HPLC - K  
Lab File ID: 1K122235.D  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL  
Injection Volume: 100 uL

---

Analyte	Result (ug/L)	Qualifier	MDL	RL
Glyphosate	<100	U	100	1200

---

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: Pond 1D**

Lab Sample ID: 680-42932-2

Date Sampled: 12/08/2008 1100

Client Matrix: Water

Date Received: 12/09/2008 0922

---

**547 Glyphosate (DAI HPLC)**

Method: 547

Analysis Batch: 680-126103

Instrument ID: HPLC - K

Preparation: N/A

Lab File ID: 1K122236.D

Dilution: 1.0

Initial Weight/Volume:

Date Analyzed: 12/22/2008 2112

Final Weight/Volume: 1.0 mL

Date Prepared: N/A

Injection Volume: 100 uL

---

Analyte	Result (ug/L)	Qualifier	MDL	RL
Glyphosate	<2.0	U	2.0	25

---

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: LTM 04**

Lab Sample ID: 680-42932-1

Date Sampled: 12/08/2008 0900

Client Matrix: Water

Date Received: 12/09/2008 0922

---

**549.2 Diquat and Paraquat (HPLC)**

Method: 549.2  
Preparation: 549.2  
Dilution: 5.0  
Date Analyzed: 12/11/2008 2234  
Date Prepared: 12/10/2008 1846

Analysis Batch: 680-125240  
Prep Batch: 680-124990

Instrument ID: HPCL - M  
Lab File ID: 1M121120.D  
Initial Weight/Volume: 250 mL  
Final Weight/Volume: 10 mL  
Injection Volume: 20 uL

---

Analyte	Result (ug/L)	Qualifier	MDL	RL
Diquat	<0.70	U	0.70	25

---

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: Pond 1D**

Lab Sample ID: 680-42932-2

Date Sampled: 12/08/2008 1100

Client Matrix: Water

Date Received: 12/09/2008 0922

---

**549.2 Diquat and Paraquat (HPLC)**

Method: 549.2  
Preparation: 549.2  
Dilution: 1.0  
Date Analyzed: 12/11/2008 2243  
Date Prepared: 12/10/2008 1846

Analysis Batch: 680-125240  
Prep Batch: 680-124990

Instrument ID: HPCL - M  
Lab File ID: 1M121121.D  
Initial Weight/Volume: 250 mL  
Final Weight/Volume: 10 mL  
Injection Volume: 20 uL

---

Analyte	Result (ug/L)	Qualifier	MDL	RL
Diquat	<0.14	U	0.14	5.0

---

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: LTM 04**

Lab Sample ID: 680-42932-1  
Client Matrix: Water

Date Sampled: 12/08/2008 0900  
Date Received: 12/09/2008 0922

---

**504.1 EDB, DBCP and 1,2,3-TCP (GC)**

Method: 504.1  
Preparation: 504.1  
Dilution: 1.0  
Date Analyzed: 12/15/2008 1251  
Date Prepared: 12/15/2008 0905

Analysis Batch: 680-125493  
Prep Batch: 680-125332

Instrument ID: GC SemiVolatiles - X  
Lab File ID: xl15011.d  
Initial Weight/Volume: 34.26 mL  
Final Weight/Volume: 2.0 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane	0.019	I	0.0036	0.020
Ethylene Dibromide	<0.0043	U	0.0043	0.020
Surrogate	%Rec		Acceptance Limits	
1,2,3-Trichloropropane-(Surr)	103		70 - 130	

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: Pond 1D**

Lab Sample ID: 680-42932-2  
Client Matrix: Water

Date Sampled: 12/08/2008 1100  
Date Received: 12/09/2008 0922

---

**504.1 EDB, DBCP and 1,2,3-TCP (GC)**

Method: 504.1  
Preparation: 504.1  
Dilution: 1.0  
Date Analyzed: 12/15/2008 1231  
Date Prepared: 12/15/2008 0905

Analysis Batch: 680-125493  
Prep Batch: 680-125332

Instrument ID: GC SemiVolatiles - X  
Lab File ID: xl15009.d  
Initial Weight/Volume: 36.48 mL  
Final Weight/Volume: 2.0 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane	<0.0034	U	0.0034	0.019
Ethylene Dibromide	<0.0040	U	0.0040	0.019
Surrogate	%Rec		Acceptance Limits	
1,2,3-Trichloropropane-(Surr)	120		70 - 130	



## Analytical Data

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID:** LTM 04

Lab Sample ID: 680-42932-1

Date Sampled: 12/08/2008 0900

Client Matrix: Water

Date Received: 12/09/2008 0922

### 508 Chlorinated Pesticides & PCBs (GC)

Method: 508

Analysis Batch: 680-125071

Instrument ID: GC SemiVolatiles - M

Preparation: 508

Prep Batch: 680-124861

Lab File ID: ml10027.d

Dilution: 1.0

Initial Weight/Volume: 1060 mL

Date Analyzed: 12/10/2008 2309

Final Weight/Volume: 5 mL

Date Prepared: 12/09/2008 1810

Injection Volume: 1 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aldrin	<0.0083	U	0.0083	0.024
Chlordane (technical)	<0.025	U	0.025	0.24
PCB-1016	<0.063	U	0.063	0.47
PCB-1221	<0.091	U	0.091	0.47
PCB-1232	<0.049	U	0.049	0.47
PCB-1242	<0.081	U	0.081	0.47
PCB-1248	<0.049	U	0.049	0.47
Dieldrin	<0.0055	U	0.0055	0.047
PCB-1254	<0.054	U	0.054	0.47
PCB-1260	<0.043	U	0.043	0.47
Toxaphene	<0.24	U	0.24	2.4
Polychlorinated biphenyls, Total	<0.091	U	0.091	0.47
<hr/>				
Surrogate	%Rec		Acceptance Limits	
DCB Decachlorobiphenyl	108		70 - 130	
Tetrachloro-m-xylene	75		70 - 130	

Analytical Data

Client: Waste Management, Inc.

Job Number: 680-42932-1

Client Sample ID: Pond 1D

Lab Sample ID: 680-42932-2

Date Sampled: 12/08/2008 1100

Client Matrix: Water

Date Received: 12/09/2008 0922

508 Chlorinated Pesticides & PCBs (GC)

Method: 508

Analysis Batch: 680-125071

Instrument ID: GC SemiVolatiles - M

Preparation: 508

Prep Batch: 680-124861

Lab File ID: ml10028.d

Dilution: 1.0

Initial Weight/Volume: 1060 mL

Date Analyzed: 12/10/2008 2329

Final Weight/Volume: 5 mL

Date Prepared: 12/09/2008 1810

Injection Volume: 1 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aldrin	<0.0083	U	0.0083	0.024
Chlordane (technical)	<0.025	U	0.025	0.24
PCB-1016	<0.063	U	0.063	0.47
PCB-1221	<0.091	U	0.091	0.47
PCB-1232	<0.049	U	0.049	0.47
PCB-1242	<0.081	U	0.081	0.47
PCB-1248	<0.049	U	0.049	0.47
Dieldrin	<0.0055	U	0.0055	0.047
PCB-1254	<0.054	U	0.054	0.47
PCB-1260	<0.043	U	0.043	0.47
Toxaphene	<0.24	U	0.24	2.4
Polychlorinated biphenyls, Total	<0.091	U	0.091	0.47

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	83	70 - 130
Tetrachloro-m-xylene	75	70 - 130

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: LTM 04**

Lab Sample ID: 680-42932-1  
Client Matrix: Water

Date Sampled: 12/08/2008 0900  
Date Received: 12/09/2008 0922

---

**515.1 Herbicides (GC)**

Method: 515.1  
Preparation: 515.1  
Dilution: 1.0  
Date Analyzed: 12/22/2008 1521  
Date Prepared: 12/18/2008 0827

Analysis Batch: 680-126174  
Prep Batch: 680-125711

Instrument ID: GC SemiVolatiles - S  
Lab File ID: sl22018.d  
Initial Weight/Volume: 200 mL  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4-D	<0.23	U	0.23	2.5
Dalapon	<0.28	U	0.28	50
Dinoseb	<0.26	U	0.26	15
Pentachlorophenol	<0.12	U	0.12	5.0
Picloram	<0.50	U	0.50	2.5
Silvex (2,4,5-TP)	<0.23	U	0.23	2.5

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	118	70 - 130

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: Pond 1D**

Lab Sample ID: 680-42932-2  
Client Matrix: Water

Date Sampled: 12/08/2008 1100  
Date Received: 12/09/2008 0922

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**515.1 Herbicides (GC)**

Method: 515.1  
Preparation: 515.1  
Dilution: 1.0  
Date Analyzed: 12/22/2008 1539  
Date Prepared: 12/18/2008 0827

Analysis Batch: 680-126174  
Prep Batch: 680-125711

Instrument ID: GC SemiVolatiles - S  
Lab File ID: sl22019.d  
Initial Weight/Volume: 1010 mL  
Final Weight/Volume: 10 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4-D	<0.046	U	0.046	0.50
Dalapon	<0.056	U	0.056	9.9
Dinoseb	<0.051	U	0.051	3.0
Pentachlorophenol	<0.025	U	0.025	0.99
Picloram	<0.099	U	0.099	0.50
Silvex (2,4,5-TP)	<0.046	U	0.046	0.50

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	95	70 - 130

Analytical Data

Client: Waste Management, Inc.

Job Number: 680-42932-1

Client Sample ID: LTM 04

Lab Sample ID: 680-42932-1  
Client Matrix: Water

Date Sampled: 12/08/2008 0900  
Date Received: 12/09/2008 0922

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200.7 Rev 4.4 Metals (ICP)

Method: 200.7 Rev 4.4  
Preparation: 200.7  
Dilution: 1.0  
Date Analyzed: 12/19/2008 0652  
Date Prepared: 12/15/2008 1241

Analysis Batch: 680-125925  
Prep Batch: 680-125397

Instrument ID: ICP/AES - D  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

---

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chromium	120		1.3	10
Iron	7000		33	50
Nickel	230		1.6	40

Method: 200.7 Rev 4.4  
Preparation: 200.7  
Dilution: 100  
Date Analyzed: 12/19/2008 0226  
Date Prepared: 12/15/2008 1241

Analysis Batch: 680-125925  
Prep Batch: 680-125397

Instrument ID: ICP/AES - D  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

---

Analyte	Result (ug/L)	Qualifier	MDL	RL
Sodium	2800000		41000	100000

Analytical Data

Client: Waste Management, Inc.

Job Number: 680-42932-1

Client Sample ID: LTM 04

Lab Sample ID: 680-42932-1  
Client Matrix: Water

Date Sampled: 12/08/2008 0900  
Date Received: 12/09/2008 0922

200.8 Metals (ICP/MS)

Method: 200.8 Analysis Batch: 680-125485 Instrument ID: ICP MS - A  
Preparation: 200.8 Prep Batch: 680-125144 Lab File ID: N/A  
Dilution: 1.0 Initial Weight/Volume: 50 mL  
Date Analyzed: 12/13/2008 2032 Final Weight/Volume: 250 mL  
Date Prepared: 12/11/2008 1719

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	19000		15	50
Arsenic	230	V	0.38	2.5
Barium	93		2.0	5.0
Beryllium	0.51		0.060	0.50
Cadmium	0.69		0.092	0.50
Copper	25		1.2	5.0
Lead	7.9		0.12	1.5
Selenium	13		0.60	2.5
Silver	0.70	I V	0.090	1.0
Thallium	<0.55	U	0.55	1.0
Zinc	60		6.0	20

Method: 200.8 Analysis Batch: 680-125485 Instrument ID: ICP MS - A  
Preparation: 200.8 Prep Batch: 680-125144 Lab File ID: N/A  
Dilution: 4.0 Initial Weight/Volume: 50 mL  
Date Analyzed: 12/13/2008 2046 Final Weight/Volume: 250 mL  
Date Prepared: 12/11/2008 1719

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	<0.88	U	0.88	2.0

Method: 200.8 Analysis Batch: 680-125491 Instrument ID: ICP MS - A  
Preparation: 200.8 Prep Batch: 680-125144 Lab File ID: N/A  
Dilution: 4.0 Initial Weight/Volume: 50 mL  
Date Analyzed: 12/15/2008 1828 Final Weight/Volume: 250 mL  
Date Prepared: 12/11/2008 1719

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	37		1.4	10
Manganese	180		2.0	20

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: Pond 1D**

Lab Sample ID: 680-42932-2  
 Client Matrix: Water

Date Sampled: 12/08/2008 1100  
 Date Received: 12/09/2008 0922

**200.7 Rev 4.4 Metals (ICP)**

Method: 200.7 Rev 4.4      Analysis Batch: 680-125925      Instrument ID: ICP/AES - D  
 Preparation: 200.7      Prep Batch: 680-125397      Lab File ID: N/A  
 Dilution: 1.0      Initial Weight/Volume: 50 mL  
 Date Analyzed: 12/19/2008 0231      Final Weight/Volume: 50 mL  
 Date Prepared: 12/15/2008 1241

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chromium	<1.3	U	1.3	10
Iron	<33	U	33	50
Sodium	16000		410	1000
Nickel	<1.6	U	1.6	40

**200.8 Metals (ICP/MS)**

Method: 200.8      Analysis Batch: 680-125485      Instrument ID: ICP MS - A  
 Preparation: 200.8      Prep Batch: 680-125144      Lab File ID: N/A  
 Dilution: 1.0      Initial Weight/Volume: 50 mL  
 Date Analyzed: 12/13/2008 2059      Final Weight/Volume: 250 mL  
 Date Prepared: 12/11/2008 1719

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	120		15	50
Arsenic	2.0	I V	0.38	2.5
Barium	11		2.0	5.0
Beryllium	<0.060	U	0.060	0.50
Cadmium	<0.092	U	0.092	0.50
Copper	2.9	I	1.2	5.0
Lead	0.20	I	0.12	1.5
Mercury	<0.22	U	0.22	0.50
Selenium	<0.60	U	0.60	2.5
Silver	<0.090	U	0.090	1.0
Thallium	<0.55	U	0.55	1.0
Zinc	9.3	I	6.0	20

Method: 200.8      Analysis Batch: 680-125491      Instrument ID: ICP MS - A  
 Preparation: 200.8      Prep Batch: 680-125144      Lab File ID: N/A  
 Dilution: 1.0      Initial Weight/Volume: 50 mL  
 Date Analyzed: 12/15/2008 1834      Final Weight/Volume: 250 mL  
 Date Prepared: 12/11/2008 1719

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	<0.36	U	0.36	2.5
Manganese	3.3	I	0.50	5.0

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

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**Biology**

**Client Sample ID: LTM 04**

Lab Sample ID: 680-42932-4

Client Matrix: Water

Date Sampled: 12/17/2008 0820

Date Received: 12/17/2008 0909

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Coliform, Total	<1.0	U	CFU/100mL	1.0	1.0	1.0	SM 9222B
	Anly Batch: 680-126224	Date Analyzed	12/18/2008	1634			
Non-Coliform Growth	TNTC		CFU/100mL	1.0	1.0	1.0	SM 9222B
	Anly Batch: 680-126224	Date Analyzed	12/18/2008	1634			

**Client Sample ID: Pond 1D**

Lab Sample ID: 680-42932-5

Client Matrix: Water

Date Sampled: 12/17/2008 0900

Date Received: 12/17/2008 0909

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Coliform, Total	15		CFU/100mL	1.0	1.0	1.0	SM 9222B
	Anly Batch: 680-126224	Date Analyzed	12/18/2008	1634			
Non-Coliform Growth	TNTC		CFU/100mL	1.0	1.0	1.0	SM 9222B
	Anly Batch: 680-126224	Date Analyzed	12/18/2008	1634			

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**General Chemistry**



Analytical Data

Client: Waste Management, Inc.

Job Number: 680-42932-1

General Chemistry

Client Sample ID: LTM 04

Lab Sample ID: 680-42932-1  
 Client Matrix: Water

Date Sampled: 12/08/2008 0900  
 Date Received: 12/09/2008 0922

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	3500		mg/L	26	100	100	300.0
	Anly Batch: 680-125771	Date Analyzed		12/17/2008 1116			
Fluoride	<5.0	U	mg/L	5.0	20	100	300.0
	Anly Batch: 680-125771	Date Analyzed		12/17/2008 1116			
Sulfate	76	I	mg/L	50	100	100	300.0
	Anly Batch: 680-125771	Date Analyzed		12/17/2008 1116			
Cyanide, Total	0.024		mg/L	0.0050	0.010	1.0	335.4
	Anly Batch: 680-125187	Date Analyzed		12/12/2008 1037			
	Prep Batch: 680-125004	Date Prepared:		12/11/2008 0700			
Nitrate as N	<0.50	U	mg/L	0.50	1.0	20	353.2
	Anly Batch: 680-124866	Date Analyzed		12/09/2008 1628			
Nitrate Nitrite as N	<0.50	U	mg/L	0.50	1.0	20	353.2
	Anly Batch: 680-124866	Date Analyzed		12/09/2008 1628			
Nitrite as N	<0.20	U	mg/L	0.20	1.0	20	353.2
	Anly Batch: 680-124863	Date Analyzed		12/09/2008 1628			
Methylene Blue Active Substances	<1.0	U	mg/l LAS	1.0	2.0	10	SM 5540C
	Anly Batch: 680-124890	Date Analyzed		12/10/2008 0755			

Analyte	Result	Qual	Units		Dil	Method
pH	7.79	Q	SU		1.0	150.1
	Anly Batch: 680-125044	Date Analyzed		12/09/2008 1812		

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Color	50000		PCU	5000	5000	1000	SM 2120B
	Anly Batch: 680-125009	Date Analyzed		12/09/2008 1400			
Specific Conductance	3000		umhos/cm	5.0	5.0	1.0	SM 2510B
	Anly Batch: 680-125879	Date Analyzed		12/18/2008 1500			
Total Dissolved Solids	15000		mg/L	50	50	1.0	SM 2540C
	Anly Batch: 680-125075	Date Analyzed		12/11/2008 1305			

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**General Chemistry**

**Client Sample ID: Pond 1D**

Lab Sample ID: 680-42932-2  
 Client Matrix: Water

Date Sampled: 12/08/2008 1100  
 Date Received: 12/09/2008 0922

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	27		mg/L	1.3	5.0	5.0	300.0
	Anly Batch: 680-125531	Date Analyzed		12/15/2008 1920			
Fluoride	<0.25	U	mg/L	0.25	1.0	5.0	300.0
	Anly Batch: 680-125531	Date Analyzed		12/15/2008 1920			
Sulfate	62		mg/L	2.5	5.0	5.0	300.0
	Anly Batch: 680-125531	Date Analyzed		12/15/2008 1920			
Cyanide, Total	<0.0050	U	mg/L	0.0050	0.010	1.0	335.4
	Anly Batch: 680-125187	Date Analyzed		12/12/2008 1037			
	Prep Batch: 680-125004	Date Prepared:		12/11/2008 0700			
Nitrate as N	<0.025	U	mg/L	0.025	0.050	1.0	353.2
	Anly Batch: 680-124866	Date Analyzed		12/09/2008 1628			
Nitrate Nitrite as N	<0.025	U	mg/L	0.025	0.050	1.0	353.2
	Anly Batch: 680-124866	Date Analyzed		12/09/2008 1628			
Nitrite as N	<0.010	U	mg/L	0.010	0.050	1.0	353.2
	Anly Batch: 680-124863	Date Analyzed		12/09/2008 1628			
Methylene Blue Active Substances	<0.10	U	mg/l LAS	0.10	0.20	1.0	SM 5540C
	Anly Batch: 680-124890	Date Analyzed		12/10/2008 0755			

Analyte	Result	Qual	Units		Dil	Method
pH	7.88	Q	SU		1.0	150.1
	Anly Batch: 680-125115	Date Analyzed		12/11/2008 1324		

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Color	90		PCU	10	10	2.0	SM 2120B
	Anly Batch: 680-125009	Date Analyzed		12/09/2008 1400			
Specific Conductance	370		umhos/cm	5.0	5.0	1.0	SM 2510B
	Anly Batch: 680-126086	Date Analyzed		12/19/2008 1724			
Total Dissolved Solids	230		mg/L	5.0	5.0	1.0	SM 2540C
	Anly Batch: 680-125075	Date Analyzed		12/11/2008 1249			
Odor	<1.0	U	T.O.N.	1.0	1.0	1.0	SM 2150B
	Anly Batch: 680-125011	Date Analyzed		12/10/2008 1030			

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

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**General Chemistry**

**Client Sample ID: LTM 04**

Lab Sample ID: 680-42932-7

Date Sampled: 12/19/2008 0000

Client Matrix: Water

Date Received: 12/20/2008 2359

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Odor	260		T.O.N.	1.0	1.0	1.0	140.1
	Anly Batch: 660-72706		Date Analyzed	12/20/2008	1130		

## DATA REPORTING QUALIFIERS

Client: Waste Management, Inc.

Job Number: 680-42932-1

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
GC/MS VOA		
	J	Estimated value; value may not be accurate.
	U	Indicates that the compound was analyzed for but not detected.
	Q	Sample held beyond the accepted holding time.
GC/MS Semi VOA		
	J	Estimated value; value may not be accurate.
	U	Indicates that the compound was analyzed for but not detected.
HPLC		
	U	Indicates that the compound was analyzed for but not detected.
GC Semi VOA		
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Metals		
	U	Indicates that the compound was analyzed for but not detected.
	V	Indicates the analyte was detected in both the sample and the associated method blank.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

## DATA REPORTING QUALIFIERS

Client: Waste Management, Inc.

Job Number: 680-42932-1

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
General Chemistry		
	U	Indicates that the compound was analyzed for but not detected.
	Q	Sample held beyond the accepted holding time.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Biology		
	U	Indicates that the compound was analyzed for but not detected.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-125333**

**Method: 524.2**

**Preparation: N/A**

Lab Sample ID: MB 680-125333/27  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/12/2008 1327  
 Date Prepared: N/A

Analysis Batch: 680-125333  
 Prep Batch: N/A  
 Units: ug/L

Instrument ID: GC/MS Volatiles - U  
 Lab File ID: uq304.d  
 Initial Weight/Volume: 5 mL  
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
cis-1,2-Dichloroethene	<0.25	U	0.25	0.50
Xylenes, Total	<0.44	U	0.44	0.50
1,2,4-Trichlorobenzene	<0.38	U	0.38	0.50
Trichloroethene	<0.20	U	0.20	0.50
Trihalomethanes, Total	<0.16	U	0.16	0.50
Methylene Chloride	<0.21	U	0.21	0.50
1,2-Dichlorobenzene	<0.23	U	0.23	0.50
1,4-Dichlorobenzene	<0.17	U	0.17	0.50
Vinyl chloride	<0.29	U	0.29	0.50
1,1-Dichloroethene	<0.24	U	0.24	0.50
trans-1,2-Dichloroethene	<0.22	U	0.22	0.50
1,2-Dichloroethane	<0.19	U	0.19	0.50
1,1,1-Trichloroethane	<0.16	U	0.16	0.50
Carbon tetrachloride	<0.38	U	0.38	0.50
1,2-Dichloropropane	<0.22	U	0.22	0.50
1,1,2-Trichloroethane	<0.25	U	0.25	0.50
Tetrachloroethene	<0.22	U	0.22	0.50
Chlorobenzene	<0.19	U	0.19	0.50
Benzene	<0.19	U	0.19	0.50
Toluene	<0.21	U	0.21	0.50
Chloroform	<0.20	U	0.20	0.50
Ethylbenzene	<0.18	U	0.18	0.50
Dichlorobromomethane	<0.19	U	0.19	0.50
Styrene	<0.30	U	0.30	0.50
Bromoform	<0.17	U	0.17	0.50
Chlorodibromomethane	<0.16	U	0.16	0.50
Chloroethane	<0.36	U	0.36	1.0
Surrogate	% Rec	Acceptance Limits		
1,2-Dichlorobenzene-d4	85	70 - 130		
4-Bromofluorobenzene	89	70 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Lab Control Spike/  
Lab Control Spike Duplicate Recovery Report - Batch: 680-125333**

**Method: 524.2  
Preparation: N/A**

LCS Lab Sample ID: LCS 680-125333/25  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/12/2008 1207  
Date Prepared: N/A

Analysis Batch: 680-125333  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - U  
Lab File ID: uq302.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-125333/26  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/12/2008 1227  
Date Prepared: N/A

Analysis Batch: 680-125333  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - U  
Lab File ID: uq303.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
cis-1,2-Dichloroethene	97	97	70 - 130	0	30		
Xylenes, Total	110	103	70 - 130	7	30		
1,2,4-Trichlorobenzene	130	118	70 - 130	10	30		
Trichloroethene	125	121	70 - 130	4	30		
Methylene Chloride	98	91	70 - 130	7	30		
1,2-Dichlorobenzene	106	102	70 - 130	4	30		
1,4-Dichlorobenzene	110	102	70 - 130	7	30		
Vinyl chloride	98	91	70 - 130	7	30		
1,1-Dichloroethene	99	92	70 - 130	7	30		
trans-1,2-Dichloroethene	111	101	70 - 130	9	30		
1,2-Dichloroethane	108	101	70 - 130	7	30		
1,1,1-Trichloroethane	104	96	70 - 130	8	30		
Carbon tetrachloride	115	109	70 - 130	6	30		
1,2-Dichloropropane	114	109	70 - 130	5	30		
1,1,2-Trichloroethane	130	123	70 - 130	5	30		
Tetrachloroethene	103	95	70 - 130	8	30		
Chlorobenzene	108	103	70 - 130	5	30		
Benzene	115	103	70 - 130	11	30		
Toluene	110	105	70 - 130	4	30		
Chloroform	110	102	70 - 130	7	30		
Ethylbenzene	119	107	70 - 130	10	30		
Dichlorobromomethane	132	124	70 - 130	6	30	J	
Styrene	108	103	70 - 130	4	30		
Bromoform	121	114	70 - 130	6	30		
Chlorodibromomethane	126	121	70 - 130	4	30		
Chloroethane	88	87	70 - 130	2	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-125955**

**Method: 524.2**

**Preparation: N/A**

Lab Sample ID: MB 680-125955/28  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/18/2008 1704  
 Date Prepared: N/A

Analysis Batch: 680-125955  
 Prep Batch: N/A  
 Units: ug/L

Instrument ID: GC/MS Volatiles - U  
 Lab File ID: uq414.d  
 Initial Weight/Volume: 5 mL  
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
cis-1,2-Dichloroethene	<0.25	U	0.25	0.50
Xylenes, Total	<0.44	U	0.44	0.50
1,2,4-Trichlorobenzene	<0.38	U	0.38	0.50
Trichloroethene	<0.20	U	0.20	0.50
Trihalomethanes, Total	<0.16	U	0.16	0.50
Methylene Chloride	<0.21	U	0.21	0.50
1,2-Dichlorobenzene	<0.23	U	0.23	0.50
1,4-Dichlorobenzene	<0.17	U	0.17	0.50
Vinyl chloride	<0.29	U	0.29	0.50
1,1-Dichloroethene	<0.24	U	0.24	0.50
trans-1,2-Dichloroethene	<0.22	U	0.22	0.50
1,2-Dichloroethane	<0.19	U	0.19	0.50
1,1,1-Trichloroethane	<0.16	U	0.16	0.50
Carbon tetrachloride	<0.38	U	0.38	0.50
1,2-Dichloropropane	<0.22	U	0.22	0.50
1,1,2-Trichloroethane	<0.25	U	0.25	0.50
Tetrachloroethene	<0.22	U	0.22	0.50
Chlorobenzene	<0.19	U	0.19	0.50
Benzene	<0.19	U	0.19	0.50
Toluene	<0.21	U	0.21	0.50
Chloroform	<0.20	U	0.20	0.50
Ethylbenzene	<0.18	U	0.18	0.50
Dichlorobromomethane	<0.19	U	0.19	0.50
Styrene	<0.30	U	0.30	0.50
Bromoform	<0.17	U	0.17	0.50
Chlorodibromomethane	<0.16	U	0.16	0.50
Chloroethane	<0.36	U	0.36	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	83	70 - 130
4-Bromofluorobenzene	89	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.



## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Lab Control Spike/  
Lab Control Spike Duplicate Recovery Report - Batch: 680-125955**

**Method: 524.2  
Preparation: N/A**

LCS Lab Sample ID: LCS 680-125955/26  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/18/2008 1544  
Date Prepared: N/A

Analysis Batch: 680-125955  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - U  
Lab File ID: uq412.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-125955/27  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/18/2008 1604  
Date Prepared: N/A

Analysis Batch: 680-125955  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - U  
Lab File ID: uq413.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
cis-1,2-Dichloroethene	95	90	70 - 130	5	30		
Xylenes, Total	104	103	70 - 130	1	30		
1,2,4-Trichlorobenzene	113	118	70 - 130	5	30		
Trichloroethene	121	121	70 - 130	0	30		
Methylene Chloride	96	92	70 - 130	4	30		
1,2-Dichlorobenzene	96	98	70 - 130	2	30		
1,4-Dichlorobenzene	103	105	70 - 130	2	30		
Vinyl chloride	93	95	70 - 130	2	30		
1,1-Dichloroethene	95	94	70 - 130	1	30		
trans-1,2-Dichloroethene	99	99	70 - 130	0	30		
1,2-Dichloroethane	106	108	70 - 130	1	30		
1,1,1-Trichloroethane	98	98	70 - 130	0	30		
Carbon tetrachloride	107	109	70 - 130	1	30		
1,2-Dichloropropane	107	105	70 - 130	1	30		
1,1,2-Trichloroethane	123	118	70 - 130	4	30		
Tetrachloroethene	92	95	70 - 130	3	30		
Chlorobenzene	101	102	70 - 130	1	30		
Benzene	108	105	70 - 130	4	30		
Toluene	104	100	70 - 130	4	30		
Chloroform	103	103	70 - 130	0	30		
Ethylbenzene	113	113	70 - 130	0	30		
Dichlorobromomethane	122	131	70 - 130	7	30		J
Styrene	102	102	70 - 130	0	30		
Bromoform	110	107	70 - 130	2	30		
Chlorodibromomethane	116	116	70 - 130	0	30		
Chloroethane	83	86	70 - 130	4	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-125966**

**Method: 524.2**

**Preparation: N/A**

Lab Sample ID: MB 680-125966/25  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/19/2008 0526  
 Date Prepared: N/A

Analysis Batch: 680-125966  
 Prep Batch: N/A  
 Units: ug/L

Instrument ID: GC/MS Volatiles - U  
 Lab File ID: uq424.d  
 Initial Weight/Volume: 5 mL  
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
cis-1,2-Dichloroethene	<0.25	U	0.25	0.50
Xylenes, Total	<0.44	U	0.44	0.50
1,2,4-Trichlorobenzene	<0.38	U	0.38	0.50
Trichloroethene	<0.20	U	0.20	0.50
Trihalomethanes, Total	<0.16	U	0.16	0.50
Methylene Chloride	<0.21	U	0.21	0.50
1,2-Dichlorobenzene	<0.23	U	0.23	0.50
1,4-Dichlorobenzene	<0.17	U	0.17	0.50
Vinyl chloride	<0.29	U	0.29	0.50
1,1-Dichloroethene	<0.24	U	0.24	0.50
trans-1,2-Dichloroethene	<0.22	U	0.22	0.50
1,2-Dichloroethane	<0.19	U	0.19	0.50
1,1,1-Trichloroethane	<0.16	U	0.16	0.50
Carbon tetrachloride	<0.38	U	0.38	0.50
1,2-Dichloropropane	<0.22	U	0.22	0.50
1,1,2-Trichloroethane	<0.25	U	0.25	0.50
Tetrachloroethene	<0.22	U	0.22	0.50
Chlorobenzene	<0.19	U	0.19	0.50
Benzene	<0.19	U	0.19	0.50
Toluene	<0.21	U	0.21	0.50
Chloroform	<0.20	U	0.20	0.50
Ethylbenzene	<0.18	U	0.18	0.50
Dichlorobromomethane	<0.19	U	0.19	0.50
Styrene	<0.30	U	0.30	0.50
Bromoform	<0.17	U	0.17	0.50
Chlorodibromomethane	<0.16	U	0.16	0.50
Chloroethane	<0.36	U	0.36	1.0
Surrogate	% Rec	Acceptance Limits		
1,2-Dichlorobenzene-d4	76	70 - 130		
4-Bromofluorobenzene	84	70 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Lab Control Spike/  
Lab Control Spike Duplicate Recovery Report - Batch: 680-125966**

**Method: 524.2  
Preparation: N/A**

LCS Lab Sample ID: LCS 680-125966/23  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/19/2008 0406  
Date Prepared: N/A

Analysis Batch: 680-125966  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - U  
Lab File ID: uq422.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-125966/24  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/19/2008 0426  
Date Prepared: N/A

Analysis Batch: 680-125966  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - U  
Lab File ID: uq423.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
cis-1,2-Dichloroethene	95	94	70 - 130	2	30		
Xylenes, Total	103	104	70 - 130	0	30		
1,2,4-Trichlorobenzene	104	109	70 - 130	5	30		
Trichloroethene	125	125	70 - 130	0	30		
Methylene Chloride	94	98	70 - 130	4	30		
1,2-Dichlorobenzene	98	96	70 - 130	2	30		
1,4-Dichlorobenzene	96	94	70 - 130	2	30		
Vinyl chloride	98	98	70 - 130	0	30		
1,1-Dichloroethene	98	95	70 - 130	3	30		
trans-1,2-Dichloroethene	100	100	70 - 130	0	30		
1,2-Dichloroethane	112	107	70 - 130	5	30		
1,1,1-Trichloroethane	101	100	70 - 130	1	30		
Carbon tetrachloride	109	104	70 - 130	5	30		
1,2-Dichloropropane	109	110	70 - 130	1	30		
1,1,2-Trichloroethane	122	120	70 - 130	2	30		
Tetrachloroethene	98	98	70 - 130	0	30		
Chlorobenzene	103	101	70 - 130	2	30		
Benzene	113	110	70 - 130	2	30		
Toluene	100	101	70 - 130	1	30		
Chloroform	107	104	70 - 130	3	30		
Ethylbenzene	113	114	70 - 130	0	30		
Dichlorobromomethane	130	127	70 - 130	3	30		
Styrene	101	101	70 - 130	0	30		
Bromoform	104	99	70 - 130	5	30		
Chlorodibromomethane	112	111	70 - 130	1	30		
Chloroethane	91	90	70 - 130	1	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Lab Control Spike/  
Lab Control Spike Duplicate Recovery Report - Batch: 680-125154**

**Method: 525.2  
Preparation: 525.2**

LCS Lab Sample ID: LCS 680-125154/22-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/15/2008 2121  
Date Prepared: 12/12/2008 0814

Analysis Batch: 680-125513  
Prep Batch: 680-125154  
Units: ug/L

Instrument ID: GC/MS SemiVoa - R  
Lab File ID: R620.D  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

LCSD Lab Sample ID: LCSD 680-125154/23-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/15/2008 2141  
Date Prepared: 12/12/2008 0814

Analysis Batch: 680-125513  
Prep Batch: 680-125154  
Units: ug/L

Instrument ID: GC/MS SemiVoa - R  
Lab File ID: R621.D  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Bis(2-ethylhexyl) phthalate	84	81	70 - 130	4	30		
Di(2-ethylhexyl)adipate	88	85	70 - 130	4	30		
Heptachlor	83	83	70 - 130	0	30		
Heptachlor epoxide	90	88	70 - 130	3	30		
Endrin	90	81	70 - 130	10	30		
Hexachlorobenzene	91	91	70 - 130	0	30		
Hexachlorocyclopentadiene	115	110	70 - 130	4	30		
gamma-BHC (Lindane)	88	86	70 - 130	2	30		
Methoxychlor	88	87	70 - 130	0	30		
Simazine	90	87	70 - 130	4	30		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
Triphenylphosphate	95		93	70 - 130			

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-124876**

Lab Sample ID: MB 680-124876/9-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/16/2008 0413  
 Date Prepared: 12/10/2008 0826

Analysis Batch: 680-125495  
 Prep Batch: 680-124876  
 Units: ug/L

**Method: 548.1  
 Preparation: 548.1**

Instrument ID: GC/MS SemiVoa - R  
 Lab File ID: R633.D  
 Initial Weight/Volume: 100 mL  
 Final Weight/Volume: 1 mL  
 Injection Volume:

Analyte	Result	Qual	MDL	RL
Endothall	<2.6	U	2.6	10

**Lab Control Spike/  
 Lab Control Spike Duplicate Recovery Report - Batch: 680-124876**

**Method: 548.1  
 Preparation: 548.1**

LCS Lab Sample ID: LCS 680-124876/10-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/16/2008 0350  
 Date Prepared: 12/10/2008 0826

Analysis Batch: 680-125495  
 Prep Batch: 680-124876  
 Units: ug/L

Instrument ID: GC/MS SemiVoa - R  
 Lab File ID: R631.D  
 Initial Weight/Volume: 100 mL  
 Final Weight/Volume: 1 mL  
 Injection Volume:

LCSD Lab Sample ID: LCSD 680-124876/11-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/16/2008 0401  
 Date Prepared: 12/10/2008 0826

Analysis Batch: 680-125495  
 Prep Batch: 680-124876  
 Units: ug/L

Instrument ID: GC/MS SemiVoa - R  
 Lab File ID: R632.D  
 Initial Weight/Volume: 100 mL  
 Final Weight/Volume: 1 mL  
 Injection Volume:

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Endothall	83	81	60 - 140	2	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-125903**

**Method: 531.1**  
**Preparation: N/A**

Lab Sample ID: MB 680-125903/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/18/2008 1254  
Date Prepared: N/A

Analysis Batch: 680-125903  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HPLC - J  
Lab File ID: 1J121805.D  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 1.0 mL  
Injection Volume: 4 uL

Analyte	Result	Qual	MDL	RL
Oxamyl	<0.42	U	0.42	2.5
Carbofuran	<0.16	U	0.16	2.5
Aldicarb	<0.38	U	0.38	2.5
Aldicarb sulfone	<0.37	U	0.37	2.5
Aldicarb sulfoxide	<0.51	U	0.51	2.5

**Lab Control Spike/  
Lab Control Spike Duplicate Recovery Report - Batch: 680-125903**

**Method: 531.1**  
**Preparation: N/A**

LCS Lab Sample ID: LCS 680-125903/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/18/2008 1333  
Date Prepared: N/A

Analysis Batch: 680-125903  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HPLC - J  
Lab File ID: 1J121806.D  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 10 mL  
Injection Volume: 4 uL

LCSD Lab Sample ID: LCSD 680-125903/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/18/2008 1412  
Date Prepared: N/A

Analysis Batch: 680-125903  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HPLC - J  
Lab File ID: 1J121807.D  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 10 mL  
Injection Volume: 4 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Oxamyl	96	89	80 - 120	8	20		
Carbofuran	90	83	80 - 120	8	20		
Aldicarb	90	85	80 - 120	6	20		
Aldicarb sulfone	90	84	80 - 120	7	20		
Aldicarb sulfoxide	92	87	80 - 120	6	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-126103**

**Method: 547**  
**Preparation: N/A**

Lab Sample ID: MB 680-126103/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/22/2008 1409  
Date Prepared: N/A

Analysis Batch: 680-126103  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HPLC - K  
Lab File ID: 1K122212.D  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL  
Injection Volume: 100 uL

Analyte	Result	Qual	MDL	RL
Glyphosate	<2.0	U	2.0	25

**Lab Control Spike/  
Lab Control Spike Duplicate Recovery Report - Batch: 680-126103**

**Method: 547**  
**Preparation: N/A**

LCS Lab Sample ID: LCS 680-126103/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/22/2008 1427  
Date Prepared: N/A

Analysis Batch: 680-126103  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HPLC - K  
Lab File ID: 1K122213.D  
Initial Weight/Volume:  
Final Weight/Volume: 10 mL  
Injection Volume: 100 uL

LCSD Lab Sample ID: LCSD 680-126103/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/22/2008 1445  
Date Prepared: N/A

Analysis Batch: 680-126103  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HPLC - K  
Lab File ID: 1K122214.D  
Initial Weight/Volume:  
Final Weight/Volume: 10 mL  
Injection Volume: 100 uL

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Glyphosate	105	108	70 - 130	3	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

**Quality Control Results**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-124990**

Lab Sample ID: MB 680-124990/12-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/11/2008 2018  
 Date Prepared: 12/10/2008 1846

Analysis Batch: 680-125240  
 Prep Batch: 680-124990  
 Units: ug/L

**Method: 549.2  
 Preparation: 549.2**

Instrument ID: HPCL - M  
 Lab File ID: 1M121106.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 10 mL  
 Injection Volume: 20 uL

Analyte	Result	Qual	MDL	RL
Diquat	<0.14	U	0.14	5.0

**Lab Control Spike/  
 Lab Control Spike Duplicate Recovery Report - Batch: 680-124990**

LCS Lab Sample ID: LCS 680-124990/13-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/11/2008 2028  
 Date Prepared: 12/10/2008 1846

Analysis Batch: 680-125240  
 Prep Batch: 680-124990  
 Units: ug/L

**Method: 549.2  
 Preparation: 549.2**

Instrument ID: HPCL - M  
 Lab File ID: 1M121107.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 10 mL  
 Injection Volume: 20 uL

LCSD Lab Sample ID: LCSD 680-124990/14-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/11/2008 2038  
 Date Prepared: 12/10/2008 1846

Analysis Batch: 680-125240  
 Prep Batch: 680-124990  
 Units: ug/L

Instrument ID: HPCL - M  
 Lab File ID: 1M121108.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 10 mL  
 Injection Volume: 20 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diquat	95	93	70 - 130	3	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.



## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-125332**

**Method: 504.1  
Preparation: 504.1**

Lab Sample ID: MB 680-125332/4-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/15/2008 1152  
Date Prepared: 12/15/2008 0905

Analysis Batch: 680-125493  
Prep Batch: 680-125332  
Units: ug/L

Instrument ID: GC SemiVolatiles - X  
Lab File ID: xl15005.d  
Initial Weight/Volume: 35.06 mL  
Final Weight/Volume: 2.0 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
1,2-Dibromo-3-Chloropropane	<0.0035	U	0.0035	0.020
Ethylene Dibromide	<0.0042	U	0.0042	0.020
Surrogate	% Rec	Acceptance Limits		
1,2,3-Trichloropropane-(Surr)	93	70 - 130		

**Lab Control Spike/  
Lab Control Spike Duplicate Recovery Report - Batch: 680-125332**

**Method: 504.1  
Preparation: 504.1**

LCS Lab Sample ID: LCS 680-125332/5-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/15/2008 1202  
Date Prepared: 12/15/2008 0905

Analysis Batch: 680-125493  
Prep Batch: 680-125332  
Units: ug/L

Instrument ID: GC SemiVolatiles - X  
Lab File ID: xl15006.d  
Initial Weight/Volume: 35.21 mL  
Final Weight/Volume: 2.0 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 680-125332/6-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/15/2008 1212  
Date Prepared: 12/15/2008 0905

Analysis Batch: 680-125493  
Prep Batch: 680-125332  
Units: ug/L

Instrument ID: GC SemiVolatiles - X  
Lab File ID: xl15007.d  
Initial Weight/Volume: 34.37 mL  
Final Weight/Volume: 2.0 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,2-Dibromo-3-Chloropropane	99	88	70 - 130	10	30		
Ethylene Dibromide	85	77	70 - 130	8	30		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
1,2,3-Trichloropropane-(Surr)	117		97	70 - 130			

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-124861**

**Method: 508**

**Preparation: 508**

Lab Sample ID: MB 680-124861/11-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/10/2008 1856  
 Date Prepared: 12/09/2008 1810

Analysis Batch: 680-125071  
 Prep Batch: 680-124861  
 Units: ug/L

Instrument ID: GC SemiVolatiles - M  
 Lab File ID: ml10014.d  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 5 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Aldrin	<0.0088	U	0.0088	0.025
Chlordane (technical)	<0.026	U	0.026	0.25
PCB-1016	<0.067	U	0.067	0.50
PCB-1221	<0.096	U	0.096	0.50
PCB-1232	<0.052	U	0.052	0.50
PCB-1242	<0.086	U	0.086	0.50
PCB-1248	<0.052	U	0.052	0.50
Dieldrin	<0.0058	U	0.0058	0.050
PCB-1254	<0.057	U	0.057	0.50
PCB-1260	<0.046	U	0.046	0.50
Toxaphene	<0.25	U	0.25	2.5
Polychlorinated biphenyls, Total	<0.096	U	0.096	0.50
Surrogate	% Rec		Acceptance Limits	
DCB Decachlorobiphenyl	88		70 - 130	
Tetrachloro-m-xylene	92		70 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Lab Control Spike/  
Lab Control Spike Duplicate Recovery Report - Batch: 680-124861**

**Method: 508  
Preparation: 508**

LCS Lab Sample ID: LCS 680-124861/12-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/10/2008 1916  
Date Prepared: 12/09/2008 1810

Analysis Batch: 680-125071  
Prep Batch: 680-124861  
Units: ug/L

Instrument ID: GC SemiVolatiles - M  
Lab File ID: ml10015.d  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 5 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 680-124861/13-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/10/2008 1935  
Date Prepared: 12/09/2008 1810

Analysis Batch: 680-125071  
Prep Batch: 680-124861  
Units: ug/L

Instrument ID: GC SemiVolatiles - M  
Lab File ID: ml10016.d  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 5 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Aldrin	87	78	56 - 116	12	20		
Dieldrin	92	84	57 - 117	9	20		

**Lab Control Spike/  
Lab Control Spike Duplicate Recovery Report - Batch: 680-124861**

**Method: 508  
Preparation: 508**

LCS Lab Sample ID: LCS 680-124861/14-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/10/2008 1955  
Date Prepared: 12/09/2008 1810

Analysis Batch: 680-125071  
Prep Batch: 680-124861  
Units: ug/L

Instrument ID: GC SemiVolatiles - M  
Lab File ID: ml10017.d  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 5 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 680-124861/15-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/10/2008 2014  
Date Prepared: 12/09/2008 1810

Analysis Batch: 680-125071  
Prep Batch: 680-124861  
Units: ug/L

Instrument ID: GC SemiVolatiles - M  
Lab File ID: ml10018.d  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 5 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
PCB-1016	81	78	70 - 130	3	20		
PCB-1260	84	92	70 - 130	9	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-125711**

**Method: 515.1  
Preparation: 515.1**

Lab Sample ID: MB 680-125711/16-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/22/2008 1824  
 Date Prepared: 12/18/2008 0827

Analysis Batch: 680-126174  
 Prep Batch: 680-125711  
 Units: ug/L

Instrument ID: GC SemiVolatiles - S  
 Lab File ID: sl22028.d  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 10 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
2,4-D	<0.046	U	0.046	0.50
Dalapon	<0.057	U	0.057	10
Dinoseb	<0.052	U	0.052	3.0
Pentachlorophenol	<0.025	U	0.025	1.0
Picloram	<0.10	U	0.10	0.50
Silvex (2,4,5-TP)	<0.046	U	0.046	0.50
Surrogate	% Rec		Acceptance Limits	
2,4-Dichlorophenylacetic acid	114		70 - 130	

**Lab Control Spike - Batch: 680-125711**

**Method: 515.1  
Preparation: 515.1**

Lab Sample ID: LCS 680-125711/17-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/22/2008 1842  
 Date Prepared: 12/18/2008 0827

Analysis Batch: 680-126174  
 Prep Batch: 680-125711  
 Units: ug/L

Instrument ID: GC SemiVolatiles - S  
 Lab File ID: sl22029.d  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 10 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4-D	2.00	1.85	92	49 - 214	
Dalapon	2.00	1.94	97	40 - 160	I
Dinoseb	2.00	1.29	65	10 - 121	I
Pentachlorophenol	1.00	0.629	63	36 - 223	I
Picloram	2.00	1.34	67	45 - 138	
Silvex (2,4,5-TP)	2.00	1.42	71	42 - 226	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

### Method Blank - Batch: 680-125397

Lab Sample ID: MB 680-125397/21-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/19/2008 0216  
Date Prepared: 12/15/2008 1241

Analysis Batch: 680-125925  
Prep Batch: 680-125397  
Units: ug/L

### Method: 200.7 Rev 4.4 Preparation: 200.7

Instrument ID: ICP/AES - D  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Chromium	<1.3	U	1.3	10
Iron	<33	U	33	50
Sodium	<410	U	410	1000
Nickel	<1.6	U	1.6	40

### Lab Control Spike - Batch: 680-125397

Lab Sample ID: LCS 680-125397/22-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/19/2008 1113  
Date Prepared: 12/15/2008 1241

Analysis Batch: 680-125925  
Prep Batch: 680-125397  
Units: ug/L

### Method: 200.7 Rev 4.4 Preparation: 200.7

Instrument ID: ICP/AES - D  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chromium	200	209	105	85 - 115	
Iron	1000	1020	102	85 - 115	
Sodium	5000	5630	113	85 - 115	
Nickel	500	520	104	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-125144**

Lab Sample ID: MB 680-125144/6-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/13/2008 2019  
 Date Prepared: 12/11/2008 1719

Analysis Batch: 680-125485  
 Prep Batch: 680-125144  
 Units: ug/L

**Method: 200.8  
 Preparation: 200.8**

Instrument ID: ICP MS - A  
 Lab File ID: N/A  
 Initial Weight/Volume: 50 mL  
 Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Aluminum	<15	U	15	50
Arsenic	0.55	I	0.38	2.5
Barium	<2.0	U	2.0	5.0
Beryllium	<0.060	U	0.060	0.50
Cadmium	<0.092	U	0.092	0.50
Copper	<1.2	U	1.2	5.0
Lead	<0.12	U	0.12	1.5
Mercury	<0.22	U	0.22	0.50
Selenium	<0.60	U	0.60	2.5
Silver	0.11	I	0.090	1.0
Thallium	<0.55	U	0.55	1.0
Zinc	<6.0	U	6.0	20

**Method Blank - Batch: 680-125144**

Lab Sample ID: MB 680-125144/6-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/15/2008 1814  
 Date Prepared: 12/11/2008 1719

Analysis Batch: 680-125491  
 Prep Batch: 680-125144  
 Units: ug/L

**Method: 200.8  
 Preparation: 200.8**

Instrument ID: ICP MS - A  
 Lab File ID: N/A  
 Initial Weight/Volume: 50 mL  
 Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Antimony	<0.36	U	0.36	2.5
Manganese	<0.50	U	0.50	5.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

### Lab Control Spike - Batch: 680-125144

Method: 200.8

Preparation: 200.8

Lab Sample ID: LCS 680-125144/7-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/13/2008 2026  
Date Prepared: 12/11/2008 1719

Analysis Batch: 680-125485  
Prep Batch: 680-125144  
Units: ug/L

Instrument ID: ICP MS - A  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	5000	5360	107	85 - 115	
Arsenic	100	106	106	85 - 115	
Barium	100	103	103	85 - 115	
Beryllium	50.0	48.1	96	85 - 115	
Cadmium	50.0	52.5	105	85 - 115	
Copper	100	114	114	85 - 115	
Lead	50.0	52.8	106	85 - 115	
Mercury	5.00	5.12	102	85 - 115	
Selenium	100	106	106	85 - 115	
Silver	50.0	55.2	110	85 - 115	
Thallium	40.0	42.5	106	85 - 115	
Zinc	100	106	106	85 - 115	

### Lab Control Spike - Batch: 680-125144

Method: 200.8

Preparation: 200.8

Lab Sample ID: LCS 680-125144/7-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/15/2008 1821  
Date Prepared: 12/11/2008 1719

Analysis Batch: 680-125491  
Prep Batch: 680-125144  
Units: ug/L

Instrument ID: ICP MS - A  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	50.0	49.2	98	85 - 115	
Manganese	500	500	100	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

### Method Blank - Batch: 660-72706

Lab Sample ID: MB 660-72706/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/20/2008 1130  
Date Prepared: N/A

Analysis Batch: 660-72706  
Prep Batch: N/A  
Units: T.O.N.

### Method: 140.1 Preparation: N/A

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 200 mL

Analyte	Result	Qual	RL	RL
Odor	<1.0	U	1.0	1.0

### Duplicate - Batch: 660-72706

Lab Sample ID: 680-42932-7  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/20/2008 1130  
Date Prepared: N/A

Analysis Batch: 660-72706  
Prep Batch: N/A  
Units: T.O.N.

### Method: 140.1 Preparation: N/A

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 200 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Odor	260	256	0		

Calculations are performed before rounding to avoid round-off errors in calculated results.



**Quality Control Results**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Lab Control Spike - Batch: 680-125044**

**Method: 150.1**  
**Preparation: N/A**

Lab Sample ID: LCS 680-125044/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/09/2008 1808  
Date Prepared: N/A

Analysis Batch: 680-125044  
Prep Batch: N/A  
Units: SU

Instrument ID: PC Titrate - Mantech1  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	7.00	7.020	100	63 - 158	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

### Lab Control Spike - Batch: 680-125115

**Method: 150.1**

**Preparation: N/A**

Lab Sample ID: LCS 680-125115/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/11/2008 1321  
Date Prepared: N/A

Analysis Batch: 680-125115  
Prep Batch: N/A  
Units: SU

Instrument ID: PC Titrate - Mantech1  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 25 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	7.00	7.030	100	63 - 158	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-125531**

**Method: 300.0**  
**Preparation: N/A**

Lab Sample ID: MB 680-125531/2  
Client Matrix: Water  
Dilution: 5.0  
Date Analyzed: 12/15/2008 1448  
Date Prepared: N/A

Analysis Batch: 680-125531  
Prep Batch: N/A  
Units: mg/L

Instrument ID: ICCS200 - G  
Lab File ID: 0015.d  
Initial Weight/Volume: 1 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Chloride	<1.3	U	1.3	5.0
Fluoride	<0.25	U	0.25	1.0
Sulfate	<2.5	U	2.5	5.0

**Lab Control Spike - Batch: 680-125531**

**Method: 300.0**  
**Preparation: N/A**

Lab Sample ID: LCS 680-125531/3  
Client Matrix: Water  
Dilution: 5.0  
Date Analyzed: 12/15/2008 1500  
Date Prepared: N/A

Analysis Batch: 680-125531  
Prep Batch: N/A  
Units: mg/L

Instrument ID: ICCS200 - G  
Lab File ID: 0016.d  
Initial Weight/Volume: 1 mL  
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	50.0	49.7	99	90 - 110	
Fluoride	10.0	10.3	103	90 - 110	
Sulfate	50.0	52.4	105	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

### Method Blank - Batch: 680-125771

Method: 300.0

Preparation: N/A

Lab Sample ID: MB 680-125771/2  
Client Matrix: Water  
Dilution: 5.0  
Date Analyzed: 12/17/2008 1001  
Date Prepared: N/A

Analysis Batch: 680-125771  
Prep Batch: N/A  
Units: mg/L

Instrument ID: ICCS200 - G  
Lab File ID: 0005.d  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Chloride	<1.3	U	1.3	5.0
Fluoride	<0.25	U	0.25	1.0
Sulfate	<2.5	U	2.5	5.0

### Lab Control Spike - Batch: 680-125771

Method: 300.0

Preparation: N/A

Lab Sample ID: LCS 680-125771/3  
Client Matrix: Water  
Dilution: 5.0  
Date Analyzed: 12/17/2008 1014  
Date Prepared: N/A

Analysis Batch: 680-125771  
Prep Batch: N/A  
Units: mg/L

Instrument ID: ICCS200 - G  
Lab File ID: 0006.d  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	50.0	49.5	99	90 - 110	
Fluoride	10.0	10.1	101	90 - 110	
Sulfate	50.0	50.7	101	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-125004**

**Method: 335.4**

**Preparation: Distill/CN**

Lab Sample ID: MB 680-125004/1-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/12/2008 1037  
 Date Prepared: 12/11/2008 0700

Analysis Batch: 680-125187  
 Prep Batch: 680-125004  
 Units: mg/L

Instrument ID: No Equipment Assigned  
 Lab File ID: N/A  
 Initial Weight/Volume: 50 mL  
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Cyanide, Total	<0.0050	U	0.0050	0.010

**Lab Control Spike/**

**Lab Control Spike Duplicate Recovery Report - Batch: 680-125004**

**Method: 335.4**

**Preparation: Distill/CN**

LCS Lab Sample ID: LCS 680-125004/2-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/12/2008 1037  
 Date Prepared: 12/11/2008 0700

Analysis Batch: 680-125187  
 Prep Batch: 680-125004  
 Units: mg/L

Instrument ID: No Equipment Assigned  
 Lab File ID: N/A  
 Initial Weight/Volume: 50 mL  
 Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 680-125004/3-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/12/2008 1037  
 Date Prepared: 12/11/2008 0700

Analysis Batch: 680-125187  
 Prep Batch: 680-125004  
 Units: mg/L

Instrument ID: No Equipment Assigned  
 Lab File ID: N/A  
 Initial Weight/Volume: 50 mL  
 Final Weight/Volume: 50 mL

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Cyanide, Total	98	93	90 - 110	5	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

### Method Blank - Batch: 680-124863

Lab Sample ID: MB 680-124863/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/09/2008 1628  
Date Prepared: N/A

Analysis Batch: 680-124863  
Prep Batch: N/A  
Units: mg/L

### Method: 353.2 Preparation: N/A

Instrument ID: KoneLab2  
Lab File ID: N/A  
Initial Weight/Volume: 2 mL  
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	RL
Nitrite as N	<0.010	U	0.010	0.050

### Lab Control Spike - Batch: 680-124863

Lab Sample ID: LCS 680-124863/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/09/2008 1628  
Date Prepared: N/A

Analysis Batch: 680-124863  
Prep Batch: N/A  
Units: mg/L

### Method: 353.2 Preparation: N/A

Instrument ID: KoneLab2  
Lab File ID: N/A  
Initial Weight/Volume: 2 mL  
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N	1.00	1.02	102	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

### Method Blank - Batch: 680-124866

**Method: 353.2**  
**Preparation: N/A**

Lab Sample ID: MB 680-124866/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/09/2008 1502  
Date Prepared: N/A

Analysis Batch: 680-124866  
Prep Batch: N/A  
Units: mg/L

Instrument ID: KoneLab2  
Lab File ID: N/A  
Initial Weight/Volume: 2 mL  
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	RL
Nitrate as N	<0.025	U	0.025	0.050
Nitrate Nitrite as N	<0.025	U	0.025	0.050

### Lab Control Spike - Batch: 680-124866

**Method: 353.2**  
**Preparation: N/A**

Lab Sample ID: LCS 680-124866/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/09/2008 1502  
Date Prepared: N/A

Analysis Batch: 680-124866  
Prep Batch: N/A  
Units: mg/L

Instrument ID: KoneLab2  
Lab File ID: N/A  
Initial Weight/Volume: 2 mL  
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	1.00	1.07	107	90 - 110	
Nitrate Nitrite as N	1.00	1.07	107	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

**Quality Control Results**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-125009**

**Method: SM 2120B  
Preparation: N/A**

Lab Sample ID: MB 680-125009/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/09/2008 1400  
Date Prepared: N/A

Analysis Batch: 680-125009  
Prep Batch: N/A  
Units: PCU

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL	RL
Color	<5.0	U	5.0	5.0

Calculations are performed before rounding to avoid round-off errors in calculated results.



## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

### Method Blank - Batch: 680-125011

Method: SM 2150B

Preparation: N/A

Lab Sample ID: MB 680-125011/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/10/2008 1030  
Date Prepared: N/A

Analysis Batch: 680-125011  
Prep Batch: N/A  
Units: T.O.N.

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Odor	<1.0	U	1.0	1.0

### Duplicate - Batch: 680-125011

Method: SM 2150B

Preparation: N/A

Lab Sample ID: 680-42932-2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/10/2008 1030  
Date Prepared: N/A

Analysis Batch: 680-125011  
Prep Batch: N/A  
Units: T.O.N.

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Odor	<1.0 U	<1.0	NC		U

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-125879**

**Method: SM 2510B**  
**Preparation: N/A**

Lab Sample ID: MB 680-125879/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/18/2008 1500  
Date Prepared: N/A

Analysis Batch: 680-125879  
Prep Batch: N/A  
Units: umhos/cm

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Specific Conductance	<5.0	U	5.0	5.0

**Lab Control Spike - Batch: 680-125879**

**Method: SM 2510B**  
**Preparation: N/A**

Lab Sample ID: LCS 680-125879/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/18/2008 1500  
Date Prepared: N/A

Analysis Batch: 680-125879  
Prep Batch: N/A  
Units: umhos/cm

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Specific Conductance	1000	1000	100	90 - 110	

**Duplicate - Batch: 680-125879**

**Method: SM 2510B**  
**Preparation: N/A**

Lab Sample ID: 680-42932-2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/18/2008 1500  
Date Prepared: N/A

Analysis Batch: 680-125879  
Prep Batch: N/A  
Units: umhos/cm

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Specific Conductance	379	377	1	10	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-126086**

**Method: SM 2510B**  
**Preparation: N/A**

Lab Sample ID: MB 680-126086/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/19/2008 1724  
Date Prepared: N/A

Analysis Batch: 680-126086  
Prep Batch: N/A  
Units: umhos/cm

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Specific Conductance	<5.0	U	5.0	5.0

**Lab Control Spike - Batch: 680-126086**

**Method: SM 2510B**  
**Preparation: N/A**

Lab Sample ID: LCS 680-126086/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/19/2008 1724  
Date Prepared: N/A

Analysis Batch: 680-126086  
Prep Batch: N/A  
Units: umhos/cm

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Specific Conductance	1000	999	100	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

### Method Blank - Batch: 680-125075

Method: SM 2540C

Preparation: N/A

Lab Sample ID: MB 680-125075/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/11/2008 1248  
Date Prepared: N/A

Analysis Batch: 680-125075  
Prep Batch: N/A  
Units: mg/L

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 100 mL  
Final Weight/Volume: 100 mL

Analyte	Result	Qual	RL	RL
Total Dissolved Solids	<5.0	U	5.0	5.0

### Lab Control Spike - Batch: 680-125075

Method: SM 2540C

Preparation: N/A

Lab Sample ID: LCS 680-125075/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/11/2008 1249  
Date Prepared: N/A

Analysis Batch: 680-125075  
Prep Batch: N/A  
Units: mg/L

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 100 mL  
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Dissolved Solids	218	206	94	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-124890**

**Method: SM 5540C**  
**Preparation: N/A**

Lab Sample ID: MB 680-124890/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/10/2008 0755  
Date Prepared: N/A

Analysis Batch: 680-124890  
Prep Batch: N/A  
Units: mg/l LAS MW 340

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 100 mL  
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	RL
Methylene Blue Active Substances	<0.10	U	0.10	0.20

**Lab Control Spike/  
Lab Control Spike Duplicate Recovery Report - Batch: 680-124890**

**Method: SM 5540C**  
**Preparation: N/A**

LCS Lab Sample ID: LCS 680-124890/4  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/10/2008 0755  
Date Prepared: N/A

Analysis Batch: 680-124890  
Prep Batch: N/A  
Units: mg/l LAS MW 340

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 100 mL  
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 680-124890/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/10/2008 0755  
Date Prepared: N/A

Analysis Batch: 680-124890  
Prep Batch: N/A  
Units: mg/l LAS MW 340

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 100 mL  
Final Weight/Volume: 100 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methylene Blue Active Substances	84	96	70 - 130	13	15		

Calculations are performed before rounding to avoid round-off errors in calculated results.

**Quality Control Results**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-126224**

Lab Sample ID: MB 680-126224/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/18/2008 1634  
Date Prepared: N/A

Analysis Batch: 680-126224  
Prep Batch: N/A  
Units: CFU/100mL

**Method: SM 9222B  
Preparation: N/A**

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 100 mL  
Final Weight/Volume: 100 mL  
Injection Volume:

Analyte	Result	Qual	RL	RL
Coliform, Total	<1.0	U	1.0	1.0
Total Coliform Count	<1.0	U	1.0	1.0
Non-Coliform Growth	<1.0	U	1.0	1.0

Calculations are performed before rounding to avoid round-off errors in calculated results.



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD



THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

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Phone: (912) 354-7858  
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location

Phone:  
Fax:

PROJECT REFERENCE <b>SWAMP INJECTION PERMIT</b>		PROJECT NO.	PROJECT LOCATION (STATE)	MATRIX TYPE	REQUIRED ANALYSIS										PAGE <b>2</b>	OF <b>2</b>			
TAL (LAB) PROJECT MANAGER		P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)														STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____
CLIENT (SITE) PM		CLIENT PHONE	CLIENT FAX															EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____
CLIENT NAME <b>OKEECHOBEE LANDFILL</b>		CLIENT E-MAIL																NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	
CLIENT ADDRESS		COMPANY CONTRACTING THIS WORK (if applicable)																	
SAMPLE		SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS SUBMITTED										REMARKS					
DATE	TIME																		
<b>12/8/08</b>	<b>0900</b>	<b>LTMO+</b>		✓															
<b>12/8/08</b>	<b>1100</b>	<b>PONDID</b>		✓															
Page <b>2</b> of <b>73</b>																			
RELINQUISHED BY: (SIGNATURE) <b>Ben Ruffin</b>		DATE <b>12/8/08</b>	TIME <b>1700</b>	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME				
RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME				

RECEIVED FOR LABORATORY BY: (SIGNATURE) <b>[Signature]</b>		DATE <b>12/09/08</b>	TIME <b>0902</b>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <b>68042932</b>	LABORATORY REMARKS <b>5.2/4.4/4.2 TEMP</b>
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:  
Fax:

PROJECT REFERENCE <b>SWA INJECTION WELL PERMIT</b>	PROJECT NO.	PROJECT LOCATION (STATE)	MATRIX TYPE	REQUIRED ANALYSIS										PAGE 1	OF 1						
TAL (LAB) PROJECT MANAGER <b>ABBY PALGE</b>	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	He1 Asphalt Voa	NA Tri CALIFORNIA	PRESERVATIVE										STANDARD REPORT DELIVERY <input type="checkbox"/>	DATE DUE _____
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX																		EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="checkbox"/>	DATE DUE _____
CLIENT NAME <b>OKECHOBEE L.P.</b>	CLIENT E-MAIL		NUMBER OF COOLERS SUBMITTED PER SHIPMENT:																		
CLIENT ADDRESS <b>10800 NE 128th AVE. OKECHOBEE FL 34972</b>		COMPANY CONTRACTING THIS WORK (if applicable)																			

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	He1 Asphalt Voa	NA Tri CALIFORNIA	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED										REMARKS		
DATE	TIME																						
12-17	0820	LMT04	X					3	1														
12-17	0900	POND ID	X					3	1														
12-17	-	TRIP	X					2															

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 12-17-00	TIME 1500	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>Kh</i>	DATE 12/18/00	TIME 0909	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-4282	LABORATORY REMARKS 2.4°C
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# Ardaman & Associates, Inc.

Geotechnical, Environmental and  
Materials Consultants

November 17, 2008  
File Number 08-5592

All Webb's Enterprises, Inc.  
309 Commerce Way  
Jupiter, Florida 33458

Attention: David Webb, Jr.

Subject: Rock Core Testing, Okeechobee Landfill Deep Injection Well

Gentlemen:

As requested, vertical and horizontal permeability, unconfined compression and specific gravity tests have been completed on limestone rock cores provided for testing by your firm. The samples were received on 09/09/08. The cores were labeled by depth. The designations of the 14 samples are listed below.

Depth (feet)
2054
2112
2167
2202
2209
2211
2262
2325
2326
2390
2424
2502
2585
2592

The permeability tests were performed in general accordance with ASTM Standard D 5084 "Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter" using the constant head test method (Method A) or the constant volume; falling head - rising tailwater (Method F). The permeability test results are presented on the attached hydraulic conductivity test reports.

The unconfined compression tests were performed in general accordance with ASTM Standard D 7012 "Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures" using the unconfined test method (Method C). The unconfined compression test results are presented on the attached test reports.

The measured mineral specific gravities are presented on the attached test reports. The specific gravity tests were performed in general accordance with ASTM Standard D 854 "Specific Gravity of Soil Solids by Water Pycnometer" using 50 to 100 gram specimens ground to pass the U.S. Standard No. 40 sieve.

The specimens were reported to be from the samples designated herein. The test results are indicative of only the specimens that were actually tested. The test results presented are based upon accepted industry practice as well as test method(s) listed. Ardaman & Associates, Inc. neither accepts responsibility for, nor makes claims to the final use and purpose of the material.

Please contact us if you have any questions about the test results or require additional information.

Very truly yours,  
ARDAMAN & ASSOCIATES, INC.



Thomas S. Ingra, F.E.  
Laboratory Director  
Florida License No. 31987

cc: Dan Zrallack

# ARDAMAN & ASSOCIATES, INC. GEOTECHNICAL TESTING LABORATORY

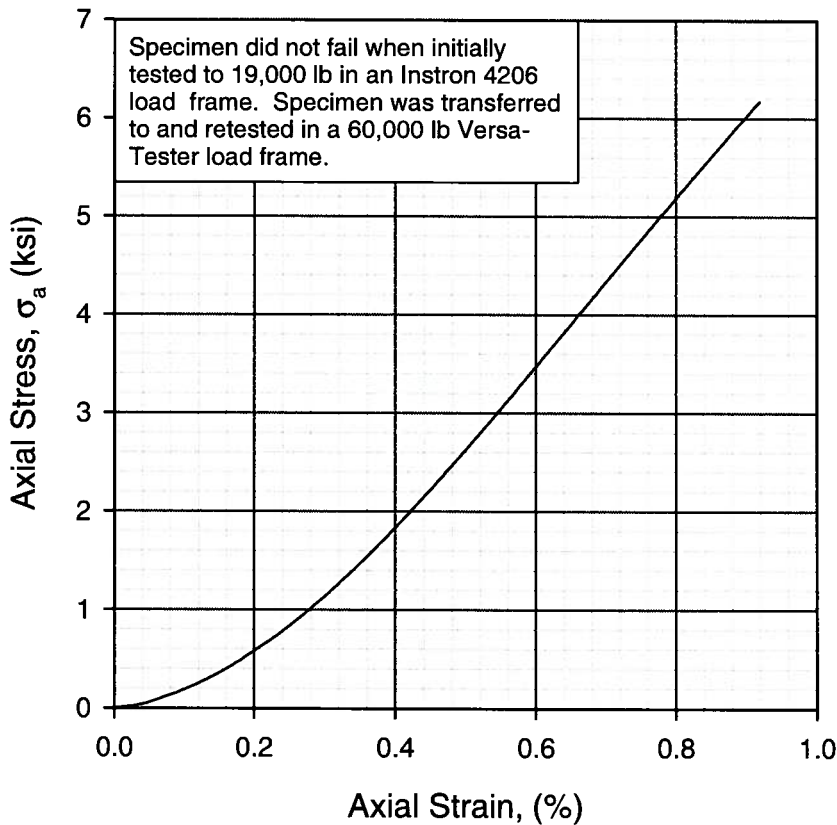
## INTACT ROCK CORE UNCONFINED COMPRESSION TEST REPORT

CLIENT: All Webb's Enterprises, Inc.  
 PROJECT: Okeechobee Landfill Deep Injection Well  
 FILE NO.: 08-5592

DATE SAMPLE RECEIVED: 09/09/08  
 DATE TEST SET-UP: 09/26/08  
 DATE REPORTED: 11/17/08

INCOMING SAMPLE NO.: 2054'  
 BORING - \_\_\_\_\_ SAMPLE - \_\_\_\_\_  
 DEPTH 2054 \_\_\_\_\_ ft;  m  
 LABORATORY IDENTIFICATION NO.: 085592/2054  
 SAMPLE DESCRIPTION: Brown dolomitic limestone

Specimen Dimensions			Initial Conditions			Rate of Loading		Time to Failure (minutes)	Unconfined Compressive Strength, $\sigma_a$ (ult) (lb/in <sup>2</sup> )	Young's Modulus, E (lb/in <sup>2</sup> )
H (cm)	D (cm)	H/D	w <sub>c</sub> (%)	$\gamma_d$ (lb/ft <sup>3</sup> )	S (%)	$\dot{\epsilon}$ (cm/minute)	$\dot{\epsilon}$ (%/minute)			
10.22	5.03	2.0	1.3	167.8	70	0.013	0.12	4.2	18,056	8.3x10 <sup>5</sup> at 30% $\sigma_a$ (ult)



<b>TEST PROCEDURES</b>
<input checked="" type="checkbox"/> ASTM Standard D 7012, Method C  Air Temperature (°C): <u>21.0</u>  Capping Material: <input type="checkbox"/> None <input checked="" type="checkbox"/> Lab-Stone <input type="checkbox"/> Sulfur  Comments: <u>Maximum load in Versa-Tester load frame was 55,611 lb. Rate of loading for Instron 4206 portion of test. Time to failure for Versa-Tester portion of test.</u>
<b>SPECIMEN PREPARATION</b>
Original Core Diameter (inch): <u>4</u>  Specimen Sub-Cored for Testing: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  G <sub>s</sub> : <u>2.83</u> <input type="checkbox"/> Assumed <input checked="" type="checkbox"/> Measured
<b>FAILURE SKETCH</b>

The test data and all associated project information presented hereon shall be held in confidence and disclosed to other parties only with the authorization of the Client or Ardaman & Associates, Inc. Physical and electronic records of each project are kept for a minimum of 7 years. Test samples are kept in storage for at least 10 working days after mailing of the test report, prior to being discarded, unless a longer storage period is requested in writing and accepted by Ardaman & Associates, Inc.

Where: H = Specimen height; D = Specimen diameter; w<sub>c</sub> = Moisture content (ASTM D 2216);  $\gamma_d$  = Dry density; S = Saturation;  $\dot{\epsilon}$  = Vertical displacement rate; and G<sub>s</sub> = Specific gravity.

Checked By: TM Date: 11/17/08

# ARDAMAN & ASSOCIATES, INC. GEOTECHNICAL TESTING LABORATORY

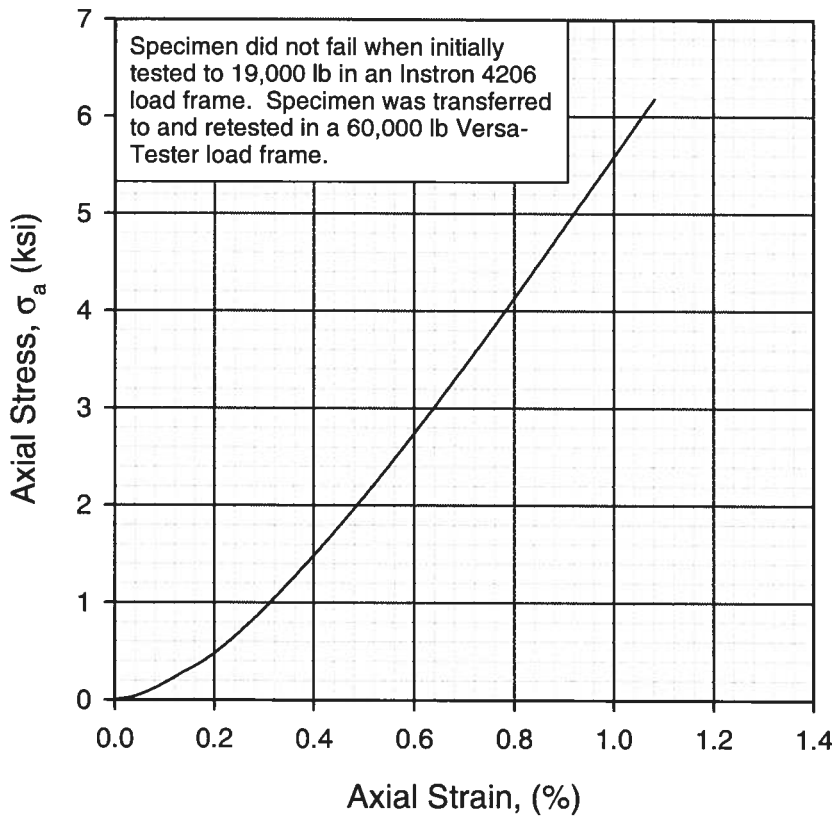
## INTACT ROCK CORE UNCONFINED COMPRESSION TEST REPORT

CLIENT: All Webb's Enterprises, Inc.  
 PROJECT: Okeechobee Landfill Deep Injection Well  
 FILE NO.: 08-5592

DATE SAMPLE RECEIVED: 09/09/08  
 DATE TEST SET-UP: 10/17/08  
 DATE REPORTED: 11/17/08

INCOMING SAMPLE NO.: 2167'  
 BORING - \_\_\_\_\_ SAMPLE - \_\_\_\_\_  
 DEPTH 2167 \_\_\_\_\_  ft;  m  
 LABORATORY IDENTIFICATION NO.: 085592/2167  
 SAMPLE DESCRIPTION: Brown dolomitic limestone

Specimen Dimensions			Initial Conditions			Rate of Loading		Time to Failure (minutes)	Unconfined Compressive Strength, $\sigma_a$ (ult) (lb/in <sup>2</sup> )	Young's Modulus, E (lb/in <sup>2</sup> )
H (cm)	D (cm)	H/D	w <sub>c</sub> (%)	Y <sub>d</sub> (lb/ft <sup>3</sup> )	S (%)	$\dot{\epsilon}$ (cm/minute)	$\dot{\epsilon}$ (%/minute)			
10.08	5.03	2.0	1.2	152.7	21	0.013	0.13	2.1	6,361	7.0x10 <sup>5</sup> at 50% $\sigma_a$ (ult)



<b>TEST PROCEDURES</b>
<input checked="" type="checkbox"/> ASTM Standard D 7012, Method C Air Temperature (°C): <u>21.0</u> Capping Material: <input type="checkbox"/> None <input checked="" type="checkbox"/> Lab-Stone <input type="checkbox"/> Sulfur Comments: <u>Maximum load in Versa-Tester load frame was 19,584 lb. Rate of loading for Instron 4206 portion of test. Time to failure for Versa-Tester portion of test.</u>
<b>SPECIMEN PREPARATION</b>
Original Core Diameter (inch): <u>4</u> Specimen Sub-Cored for Testing: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No G <sub>s</sub> : <u>2.86</u> <input type="checkbox"/> Assumed <input checked="" type="checkbox"/> Measured
<b>FAILURE SKETCH</b>

The test data and all associated project information presented hereon shall be held in confidence and disclosed to other parties only with the authorization of the Client or Ardaman & Associates, Inc. Physical and electronic records of each project are kept for a minimum of 7 years. Test samples are kept in storage for at least 10 working days after mailing of the test report, prior to being discarded, unless a longer storage period is requested in writing and accepted by Ardaman & Associates, Inc.

Where: H = Specimen height; D = Specimen diameter; w<sub>c</sub> = Moisture content (ASTM D 2216); Y<sub>d</sub> = Dry density; S = Saturation;  $\dot{\epsilon}$  = Vertical displacement rate; and G<sub>s</sub> = Specific gravity.

Checked By: M Date: 11/17/08

# ARDAMAN & ASSOCIATES, INC. GEOTECHNICAL TESTING LABORATORY

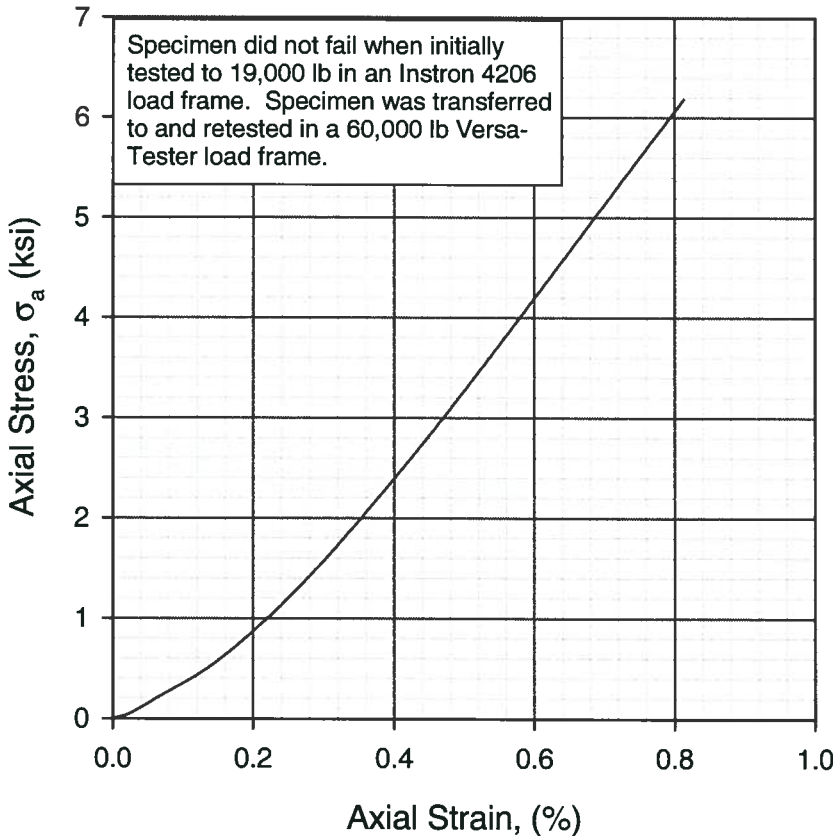
## INTACT ROCK CORE UNCONFINED COMPRESSION TEST REPORT

CLIENT: All Webb's Enterprises, Inc.  
 PROJECT: Okeechobee Landfill Deep Injection Well  
 FILE NO.: 08-5592

DATE SAMPLE RECEIVED: 09/09/08  
 DATE TEST SET-UP: 10/17/08  
 DATE REPORTED: 11/17/08

INCOMING SAMPLE NO.: 2209'  
 BORING - \_\_\_\_\_ SAMPLE - \_\_\_\_\_  
 DEPTH 2209 \_\_\_\_\_  ft;  m  
 LABORATORY IDENTIFICATION NO.: 085592/2209  
 SAMPLE DESCRIPTION: Brown dolomitic limestone

Specimen Dimensions			Initial Conditions			Rate of Loading		Time to Failure (minutes)	Unconfined Compressive Strength, $\sigma_a$ (ult) (lb/in <sup>2</sup> )	Young's Modulus, E (lb/in <sup>2</sup> )
H (cm)	D (cm)	H/D	w <sub>c</sub> (%)	$\gamma_d$ (lb/ft <sup>3</sup> )	S (%)	$\dot{\epsilon}$ (cm/minute)	$\dot{\epsilon}$ (%/minute)			
10.98	5.03	2.2	1.1	158.1	25	0.013	0.12	3.0	8,874	9.3x10 <sup>5</sup> at 50% $\sigma_a$ (ult)



**TEST PROCEDURES**

ASTM Standard D 7012, Method C

Air Temperature (°C): 21.0

Capping Material:  None  
 Lab-Stone  
 Sulfur

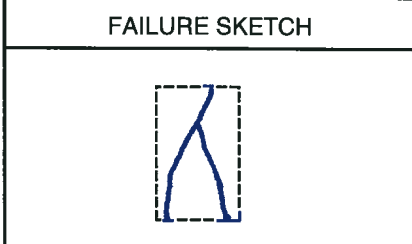
Comments: Maximum load in Versa-Tester load frame was 27,278 lb. Rate of loading for Instron 4206 portion of test. Time to failure for Versa-Tester portion of test.

**SPECIMEN PREPARATION**

Original Core Diameter (inch): 4

Specimen Sub-Cored for Testing:  
 Yes  
 No

G<sub>s</sub>: 2.84  Assumed  
 Measured



The test data and all associated project information presented hereon shall be held in confidence and disclosed to other parties only with the authorization of the Client or Ardaman & Associates, Inc. Physical and electronic records of each project are kept for a minimum of 7 years. Test samples are kept in storage for at least 10 working days after mailing of the test report, prior to being discarded, unless a longer storage period is requested in writing and accepted by Ardaman & Associates, Inc.

Where: H = Specimen height; D = Specimen diameter; w<sub>c</sub> = Moisture content (ASTM D 2216);  $\gamma_d$  = Dry density; S = Saturation;  $\dot{\epsilon}$  = Vertical displacement rate; and G<sub>s</sub> = Specific gravity.

Checked By: TM Date: 11/17/08

# ARDAMAN & ASSOCIATES, INC. GEOTECHNICAL TESTING LABORATORY

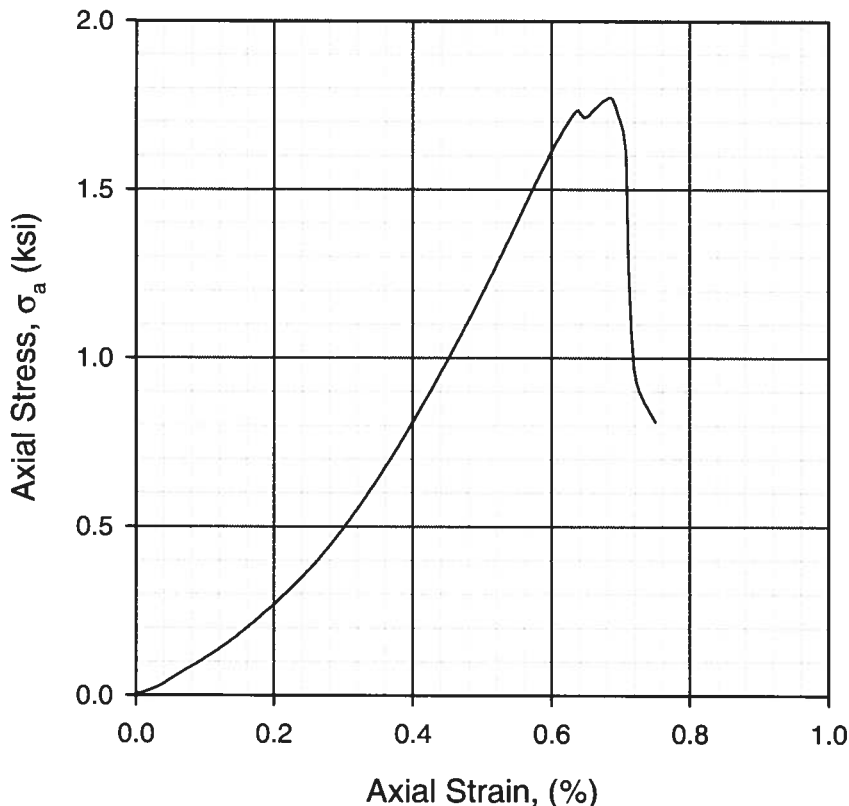
## INTACT ROCK CORE UNCONFINED COMPRESSION TEST REPORT

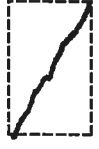
CLIENT: All Webb's Enterprises, Inc.  
 PROJECT: Okeechobee Landfill Deep Injection Well  
 FILE NO.: 08-5592

DATE SAMPLE RECEIVED: 09/09/08  
 DATE TEST SET-UP: 10/17/08  
 DATE REPORTED: 11/17/08

INCOMING SAMPLE NO.: 2262'  
 BORING - \_\_\_\_\_ SAMPLE - \_\_\_\_\_  
 DEPTH 2262 \_\_\_\_\_  ft;  m  
 LABORATORY IDENTIFICATION NO.: 085592/2262  
 SAMPLE DESCRIPTION: Light brown limestone

Specimen Dimensions			Initial Conditions			Rate of Loading		Time to Failure (minutes)	Unconfined Compressive Strength, $\sigma_a$ (ult) (lb/in <sup>2</sup> )	Young's Modulus, E (lb/in <sup>2</sup> )
H (cm)	D (cm)	H/D	w <sub>c</sub> (%)	$\gamma_d$ (lb/ft <sup>3</sup> )	S (%)	$\dot{\epsilon}$ (cm/minute)	$\dot{\epsilon}$ (%/minute)			
10.94	5.02	2.2	6.4	120.7	43	0.013	0.12	5.8	1,773	3.7x10 <sup>5</sup> at 50% $\sigma_a$ (ult)



<b>TEST PROCEDURES</b>
<input checked="" type="checkbox"/> ASTM Standard D 7012, Method C
Air Temperature (°C): <u>21.0</u>
Capping Material: <input type="checkbox"/> None <input checked="" type="checkbox"/> Lab-Stone <input type="checkbox"/> Sulfur
Comments: <u>Tested on Instron 4206 with 20,000 lb load cell</u>
<b>SPECIMEN PREPARATION</b>
Original Core Diameter (inch): <u>4</u>
Specimen Sub-Cored for Testing: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
G <sub>s</sub> : <u>2.72</u> <input type="checkbox"/> Assumed <input checked="" type="checkbox"/> Measured
<b>FAILURE SKETCH</b>


The test data and all associated project information presented hereon shall be held in confidence and disclosed to other parties only with the authorization of the Client or Ardaman & Associates, Inc. Physical and electronic records of each project are kept for a minimum of 7 years. Test samples are kept in storage for at least 10 working days after mailing of the test report, prior to being discarded, unless a longer storage period is requested in writing and accepted by Ardaman & Associates, Inc.

Where: H = Specimen height; D = Specimen diameter; w<sub>c</sub> = Moisture content (ASTM D 2216);  $\gamma_d$  = Dry density; S = Saturation;  $\dot{\epsilon}$  = Vertical displacement rate; and G<sub>s</sub> = Specific gravity.

Checked By: TW Date: 11/17/08



# ARDAMAN & ASSOCIATES, INC. GEOTECHNICAL TESTING LABORATORY

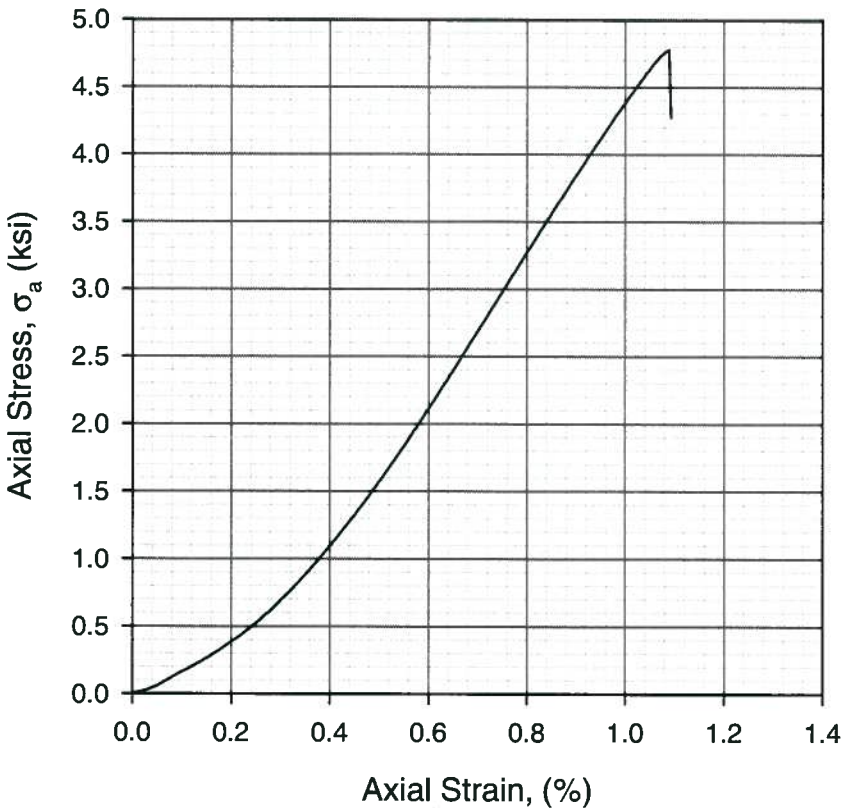
## INTACT ROCK CORE UNCONFINED COMPRESSION TEST REPORT

CLIENT: All Webb's Enterprises, Inc.  
 PROJECT: Okeechobee Landfill Deep Injection Well  
 FILE NO.: 08-5592

DATE SAMPLE RECEIVED: 09/09/08  
 DATE TEST SET-UP: 09/26/08  
 DATE REPORTED: 11/17/08

INCOMING SAMPLE NO.: 2325'  
 BORING - \_\_\_\_\_ SAMPLE - \_\_\_\_\_  
 DEPTH 2325 \_\_\_\_\_ ft; □ m  
 LABORATORY IDENTIFICATION NO.: 085592/2325  
 SAMPLE DESCRIPTION: Light brown limestone

Specimen Dimensions			Initial Conditions			Rate of Loading		Time to Failure (minutes)	Unconfined Compressive Strength, $\sigma_a$ (ult) (lb/in <sup>2</sup> )	Young's Modulus, E (lb/in <sup>2</sup> )
H (cm)	D (cm)	H/D	w <sub>c</sub> (%)	$\gamma_d$ (lb/ft <sup>3</sup> )	S (%)	$\dot{\epsilon}$ (cm/minute)	$\dot{\epsilon}$ (%/minute)			
10.45	5.02	2.1	5.6	124.5	42	0.013	0.12	9.1	4,776	5.8x10 <sup>5</sup> at 50% $\sigma_a$ (ult)



**TEST PROCEDURES**

ASTM Standard D 7012, Method C

Air Temperature (°C): 21.0

Capping Material:  None  
 Lab-Stone  
 Sulfur

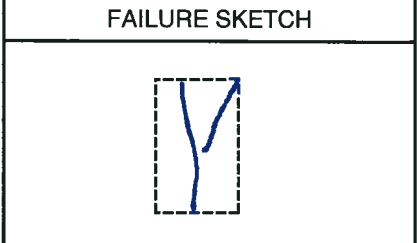
Comments: Tested on Instron 4206 with 20,000 lb load cell

**SPECIMEN PREPARATION**

Original Core Diameter (inch): 4

Specimen Sub-Cored for Testing:  
 Yes  
 No

G<sub>s</sub>: 2.70  Assumed  
 Measured



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Where: H = Specimen height; D = Specimen diameter; w<sub>c</sub> = Moisture content (ASTM D 2216);  $\gamma_d$  = Dry density; S = Saturation;  $\dot{\epsilon}$  = Vertical displacement rate; and G<sub>s</sub> = Specific gravity.

Checked By: TM Date: 11/17/08

# ARDAMAN & ASSOCIATES, INC. GEOTECHNICAL TESTING LABORATORY

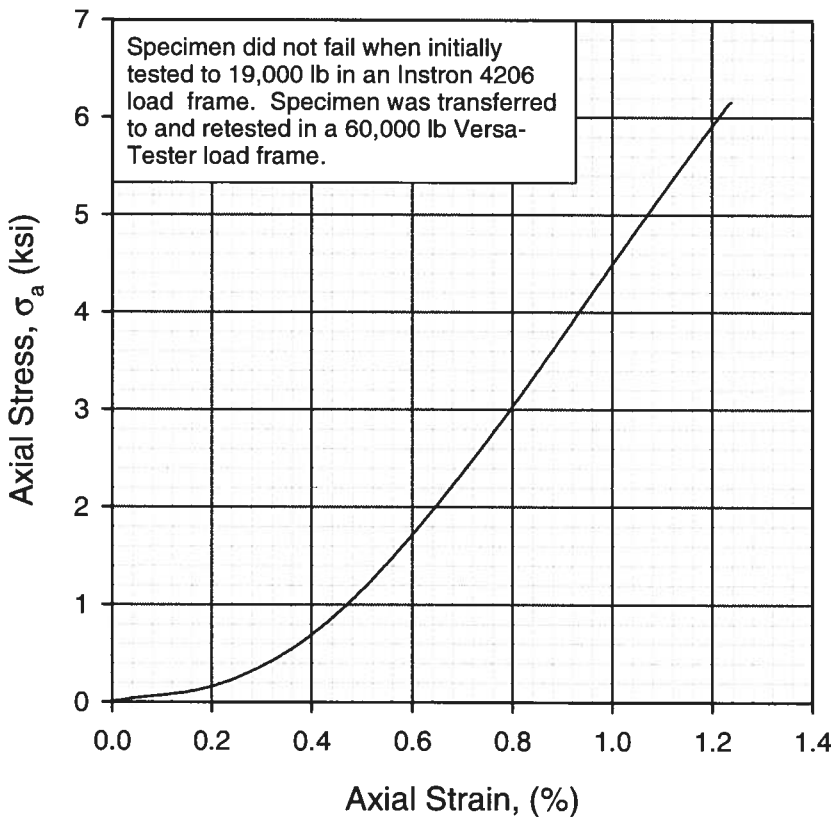
## INTACT ROCK CORE UNCONFINED COMPRESSION TEST REPORT

CLIENT: All Webb's Enterprises, Inc.  
 PROJECT: Okeechobee Landfill Deep Injection Well  
 FILE NO.: 08-5592

DATE SAMPLE RECEIVED: 09/09/08  
 DATE TEST SET-UP: 09/26/08  
 DATE REPORTED: 11/17/08

INCOMING SAMPLE NO.: 2424'  
 BORING - \_\_\_\_\_ SAMPLE - \_\_\_\_\_  
 DEPTH 2424 \_\_\_\_\_ ft; □ m  
 LABORATORY IDENTIFICATION NO.: 085592/2424  
 SAMPLE DESCRIPTION: Light brown limestone

Specimen Dimensions			Initial Conditions			Rate of Loading		Time to Failure (minutes)	Unconfined Compressive Strength, $\sigma_a$ (ult) (lb/in <sup>2</sup> )	Young's Modulus, E (lb/in <sup>2</sup> )
H (cm)	D (cm)	H/D	w <sub>c</sub> (%)	$\gamma_d$ (lb/ft <sup>3</sup> )	S (%)	$\dot{\epsilon}$ (cm/minute)	$\dot{\epsilon}$ (%/minute)			
10.77	5.04	2.1	1.3	159.3	58	0.013	0.12	2.2	8,007	7.3x10 <sup>5</sup> at 50% $\sigma_a$ (ult)



**TEST PROCEDURES**

ASTM Standard D 7012, Method C

Air Temperature (°C): 21.0

Capping Material:  None  
 Lab-Stone  
 Sulfur

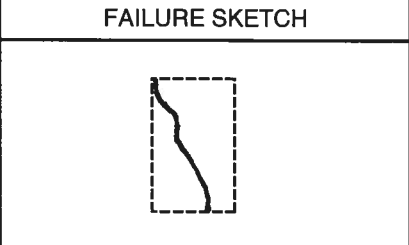
Comments: Maximum load in Versa-Tester load frame was 24,717 lb. Rate of loading for Instron 4206 portion of test. Time to failure for Versa-Tester portion of test.

**SPECIMEN PREPARATION**

Original Core Diameter (inch): 4

Specimen Sub-Cored for Testing:  
 Yes  
 No

G<sub>s</sub>: 2.71  Assumed  
 Measured



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Where: H = Specimen height; D = Specimen diameter; w<sub>c</sub> = Moisture content (ASTM D 2216);  $\gamma_d$  = Dry density; S = Saturation;  $\dot{\epsilon}$  = Vertical displacement rate; and G<sub>s</sub> = Specific gravity.

Checked By: TM Date: 11/17/08

# ARDAMAN & ASSOCIATES, INC. GEOTECHNICAL TESTING LABORATORY

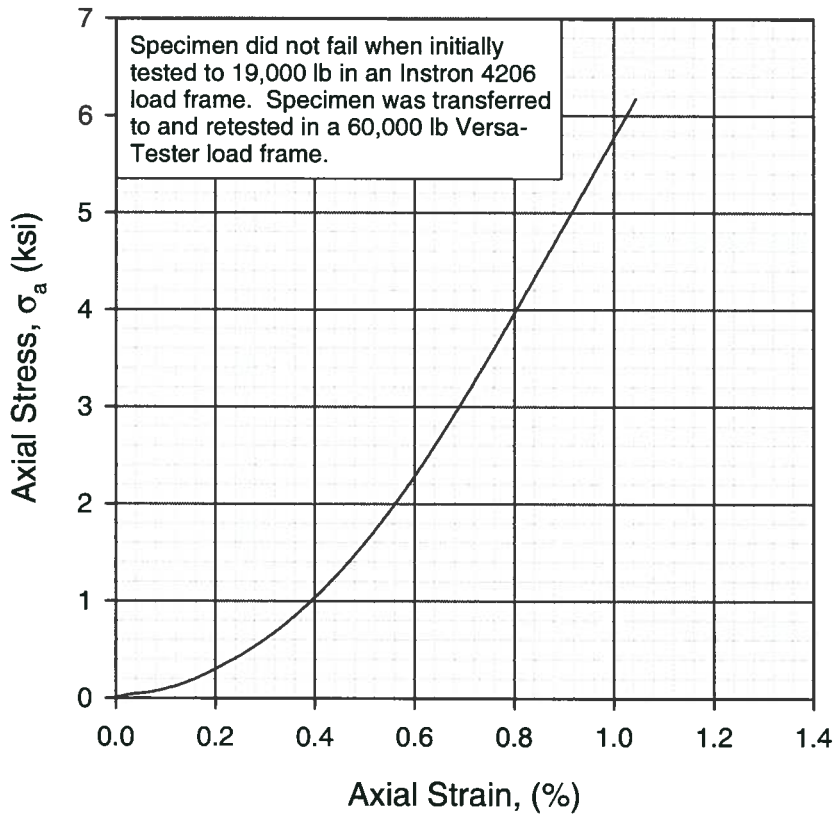
## INTACT ROCK CORE UNCONFINED COMPRESSION TEST REPORT

CLIENT: All Webb's Enterprises, Inc.  
 PROJECT: Okeechobee Landfill Deep Injection Well  
 FILE NO.: 08-5592

INCOMING SAMPLE NO.: 2585'  
 BORING - \_\_\_\_\_ SAMPLE - \_\_\_\_\_  
 DEPTH 2585  ft;  m  
 LABORATORY IDENTIFICATION NO.: 085592/2585  
 SAMPLE DESCRIPTION: Light brown limestone

DATE SAMPLE RECEIVED: 09/09/08  
 DATE TEST SET-UP: 10/17/08  
 DATE REPORTED: 11/17/08

Specimen Dimensions			Initial Conditions			Rate of Loading		Time to Failure (minutes)	Unconfined Compressive Strength, $\sigma_a$ (ult) (lb/in <sup>2</sup> )	Young's Modulus, E (lb/in <sup>2</sup> )
H (cm)	D (cm)	H/D	w <sub>c</sub> (%)	$\gamma_d$ (lb/ft <sup>3</sup> )	S (%)	$\dot{\epsilon}$ (cm/minute)	$\dot{\epsilon}$ (%/minute)			
10.62	5.03	2.1	1.0	161.2	44	0.013	0.12	3.7	8,842	9.0x10 <sup>5</sup> at 50% $\sigma_a$ (ult)



### TEST PROCEDURES

ASTM Standard D 7012, Method C

Air Temperature (°C): 21.0

Capping Material:  None  
 Lab-Stone  
 Sulfur

Comments: Maximum load in Versa-Tester load frame was 27,216 lb. Rate of loading for Instron 4206 portion of test. Time to failure for Versa-Tester portion of test.

### SPECIMEN PREPARATION

Original Core Diameter (inch): 4

Specimen Sub-Cored for Testing:  
 Yes  
 No

G<sub>s</sub>: 2.74  Assumed  
 Measured

### FAILURE SKETCH



The test data and all associated project information presented hereon shall be held in confidence and disclosed to other parties only with the authorization of the Client or Ardaman & Associates, Inc. Physical and electronic records of each project are kept for a minimum of 7 years. Test samples are kept in storage for at least 10 working days after mailing of the test report, prior to being discarded, unless a longer storage period is requested in writing and accepted by Ardaman & Associates, Inc.

Where: H = Specimen height; D = Specimen diameter; w<sub>c</sub> = Moisture content (ASTM D 2216);  $\gamma_d$  = Dry density; S = Saturation;  $\dot{\epsilon}$  = Vertical displacement rate; and G<sub>s</sub> = Specific gravity.

Checked By: TM Date: 11/17/08

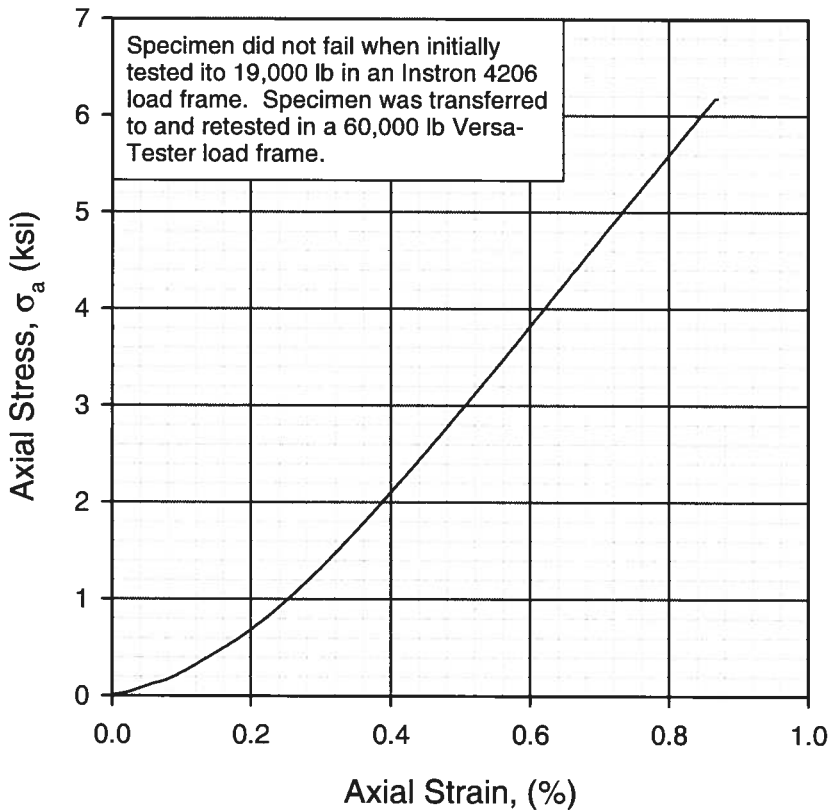
# ARDAMAN & ASSOCIATES, INC. GEOTECHNICAL TESTING LABORATORY INTACT ROCK CORE UNCONFINED COMPRESSION TEST REPORT

CLIENT: All Webb's Enterprises, Inc.  
 PROJECT: Okeechobee Landfill Deep Injection Well  
 FILE NO.: 08-5592

INCOMING SAMPLE NO.: 2592'  
 BORING - \_\_\_\_\_ SAMPLE - \_\_\_\_\_  
 DEPTH 2592 \_\_\_\_\_  ft;  m  
 LABORATORY IDENTIFICATION NO.: 085592/2592  
 SAMPLE DESCRIPTION: Brown dolomitic limestone

DATE SAMPLE RECEIVED: 09/09/08  
 DATE TEST SET-UP: 10/17/08  
 DATE REPORTED: 11/17/08

Specimen Dimensions			Initial Conditions			Rate of Loading		Time to Failure (minutes)	Unconfined Compressive Strength, $\sigma_a$ (ult) (lb/in <sup>2</sup> )	Young's Modulus, E (lb/in <sup>2</sup> )
H (cm)	D (cm)	H/D	w <sub>c</sub> (%)	$\gamma_d$ (lb/ft <sup>3</sup> )	S (%)	$\dot{\epsilon}$ (cm/minute)	$\dot{\epsilon}$ (%/minute)			
10.46	5.03	2.1	0.8	167.3	62	0.013	0.12	3.3	9,881	8.9x10 <sup>5</sup> at 50% $\sigma_a$ (ult)



### TEST PROCEDURES

ASTM Standard D 7012, Method C

Air Temperature (°C): 21.0

Capping Material:  None  
 Lab-Stone  
 Sulfur

Comments: Maximum load in Versa-Tester load frame was 30,384 lb. Rate of loading for Instron 4206 portion of test. Time to failure for Versa-Tester portion of test.

### SPECIMEN PREPARATION

Original Core Diameter (inch): 4

Specimen Sub-Cored for Testing:  
 Yes  
 No

G<sub>s</sub>: 2.78  Assumed  
 Measured

### FAILURE SKETCH



The test data and all associated project information presented hereon shall be held in confidence and disclosed to other parties only with the authorization of the Client or Ardaman & Associates, Inc. Physical and electronic records of each project are kept for a minimum of 7 years. Test samples are kept in storage for at least 10 working days after mailing of the test report, prior to being discarded, unless a longer storage period is requested in writing and accepted by Ardaman & Associates, Inc.

Where: H = Specimen height; D = Specimen diameter; w<sub>c</sub> = Moisture content (ASTM D 2216);  $\gamma_d$  = Dry density; S = Saturation;  $\dot{\epsilon}$  = Vertical displacement rate; and G<sub>s</sub> = Specific gravity.

Checked By: TM Date: 11/17/08





























# ARDAMAN & ASSOCIATES, INC. GEOTECHNICAL TESTING LABORATORY

## ROCK CORE HYDRAULIC CONDUCTIVITY TEST REPORT

CLIENT: All Webb's Enterprises, Inc. INCOMING LABORATORY SAMPLE NO.: 2326'  
 PROJECT: Okeechobee Landfill Deep Injection Well LABORATORY IDENTIFICATION NO.: 085592-2326H  
 FILE NO.: 08-5592 SAMPLE DESCRIPTION: Light brown limestone  
 DATE SAMPLE RECEIVED: 09/09/08 SET UP: 10/03/08  
 DATE REPORTED: 11/17/08

ASTM D 5084 TEST METHOD:  
 A - Constant Head  
 B - Falling Head; Constant Tailwater  
 C - Falling Head; Rising Tailwater  
 F - Constant Volume; Falling Head - Rising Tailwater

B-FACTOR: 97 %  Beginning of Test;  
 End of Test  
 $\Delta\sigma_c$  (psi): 17

SPECIMEN DATA:  
 As-Received Diameter (inch): 4 Diameter Trimmed:  Yes  No  
 As-Received Length (inch): 4.9/4.3\* Length Trimmed:  Yes  No

TEST SPECIMEN ORIENTATION:  Vertical  Horizontal

SPECIFIC GRAVITY,  $G_s$ : 2.70  Assumed  
 Measured (ASTM D 854)

PERMEANT:  Deaired Tap Water  Other \_\_\_\_\_

Initial Conditions							Test Conditions					Final Conditions			Hydraulic Conductivity $k_{20}$ (cm/sec)
H (cm)	D (cm)	V (cm <sup>3</sup> )	w <sub>c</sub> (%)	$\gamma_d$ (pcf)	n	S (%)	$\bar{\sigma}_c$ (psi)	$u_b$ (psi)	$i_{avg}$	Q (cm <sup>3</sup> )	t (days)	WDS (g)	w <sub>c</sub> (%)	S (%)	
7.00	5.02	138.62	8.5	137.1	0.186	100	30	160	32	4.7	6	304.67	8.5	100	<b>7.1 x 10<sup>-8</sup></b>

COMMENTS: (1) Horizontal permeability test specimen was cross-cored from the corresponding vertical test specimen.  
 \* First length is total sample length. Second length is useable length at full core diameter.

The test data and all associated project information presented hereon shall be held in confidence and disclosed to other parties only with the authorization of the Client or Ardaman & Associates, Inc. Physical and electronic records of each project are kept for a minimum of 7 years. Test samples are kept in storage for at least 10 working days after mailing of the test report, prior to being discarded, unless a longer storage period is requested in writing and accepted by Ardaman & Associates, Inc.

Where: H = Specimen height; D = Specimen diameter; V = Volume; WDS = Dry mass; w<sub>c</sub> = Moisture content (ASTM D 2216);  $\gamma_d$  = Dry density; S = Saturation;  $\bar{\sigma}_c$  = Isotropic effective confining stress;  $u_b$  = Back-pressure;  $i_{avg}$  = Average hydraulic gradient; Q = Flow volume; t = Test duration;  $k_{20}$  = Saturated hydraulic conductivity at 20°C; n = Total porosity; and  $G_s$  = Specific gravity.

Checked By:  Date: 11/17/08





## ARDAMAN & ASSOCIATES, INC. GEOTECHNICAL TESTING LABORATORY ROCK CORE HYDRAULIC CONDUCTIVITY TEST REPORT

CLIENT: All Webb's Enterprises, Inc.  
 PROJECT: Okeechobee Landfill Deep Injection Well  
 FILE NO.: 08-5592  
 DATE SAMPLE RECEIVED: 09/09/08 SET UP: 09/20/08  
 DATE REPORTED: 11/17/08

INCOMING LABORATORY SAMPLE NO.: 2424'  
 LABORATORY IDENTIFICATION NO.: 085592-2424V  
 SAMPLE DESCRIPTION: Light brown limestone

ASTM D 5084 TEST METHOD:  
 A - Constant Head  
 B - Falling Head; Constant Tailwater  
 C - Falling Head; Rising Tailwater  
 F - Constant Volume; Falling Head - Rising Tailwater

B-FACTOR: 87 (stable) %  Beginning of Test;  
 End of Test

$\Delta\sigma_c$  (psi): 10, 21, 27, 33

SPECIMEN DATA:  
 As-Received Diameter (inch): 4 Diameter Trimmed:  Yes  No  
 As-Received Length (inch): 10.0/7.4\* Length Trimmed:  Yes  No

TEST SPECIMEN ORIENTATION:  Vertical  Horizontal

SPECIFIC GRAVITY,  $G_s$ : 2.71  Assumed  
 Measured (ASTM D 854)

PERMEANT:  Deaired Tap Water  Other \_\_\_\_\_

Initial Conditions							Test Conditions					Final Conditions			Hydraulic Conductivity $k_{20}$ (cm/sec)
H (cm)	D (cm)	V (cm <sup>3</sup> )	w <sub>c</sub> (%)	$\gamma_d$ (pcf)	n	S (%)	$\bar{\sigma}_c$ (psi)	$u_b$ (psi)	$i_{avg}$	Q (cm <sup>3</sup> )	t (days)	WDS (g)	w <sub>c</sub> (%)	S (%)	
8.98	9.06	578.53	2.3	157.3	0.070	85	30	160	77	0.51	4	1458.7	2.3	85	<b>6.9 x 10-10</b>

COMMENTS: (1) Core sample selected for permeability testing was cut to length, air-dried, deaired under vacuum for a minimum of 24 hours, and then saturated with deaired tap water from the bottom up while still under vacuum. (2) Final w<sub>c</sub> from horizontal permeability test specimen. WDS calculated from measured wet weight and final w<sub>c</sub>.  
 \* First length is total sample length. Second length is useable length at full core diameter.

The test data and all associated project information presented hereon shall be held in confidence and disclosed to other parties only with the authorization of the Client or Ardaman & Associates, Inc. Physical and electronic records of each project are kept for a minimum of 7 years. Test samples are kept in storage for at least 10 working days after mailing of the test report, prior to being discarded, unless a longer storage period is requested in writing and accepted by Ardaman & Associates, Inc.

Where: H = Specimen height; D = Specimen diameter; V = Volume; WDS = Dry mass; w<sub>c</sub> = Moisture content (ASTM D 2216);  $\gamma_d$  = Dry density; S = Saturation;  $\bar{\sigma}_c$  = Isotropic effective confining stress;  $u_b$  = Back-pressure;  $i_{avg}$  = Average hydraulic gradient; Q = Flow volume; t = Test duration;  $k_{20}$  = Saturated hydraulic conductivity at 20°C; n = Total porosity; and  $G_s$  = Specific gravity.

Checked By:   
 Form SR-2B: Rev. 0

Date: 11/17/08

## ARDAMAN & ASSOCIATES, INC. GEOTECHNICAL TESTING LABORATORY ROCK CORE HYDRAULIC CONDUCTIVITY TEST REPORT

CLIENT: All Webb's Enterprises, Inc. INCOMING LABORATORY SAMPLE NO.: 2424'  
 PROJECT: Okeechobee Landfill Deep Injection Well LABORATORY IDENTIFICATION NO.: 085592-2424H  
 FILE NO.: 08-5592 SAMPLE DESCRIPTION: Light brown limestone  
 DATE SAMPLE RECEIVED: 09/09/08 SET UP: 10/03/08  
 DATE REPORTED: 11/17/08

ASTM D 5084 TEST METHOD:  
 A - Constant Head  
 B - Falling Head; Constant Tailwater  
 C - Falling Head; Rising Tailwater  
 F - Constant Volume; Falling Head - Rising Tailwater

B-FACTOR: - %  Beginning of Test;  
 End of Test  
 $\Delta\sigma_c$  (psi): -

SPECIMEN DATA:  
 As-Received Diameter (inch): 4 Diameter Trimmed:  Yes  No  
 As-Received Length (inch): 10.0/7.4\* Length Trimmed:  Yes  No

TEST SPECIMEN ORIENTATION:  Vertical  Horizontal

SPECIFIC GRAVITY,  $G_s$ : 2.71  Assumed  
 Measured (ASTM D 854)


PERMEANT:  Deaired Tap Water  Other \_\_\_\_\_

Initial Conditions							Test Conditions					Final Conditions			Hydraulic Conductivity $k_{20}$ (cm/sec)
H (cm)	D (cm)	V (cm <sup>3</sup> )	$w_c$ (%)	$\gamma_d$ (pcf)	n	S (%)	$\bar{\sigma}_c$ (psi)	$u_b$ (psi)	$i_{avg}$	Q (cm <sup>3</sup> )	t (days)	WDS (g)	$w_c$ (%)	S (%)	
7.02	5.02	139.12	2.1	159.4	0.057	94	30	160	1.5	0.44	27	355.39	2.2	100	<b>1.6 x 10<sup>-10</sup></b>

COMMENTS: (1) Horizontal permeability test specimen was cross-cored from the corresponding vertical test specimen.  
 \* First length is total sample length. Second length is useable length at full core diameter.

The test data and all associated project information presented hereon shall be held in confidence and disclosed to other parties only with the authorization of the Client or Ardaman & Associates, Inc. Physical and electronic records of each project are kept for a minimum of 7 years. Test samples are kept in storage for at least 10 working days after mailing of the test report, prior to being discarded, unless a longer storage period is requested in writing and accepted by Ardaman & Associates, Inc.

Where: H = Specimen height; D = Specimen diameter; V = Volume; WDS = Dry mass;  $w_c$  = Moisture content (ASTM D 2216);  $\gamma_d$  = Dry density; S = Saturation;  $\bar{\sigma}_c$  = Isotropic effective confining stress;  $u_b$  = Back-pressure;  $i_{avg}$  = Average hydraulic gradient; Q = Flow volume; t = Test duration;  $k_{20}$  = Saturated hydraulic conductivity at 20°C; n = Total porosity; and  $G_s$  = Specific gravity.

Checked By:  Date: 11/17/08

## ARDAMAN & ASSOCIATES, INC. GEOTECHNICAL TESTING LABORATORY ROCK CORE HYDRAULIC CONDUCTIVITY TEST REPORT

CLIENT: All Webb's Enterprises, Inc. INCOMING LABORATORY SAMPLE NO.: 2502'  
 PROJECT: Okeechobee Landfill Deep Injection Well LABORATORY IDENTIFICATION NO.: 085592-2502V  
 FILE NO.: 08-5592 SAMPLE DESCRIPTION: Light brown limestone  
 DATE SAMPLE RECEIVED: 09/09/08 SET UP: 09/22/08  
 DATE REPORTED: 11/17/08

**ASTM D 5084 TEST METHOD:**

- A - Constant Head
- B - Falling Head; Constant Tailwater
- C - Falling Head; Rising Tailwater
- F - Constant Volume; Falling Head - Rising Tailwater

B-FACTOR: 97 %  Beginning of Test;  
 End of Test  
 $\Delta\sigma_c$  (psi): 14

**SPECIMEN DATA:**

As-Received Diameter (inch): 4 Diameter Trimmed:  Yes  No  
 As-Received Length (inch): 6.3/5.0\* Length Trimmed:  Yes  No

TEST SPECIMEN ORIENTATION:  Vertical  Horizontal

SPECIFIC GRAVITY,  $G_s$ : 2.74  Assumed  
 Measured (ASTM D 854)

PERMEANT:  Deaired Tap Water  Other \_\_\_\_\_

Initial Conditions							Test Conditions					Final Conditions			Hydraulic Conductivity $k_{20}$ (cm/sec)
H (cm)	D (cm)	V (cm <sup>3</sup> )	w <sub>c</sub> (%)	$\gamma_d$ (pcf)	n	S (%)	$\bar{\sigma}_c$ (psi)	$u_b$ (psi)	$i_{avg}$	Q (cm <sup>3</sup> )	t (days)	WDS (g)	w <sub>c</sub> (%)	S (%)	
11.20	9.77	839.89	11.5	128.9	0.246	97	30	160	19	6.8	2	1735.35	11.5	97	<b>9.1 x 10<sup>-5</sup></b>

COMMENTS: (1) Core sample selected for permeability testing was cut to length, air-dried, deaired under vacuum for a minimum of 24 hours, and then saturated with deaired tap water from the bottom up while still under vacuum. (2) w<sub>c</sub> from initial total weight after saturation and assuming WDS equals initial air-dry weight.  
 \* First length is total sample length. Second length is useable length at full core diameter.

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Where: H = Specimen height; D = Specimen diameter; V = Volume; WDS = Dry mass; w<sub>c</sub> = Moisture content (ASTM D 2216);  $\gamma_d$  = Dry density; S = Saturation;  $\bar{\sigma}_c$  = Isotropic effective confining stress;  $u_b$  = Back-pressure;  $i_{avg}$  = Average hydraulic gradient; Q = Flow volume; t = Test duration;  $k_{20}$  = Saturated hydraulic conductivity at 20°C; n = Total porosity; and  $G_s$  = Specific gravity.

Checked By: TM  
 Form SR-2B: Rev. 0

Date: 11/17/08

## ARDAMAN & ASSOCIATES, INC. GEOTECHNICAL TESTING LABORATORY ROCK CORE HYDRAULIC CONDUCTIVITY TEST REPORT

CLIENT: All Webb's Enterprises, Inc. INCOMING LABORATORY SAMPLE NO.: 2502'  
 PROJECT: Okeechobee Landfill Deep Injection Well LABORATORY IDENTIFICATION NO.: 085592-2502H  
 FILE NO.: 08-5592 SAMPLE DESCRIPTION: Light brown limestone  
 DATE SAMPLE RECEIVED: 09/09/08 SET UP: 10/03/08  
 DATE REPORTED: 11/17/08

ASTM D 5084 TEST METHOD:  
 A - Constant Head  
 B - Falling Head; Constant Tailwater  
 C - Falling Head; Rising Tailwater  
 F - Constant Volume; Falling Head - Rising Tailwater

B-FACTOR: 98 %  Beginning of Test;  
 End of Test  
 $\Delta\sigma_c$  (psi): 14

SPECIMEN DATA:  
 As-Received Diameter (inch): 4 Diameter Trimmed:  Yes  No  
 As-Received Length (inch): 6.3/5.0\* Length Trimmed:  Yes  No

TEST SPECIMEN ORIENTATION:  Vertical  Horizontal

SPECIFIC GRAVITY,  $G_s$ : 2.74  Assumed  
 Measured (ASTM D 854)

PERMEANT:  Deaired Tap Water  Other \_\_\_\_\_

Initial Conditions							Test Conditions					Final Conditions			Hydraulic Conductivity $k_{20}$ (cm/sec)
H (cm)	D (cm)	V (cm <sup>3</sup> )	$w_c$ (%)	$\gamma_d$ (pcf)	n	S (%)	$\bar{\sigma}_c$ (psi)	$u_b$ (psi)	$i_{avg}$	Q (cm <sup>3</sup> )	t (days)	WDS (g)	$w_c$ (%)	S (%)	
7.30	5.02	144.57	10.6	132.1	0.227	98	30	160	37	2.1	3	306.04	10.6	98	<b>1.4 x 10<sup>-4</sup></b>

COMMENTS: (1) Horizontal permeability test specimen was cross-cored from the corresponding vertical test specimen.  
 \* First length is total sample length. Second length is useable length at full core diameter.

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Where: H = Specimen height; D = Specimen diameter; V = Volume; WDS = Dry mass;  $w_c$  = Moisture content (ASTM D 2216);  $\gamma_d$  = Dry density; S = Saturation;  $\bar{\sigma}_c$  = Isotropic effective confining stress;  $u_b$  = Back-pressure;  $i_{avg}$  = Average hydraulic gradient; Q = Flow volume; t = Test duration;  $k_{20}$  = Saturated hydraulic conductivity at 20°C; n = Total porosity; and  $G_s$  = Specific gravity.

Checked By: TM Date: 11/17/08  
 Form SR-2B: Rev. 0











## ANALYTICAL REPORT

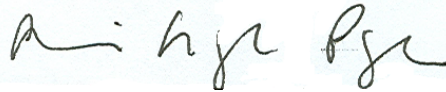
Job Number: 680-42932-1

Job Description: Okeechobee Landfill Inj. Well Permit

For:

Waste Management, Inc.  
Okeechobee Landfill  
10800 NE 128th Avenue  
Okeechobee, FL 34972

Attention: Mr. Tony Bishop



Approved for release.  
Abbie Page  
Project Manager I  
12/30/2008 3:16 PM

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Abbie Page  
Project Manager I  
abbie.page@testamericainc.com  
12/30/2008  
Revision: 1

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

**TestAmerica Laboratories, Inc.**

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**Job Narrative**  
**680-J42932-1**

**Comments**

No additional comments.

**Receipt**

Method(s) 524.2: The following sample(s) submitted for volatiles analysis was received with insufficient preservation (pH >2): 680-42932-1. Analysis was cancelled and client will re-submit new volume.

Method(s) 524.2: The following sample(s) submitted for volatiles analysis was received with insufficient preservation (pH >2): 680-42932-4.

All other samples were received in good condition within temperature requirements.

**GC/MS VOA**

Method(s) 524.2: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for four (4) analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 125333 had two (2) analytes outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

No other analytical or quality issues were noted.

**GC/MS Semi VOA**

Method(s) 525.2: Sample 680-42932-1 (LTM 04) has low internal standards and high surrogate recovery. Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

**HPLC**

Method(s) 531.1: The following sample(s) was diluted due to the nature of the sample matrix: 680-42932-1. Elevated reporting limits (RLs) are provided.

Method(s) 547: The following sample(s) was diluted due to the nature of the sample matrix: 680-42932-1. Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

**GC Semi VOA**

Method(s) 515.1: Surrogate recovery for the following samples was outside control limits: 680-19875-4. Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed. The unspiked sample surrogate recovery was within control limits.

No other analytical or quality issues were noted.

**Metals**

Method(s) 200.8: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample(s): 680-42932-1. 680-42932-1

No other analytical or quality issues were noted.

**General Chemistry**

Method(s) 425.1: The following sample(s) was diluted due to appearance or color: 680-42932-1. Elevated reporting limits (RL) are provided.

Method(s) 353.2: The following sample(s) was diluted due to appearance or color: 680-42932-1. Elevated reporting limits (RL) are provided.

No other analytical or quality issues were noted.

**Biology**

Method(s) SM 9222B: Coliforms were not detected; however, the presence of confluent growth may have suppressed coliform growth in the following samples: 680-42932-4. Sample results may be biased low.

Method(s) SM 9222B: Coliforms were detected; however, the presence of confluent growth may have suppressed coliform growth in the

following sample: 680-42932-5. Sample result may be biased low.

No other analytical or quality issues were noted.

## METHOD SUMMARY

Client: Waste Management, Inc.

Job Number: 680-42932-1

Description	Lab Location	Method	Preparation Method
<b>Matrix</b> <b>Water</b>			
Volatile Organic Compounds (GC/MS)	TAL SAV	EPA-DW 524.2	
Semivolatile Organic Compounds (GC/MS)	TAL SAV	EPA 525.2	
Extraction of Semivolatile Compounds	TAL SAV		EPA 525.2
Endothall (GC/MS)	TAL SAV	EPA-DW 548.1	
Extraction of Endothall	TAL SAV		EPA-DW 548.1
Carbamate Pesticides (HPLC)	TAL SAV	EPA 531.1	
Glyphosate (DAI HPLC)	TAL SAV	EPA 547	
Diquat and Paraquat (HPLC)	TAL SAV	EPA 549.2	
Extraction of Diquat and Paraquat	TAL SAV		EPA 549.2
EDB, DBCP and 1,2,3-TCP (GC)	TAL SAV	EPA-DW 504.1	
Microextraction	TAL SAV		EPA-DW 504.1
Chlorinated Pesticides & PCBs (GC)	TAL SAV	EPA 508	
Liquid-Liquid Extraction (Separatory Funnel)	TAL SAV		EPA 508
Herbicides (GC)	TAL SAV	EPA-01 515.1	
Extraction of Chlorinated Acids	TAL SAV		EPA-DW 515.1
Metals (ICP)	TAL SAV	40CFR136A 200.7 Rev 4.4	
Preparation, Total Metals	TAL SAV		EPA 200.7
Metals (ICP/MS)	TAL SAV	EPA 200.8	
Preparation, Total Metals	TAL SAV		EPA 200.8
Odor, Threshold	TAL TAM	MCAWW 140.1	
pH (Electrometric)	TAL SAV	MCAWW 150.1	
Anions, Ion Chromatography	TAL SAV	MCAWW 300.0	
Cyanide, Total	TAL SAV	MCAWW 335.4	
Distillation, Cyanide	TAL SAV		Distill/CN
Nitrogen, Nitrate-Nitrite	TAL SAV	MCAWW 353.2	
Nitrogen, Nitrite	TAL SAV	MCAWW 353.2	
Color, Colorimetric	TAL SAV	SM SM 2120B	
Odor	TAL SAV	SM SM 2150B	
Conductivity, Specific Conductance	TAL SAV	SM SM 2510B	
Solids, Total Dissolved (TDS)	TAL SAV	SM SM 2540C	
Methylene Blue Active Substances (MBAS)	TAL SAV	SM SM 5540C	
Coliforms, Total (Membrane Filter)	TAL SAV	SM SM 9222B	

**Lab References:**

TAL SAV = TestAmerica Savannah

TAL TAM = TestAmerica Tampa

## METHOD SUMMARY

Client: Waste Management, Inc.

Job Number: 680-42932-1

<b>Description</b>	<b>Lab Location</b>	<b>Method</b>	<b>Preparation Method</b>
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### Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

EPA-01 = "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992.

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",



## METHOD / ANALYST SUMMARY

Client: Waste Management, Inc.

Job Number: 680-42932-1

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
EPA-DW 524.2	Jakubsen, Melanie	MLJ
EPA 525.2	Davis, Nancy	ND
EPA-DW 548.1	Davis, Nancy	ND
EPA 531.1	Brazell, Connie	CB
EPA 547	Dalton, Gloria	GJ
EPA 549.2	Dalton, Gloria	GJ
EPA-DW 504.1	Kellar, Joshua	JK
EPA 508	Kellar, Joshua	JK
EPA-01 515.1	Kellar, Joshua	JK
40CFR136A 200.7 Rev 4.4	Bland, Brian	BCB
EPA 200.8	Boyuk, Brian	BB
MCAWW 140.1	Mostafavifar, Efe	EM
MCAWW 150.1	Lanier, Jerry	JL
MCAWW 300.0	Brazell, Connie	CB
MCAWW 335.4	McDonald, Debbie	DM
MCAWW 353.2	Thomas, Anitra D	ADT
SM SM 2120B	Nelson, Christopher	CN
SM SM 2150B	Nelson, Christopher	CN
SM SM 2510B	Lanier, Jerry	JL
SM SM 2540C	Williams, Dyanne	DW
SM SM 5540C	Brantley, Willie	WB
SM SM 9222B	Hornsby, Terry	TH

## SAMPLE SUMMARY

Client: Waste Management, Inc.

Job Number: 680-42932-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
680-42932-1	LTM 04	Water	12/08/2008 0900	12/09/2008 0922
680-42932-2	Pond 1D	Water	12/08/2008 1100	12/09/2008 0922
680-42932-3	Trip Blank	Water	12/08/2008 0000	12/09/2008 0922
680-42932-4	LTM 04	Water	12/17/2008 0820	12/17/2008 0909
680-42932-5	Pond 1D	Water	12/17/2008 0900	12/17/2008 0909
680-42932-6	Trip Blank	Water	12/17/2008 0000	12/17/2008 0909
680-42932-7	LTM 04	Water	12/19/2008 0000	12/20/2008 2359

## Analytical Data

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID:** Pond 1D

Lab Sample ID: 680-42932-2

Date Sampled: 12/08/2008 1100

Client Matrix: Water

Date Received: 12/09/2008 0922

### 524.2 Volatile Organic Compounds (GC/MS)

Method:	524.2	Analysis Batch: 680-125333	Instrument ID: GC/MS Volatiles - U
Preparation:	N/A		Lab File ID: u12139.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	12/12/2008 2059		Final Weight/Volume: 5 mL
Date Prepared:	N/A		

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	<0.25	U	0.25	0.50
Xylenes, Total	<0.44	U	0.44	0.50
1,2,4-Trichlorobenzene	<0.38	U	0.38	0.50
Trichloroethene	<0.20	U	0.20	0.50
Trihalomethanes, Total	<0.16	U	0.16	0.50
Methylene Chloride	<0.21	U	0.21	0.50
1,2-Dichlorobenzene	<0.23	U	0.23	0.50
1,4-Dichlorobenzene	<0.17	U	0.17	0.50
Vinyl chloride	<0.29	U	0.29	0.50
1,1-Dichloroethene	<0.24	U	0.24	0.50
trans-1,2-Dichloroethene	<0.22	U	0.22	0.50
1,2-Dichloroethane	<0.19	U	0.19	0.50
1,1,1-Trichloroethane	<0.16	U	0.16	0.50
Carbon tetrachloride	<0.38	U	0.38	0.50
1,2-Dichloropropane	<0.22	U	0.22	0.50
1,1,2-Trichloroethane	<0.25	U	0.25	0.50
Tetrachloroethene	<0.22	U	0.22	0.50
Chlorobenzene	<0.19	U	0.19	0.50
Benzene	<0.19	U	0.19	0.50
Toluene	<0.21	U	0.21	0.50
Chloroform	<0.20	U	0.20	0.50
Ethylbenzene	<0.18	U	0.18	0.50
Dichlorobromomethane	<0.19	U J	0.19	0.50
Styrene	<0.30	U	0.30	0.50
Bromoform	<0.17	U	0.17	0.50
Chlorodibromomethane	<0.16	U	0.16	0.50
Chloroethane	<0.36	U	0.36	1.0
Surrogate	%Rec	Acceptance Limits		
1,2-Dichlorobenzene-d4	84	70 - 130		
4-Bromofluorobenzene	89	70 - 130		

## Analytical Data

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID:** Trip Blank

Lab Sample ID: 680-42932-3

Date Sampled: 12/08/2008 0000

Client Matrix: Water

Date Received: 12/09/2008 0922

### 524.2 Volatile Organic Compounds (GC/MS)

Method:	524.2	Analysis Batch: 680-125333	Instrument ID: GC/MS Volatiles - U
Preparation:	N/A		Lab File ID: u12138.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	12/12/2008 2036		Final Weight/Volume: 5 mL
Date Prepared:	N/A		

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	<0.25	U	0.25	0.50
Xylenes, Total	<0.44	U	0.44	0.50
1,2,4-Trichlorobenzene	<0.38	U	0.38	0.50
Trichloroethene	<0.20	U	0.20	0.50
Trihalomethanes, Total	<0.16	U	0.16	0.50
Methylene Chloride	<0.21	U	0.21	0.50
1,2-Dichlorobenzene	<0.23	U	0.23	0.50
1,4-Dichlorobenzene	<0.17	U	0.17	0.50
Vinyl chloride	<0.29	U	0.29	0.50
1,1-Dichloroethene	<0.24	U	0.24	0.50
trans-1,2-Dichloroethene	<0.22	U	0.22	0.50
1,2-Dichloroethane	<0.19	U	0.19	0.50
1,1,1-Trichloroethane	<0.16	U	0.16	0.50
Carbon tetrachloride	<0.38	U	0.38	0.50
1,2-Dichloropropane	<0.22	U	0.22	0.50
1,1,2-Trichloroethane	<0.25	U	0.25	0.50
Tetrachloroethene	<0.22	U	0.22	0.50
Chlorobenzene	<0.19	U	0.19	0.50
Benzene	<0.19	U	0.19	0.50
Toluene	<0.21	U	0.21	0.50
Chloroform	<0.20	U	0.20	0.50
Ethylbenzene	<0.18	U	0.18	0.50
Dichlorobromomethane	<0.19	U J	0.19	0.50
Styrene	<0.30	U	0.30	0.50
Bromoform	<0.17	U	0.17	0.50
Chlorodibromomethane	<0.16	U	0.16	0.50
Chloroethane	<0.36	U	0.36	1.0
Surrogate	%Rec	Acceptance Limits		
1,2-Dichlorobenzene-d4	86	70 - 130		
4-Bromofluorobenzene	86	70 - 130		

## Analytical Data

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID:** LTM 04

Lab Sample ID: 680-42932-4

Date Sampled: 12/17/2008 0820

Client Matrix: Water

Date Received: 12/17/2008 0909

### 524.2 Volatile Organic Compounds (GC/MS)

Method:	524.2	Analysis Batch: 680-125966	Instrument ID: GC/MS Volatiles - U
Preparation:	N/A		Lab File ID: u12319.d
Dilution:	50		Initial Weight/Volume: 5 mL
Date Analyzed:	12/19/2008 1322		Final Weight/Volume: 5 mL
Date Prepared:	N/A		

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	<12	U Q	12	25
Xylenes, Total	<22	U Q	22	25
1,2,4-Trichlorobenzene	<19	U Q	19	25
Trichloroethene	<10	U Q	10	25
Trihalomethanes, Total	<8.0	U Q	8.0	25
Methylene Chloride	<10	U Q	10	25
1,2-Dichlorobenzene	<12	U Q	12	25
1,4-Dichlorobenzene	<8.5	U Q	8.5	25
Vinyl chloride	<14	U Q	14	25
1,1-Dichloroethene	<12	U Q	12	25
trans-1,2-Dichloroethene	<11	U Q	11	25
1,2-Dichloroethane	<9.5	U Q	9.5	25
1,1,1-Trichloroethane	<8.0	U Q	8.0	25
Carbon tetrachloride	<19	U Q	19	25
1,2-Dichloropropane	<11	U Q	11	25
1,1,2-Trichloroethane	<12	U Q	12	25
Tetrachloroethene	<11	U Q	11	25
Chlorobenzene	<9.5	U Q	9.5	25
Benzene	<9.5	U Q	9.5	25
Toluene	30	Q	10	25
Chloroform	<10	U Q	10	25
Ethylbenzene	<9.0	U Q	9.0	25
Dichlorobromomethane	<9.5	U Q	9.5	25
Styrene	<15	U Q	15	25
Bromoform	<8.5	U Q	8.5	25
Chlorodibromomethane	<8.0	U Q	8.0	25
Chloroethane	<18	U Q	18	50
Surrogate	%Rec	Acceptance Limits		
1,2-Dichlorobenzene-d4	87	70 - 130		
4-Bromofluorobenzene	92	70 - 130		

## Analytical Data

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID:** Trip Blank

Lab Sample ID: 680-42932-6

Date Sampled: 12/17/2008 0000

Client Matrix: Water

Date Received: 12/17/2008 0909

### 524.2 Volatile Organic Compounds (GC/MS)

Method:	524.2	Analysis Batch: 680-125955	Instrument ID: GC/MS Volatiles - U
Preparation:	N/A		Lab File ID: u12191.d
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	12/18/2008 2106		Final Weight/Volume: 5 mL
Date Prepared:	N/A		

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	<0.25	U	0.25	0.50
Xylenes, Total	<0.44	U	0.44	0.50
1,2,4-Trichlorobenzene	<0.38	U	0.38	0.50
Trichloroethene	<0.20	U	0.20	0.50
Trihalomethanes, Total	<0.16	U	0.16	0.50
Methylene Chloride	<0.21	U	0.21	0.50
1,2-Dichlorobenzene	<0.23	U	0.23	0.50
1,4-Dichlorobenzene	<0.17	U	0.17	0.50
Vinyl chloride	<0.29	U	0.29	0.50
1,1-Dichloroethene	<0.24	U	0.24	0.50
trans-1,2-Dichloroethene	<0.22	U	0.22	0.50
1,2-Dichloroethane	<0.19	U	0.19	0.50
1,1,1-Trichloroethane	<0.16	U	0.16	0.50
Carbon tetrachloride	<0.38	U	0.38	0.50
1,2-Dichloropropane	<0.22	U	0.22	0.50
1,1,2-Trichloroethane	<0.25	U	0.25	0.50
Tetrachloroethene	<0.22	U	0.22	0.50
Chlorobenzene	<0.19	U	0.19	0.50
Benzene	<0.19	U	0.19	0.50
Toluene	<0.21	U	0.21	0.50
Chloroform	<0.20	U	0.20	0.50
Ethylbenzene	<0.18	U	0.18	0.50
Dichlorobromomethane	<0.19	U J	0.19	0.50
Styrene	<0.30	U	0.30	0.50
Bromoform	<0.17	U	0.17	0.50
Chlorodibromomethane	<0.16	U	0.16	0.50
Chloroethane	<0.36	U	0.36	1.0
Surrogate	%Rec	Acceptance Limits		
1,2-Dichlorobenzene-d4	88	70 - 130		
4-Bromofluorobenzene	92	70 - 130		

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: LTM 04**

Lab Sample ID: 680-42932-1  
 Client Matrix: Water

Date Sampled: 12/08/2008 0900  
 Date Received: 12/09/2008 0922

**525.2 Semivolatile Organic Compounds (GC/MS)**

Method:	525.2	Analysis Batch: 680-125513	Instrument ID:	GC/MS SemiVoa - R
Preparation:	525.2	Prep Batch: 680-125154	Lab File ID:	R609.D
Dilution:	1.0		Initial Weight/Volume:	10 mL
Date Analyzed:	12/15/2008 1752		Final Weight/Volume:	1 mL
Date Prepared:	12/12/2008 0814		Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Alachlor	<6.0	U	6.0	20
Atrazine	<4.3	U	4.3	20
Benzo[a]pyrene	<2.5	U	2.5	20
Bis(2-ethylhexyl) phthalate	<50	U	50	200
Di(2-ethylhexyl)adipate	<50	U	50	150
Heptachlor	<3.8	U	3.8	20
Heptachlor epoxide	<9.1	U	9.1	20
Endrin	<12	U	12	50
Hexachlorobenzene	<3.2	U	3.2	20
Hexachlorocyclopentadiene	<5.6	U	5.6	200
gamma-BHC (Lindane)	<6.9	U	6.9	20
Methoxychlor	<10	U	10	50
Simazine	<7.6	U	7.6	50
Surrogate	%Rec		Acceptance Limits	
Triphenylphosphate	145	J	70 - 130	

Analytical Data

Client: Waste Management, Inc.

Job Number: 680-42932-1

Client Sample ID: Pond 1D

Lab Sample ID: 680-42932-2

Date Sampled: 12/08/2008 1100

Client Matrix: Water

Date Received: 12/09/2008 0922

525.2 Semivolatile Organic Compounds (GC/MS)

Method: 525.2 Analysis Batch: 680-125285 Instrument ID: GC/MS SemiVoa - R  
Preparation: 525.2 Prep Batch: 680-125154 Lab File ID: R599.D  
Dilution: 1.0 Initial Weight/Volume: 1030 mL  
Date Analyzed: 12/14/2008 0121 Final Weight/Volume: 1 mL  
Date Prepared: 12/12/2008 0814 Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Alachlor	<0.058	U	0.058	0.19
Atrazine	<0.042	U	0.042	0.19
Benzo[a]pyrene	<0.024	U	0.024	0.19
Bis(2-ethylhexyl) phthalate	<0.49	U	0.49	1.9
Di(2-ethylhexyl)adipate	<0.49	U	0.49	1.5
Heptachlor	<0.037	U	0.037	0.19
Heptachlor epoxide	<0.088	U	0.088	0.19
Endrin	<0.12	U	0.12	0.49
Hexachlorobenzene	<0.031	U	0.031	0.19
Hexachlorocyclopentadiene	<0.054	U	0.054	1.9
gamma-BHC (Lindane)	<0.067	U	0.067	0.19
Methoxychlor	<0.097	U	0.097	0.49
Simazine	<0.074	U	0.074	0.49
Surrogate	%Rec		Acceptance Limits	
Triphenylphosphate	110		70 - 130	



**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: LTM 04**

Lab Sample ID: 680-42932-1

Date Sampled: 12/08/2008 0900

Client Matrix: Water

Date Received: 12/09/2008 0922

---

**548.1 Endothall (GC/MS)**

Method: 548.1  
Preparation: 548.1  
Dilution: 1.0  
Date Analyzed: 12/16/2008 0731  
Date Prepared: 12/10/2008 0826

Analysis Batch: 680-125495  
Prep Batch: 680-124876

Instrument ID: GC/MS SemiVoa - R  
Lab File ID: R651.D  
Initial Weight/Volume: 100 mL  
Final Weight/Volume: 1 mL  
Injection Volume:

---

Analyte	Result (ug/L)	Qualifier	MDL	RL
Endothall	<2.6	U	2.6	10

---

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: Pond 1D**

Lab Sample ID: 680-42932-2

Date Sampled: 12/08/2008 1100

Client Matrix: Water

Date Received: 12/09/2008 0922

---

**548.1 Endothall (GC/MS)**

Method: 548.1  
Preparation: 548.1  
Dilution: 1.0  
Date Analyzed: 12/16/2008 0546  
Date Prepared: 12/10/2008 0826

Analysis Batch: 680-125495  
Prep Batch: 680-124876

Instrument ID: GC/MS SemiVoa - R  
Lab File ID: R641.D  
Initial Weight/Volume: 100 mL  
Final Weight/Volume: 1 mL  
Injection Volume:

---

Analyte	Result (ug/L)	Qualifier	MDL	RL
Endothall	<2.6	U	2.6	10

---

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: LTM 04**

Lab Sample ID: 680-42932-1

Date Sampled: 12/08/2008 0900

Client Matrix: Water

Date Received: 12/09/2008 0922

---

**531.1 Carbamate Pesticides (HPLC)**

Method: 531.1  
Preparation: N/A  
Dilution: 100  
Date Analyzed: 12/19/2008 0556  
Date Prepared: N/A

Analysis Batch: 680-125903

Instrument ID: HPLC - J  
Lab File ID: 1J121831.D  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 1.0 mL  
Injection Volume: 4 uL

---

Analyte	Result (ug/L)	Qualifier	MDL	RL
Oxamyl	<42	U	42	250
Carbofuran	<16	U	16	250
Aldicarb	<38	U	38	250
Aldicarb sulfone	<37	U	37	250
Aldicarb sulfoxide	<51	U	51	250

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: Pond 1D**

Lab Sample ID: 680-42932-2

Date Sampled: 12/08/2008 1100

Client Matrix: Water

Date Received: 12/09/2008 0922

---

**531.1 Carbamate Pesticides (HPLC)**

Method: 531.1

Analysis Batch: 680-125903

Instrument ID: HPLC - J

Preparation: N/A

Lab File ID: 1J121832.D

Dilution: 1.0

Initial Weight/Volume: 1.0 mL

Date Analyzed: 12/19/2008 0635

Final Weight/Volume: 1.0 mL

Date Prepared: N/A

Injection Volume: 4 uL

---

Analyte	Result (ug/L)	Qualifier	MDL	RL
Oxamyl	<0.42	U	0.42	2.5
Carbofuran	<0.16	U	0.16	2.5
Aldicarb	<0.38	U	0.38	2.5
Aldicarb sulfone	<0.37	U	0.37	2.5
Aldicarb sulfoxide	<0.51	U	0.51	2.5

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: LTM 04**

Lab Sample ID: 680-42932-1

Date Sampled: 12/08/2008 0900

Client Matrix: Water

Date Received: 12/09/2008 0922

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**547 Glyphosate (DAI HPLC)**

Method: 547

Analysis Batch: 680-126103

Instrument ID: HPLC - K

Preparation: N/A

Lab File ID: 1K122235.D

Dilution: 50

Initial Weight/Volume:

Date Analyzed: 12/22/2008 2054

Final Weight/Volume: 1.0 mL

Date Prepared: N/A

Injection Volume: 100 uL

---

Analyte	Result (ug/L)	Qualifier	MDL	RL
Glyphosate	<100	U	100	1200

---

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: Pond 1D**

Lab Sample ID: 680-42932-2

Date Sampled: 12/08/2008 1100

Client Matrix: Water

Date Received: 12/09/2008 0922

---

**547 Glyphosate (DAI HPLC)**

Method: 547  
Preparation: N/A  
Dilution: 1.0  
Date Analyzed: 12/22/2008 2112  
Date Prepared: N/A

Analysis Batch: 680-126103

Instrument ID: HPLC - K  
Lab File ID: 1K122236.D  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL  
Injection Volume: 100 uL

---

Analyte	Result (ug/L)	Qualifier	MDL	RL
Glyphosate	<2.0	U	2.0	25

---

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: LTM 04**

Lab Sample ID: 680-42932-1

Date Sampled: 12/08/2008 0900

Client Matrix: Water

Date Received: 12/09/2008 0922

---

**549.2 Diquat and Paraquat (HPLC)**

Method: 549.2  
Preparation: 549.2  
Dilution: 5.0  
Date Analyzed: 12/11/2008 2234  
Date Prepared: 12/10/2008 1846

Analysis Batch: 680-125240  
Prep Batch: 680-124990

Instrument ID: HPCL - M  
Lab File ID: 1M121120.D  
Initial Weight/Volume: 250 mL  
Final Weight/Volume: 10 mL  
Injection Volume: 20 uL

---

Analyte	Result (ug/L)	Qualifier	MDL	RL
Diquat	<0.70	U	0.70	25

---

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: Pond 1D**

Lab Sample ID: 680-42932-2

Date Sampled: 12/08/2008 1100

Client Matrix: Water

Date Received: 12/09/2008 0922

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**549.2 Diquat and Paraquat (HPLC)**

Method: 549.2  
Preparation: 549.2  
Dilution: 1.0  
Date Analyzed: 12/11/2008 2243  
Date Prepared: 12/10/2008 1846

Analysis Batch: 680-125240  
Prep Batch: 680-124990

Instrument ID: HPCL - M  
Lab File ID: 1M121121.D  
Initial Weight/Volume: 250 mL  
Final Weight/Volume: 10 mL  
Injection Volume: 20 uL

---

Analyte	Result (ug/L)	Qualifier	MDL	RL
Diquat	<0.14	U	0.14	5.0

---



# Analytical Data

Client: Waste Management, Inc.

Job Number: 680-42932-1

Client Sample ID: LTM 04

Lab Sample ID: 680-42932-1

Date Sampled: 12/08/2008 0900

Client Matrix: Water

Date Received: 12/09/2008 0922

## 504.1 EDB, DBCP and 1,2,3-TCP (GC)

Method: 504.1

Analysis Batch: 680-125493

Instrument ID: GC SemiVolatiles - X

Preparation: 504.1

Prep Batch: 680-125332

Lab File ID: xl15011.d

Dilution: 1.0

Initial Weight/Volume: 34.26 mL

Date Analyzed: 12/15/2008 1251

Final Weight/Volume: 2.0 mL

Date Prepared: 12/15/2008 0905

Injection Volume: 1 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane	0.019	I	0.0036	0.020
Ethylene Dibromide	<0.0043	U	0.0043	0.020
Surrogate	%Rec		Acceptance Limits	
1,2,3-Trichloropropane-(Surr)	103		70 - 130	

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: Pond 1D**

Lab Sample ID: 680-42932-2  
Client Matrix: Water

Date Sampled: 12/08/2008 1100  
Date Received: 12/09/2008 0922

---

**504.1 EDB, DBCP and 1,2,3-TCP (GC)**

Method: 504.1  
Preparation: 504.1  
Dilution: 1.0  
Date Analyzed: 12/15/2008 1231  
Date Prepared: 12/15/2008 0905

Analysis Batch: 680-125493  
Prep Batch: 680-125332

Instrument ID: GC SemiVolatiles - X  
Lab File ID: xl15009.d  
Initial Weight/Volume: 36.48 mL  
Final Weight/Volume: 2.0 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dibromo-3-Chloropropane	<0.0034	U	0.0034	0.019
Ethylene Dibromide	<0.0040	U	0.0040	0.019

Surrogate	%Rec	Acceptance Limits
1,2,3-Trichloropropane-(Surr)	120	70 - 130

# Analytical Data

Client: Waste Management, Inc.

Job Number: 680-42932-1

Client Sample ID: LTM 04

Lab Sample ID: 680-42932-1

Date Sampled: 12/08/2008 0900

Client Matrix: Water

Date Received: 12/09/2008 0922

## 508 Chlorinated Pesticides & PCBs (GC)

Method: 508

Analysis Batch: 680-125071

Instrument ID: GC SemiVolatiles - M

Preparation: 508

Prep Batch: 680-124861

Lab File ID: ml10027.d

Dilution: 1.0

Initial Weight/Volume: 1060 mL

Date Analyzed: 12/10/2008 2309

Final Weight/Volume: 5 mL

Date Prepared: 12/09/2008 1810

Injection Volume: 1 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aldrin	<0.0083	U	0.0083	0.024
Chlordane (technical)	<0.025	U	0.025	0.24
PCB-1016	<0.063	U	0.063	0.47
PCB-1221	<0.091	U	0.091	0.47
PCB-1232	<0.049	U	0.049	0.47
PCB-1242	<0.081	U	0.081	0.47
PCB-1248	<0.049	U	0.049	0.47
Dieldrin	<0.0055	U	0.0055	0.047
PCB-1254	<0.054	U	0.054	0.47
PCB-1260	<0.043	U	0.043	0.47
Toxaphene	<0.24	U	0.24	2.4
Polychlorinated biphenyls, Total	<0.091	U	0.091	0.47

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	108	70 - 130
Tetrachloro-m-xylene	75	70 - 130

## Analytical Data

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: Pond 1D**

Lab Sample ID: 680-42932-2  
 Client Matrix: Water

Date Sampled: 12/08/2008 1100  
 Date Received: 12/09/2008 0922

### 508 Chlorinated Pesticides & PCBs (GC)

Method:	508	Analysis Batch: 680-125071	Instrument ID: GC SemiVolatiles - M
Preparation:	508	Prep Batch: 680-124861	Lab File ID: ml10028.d
Dilution:	1.0		Initial Weight/Volume: 1060 mL
Date Analyzed:	12/10/2008 2329		Final Weight/Volume: 5 mL
Date Prepared:	12/09/2008 1810		Injection Volume: 1 uL
			Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aldrin	<0.0083	U	0.0083	0.024
Chlordane (technical)	<0.025	U	0.025	0.24
PCB-1016	<0.063	U	0.063	0.47
PCB-1221	<0.091	U	0.091	0.47
PCB-1232	<0.049	U	0.049	0.47
PCB-1242	<0.081	U	0.081	0.47
PCB-1248	<0.049	U	0.049	0.47
Dieldrin	<0.0055	U	0.0055	0.047
PCB-1254	<0.054	U	0.054	0.47
PCB-1260	<0.043	U	0.043	0.47
Toxaphene	<0.24	U	0.24	2.4
Polychlorinated biphenyls, Total	<0.091	U	0.091	0.47

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	83	70 - 130
Tetrachloro-m-xylene	75	70 - 130

# Analytical Data

Client: Waste Management, Inc.

Job Number: 680-42932-1

Client Sample ID: LTM 04

Lab Sample ID: 680-42932-1

Date Sampled: 12/08/2008 0900

Client Matrix: Water

Date Received: 12/09/2008 0922

## 515.1 Herbicides (GC)

Method: 515.1

Analysis Batch: 680-126174

Instrument ID: GC SemiVolatiles - S

Preparation: 515.1

Prep Batch: 680-125711

Lab File ID: sl22018.d

Dilution: 1.0

Initial Weight/Volume: 200 mL

Date Analyzed: 12/22/2008 1521

Final Weight/Volume: 10 mL

Date Prepared: 12/18/2008 0827

Injection Volume: 1 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4-D	<0.23	U	0.23	2.5
Dalapon	<0.28	U	0.28	50
Dinoseb	<0.26	U	0.26	15
Pentachlorophenol	<0.12	U	0.12	5.0
Picloram	<0.50	U	0.50	2.5
Silvex (2,4,5-TP)	<0.23	U	0.23	2.5
Surrogate	%Rec		Acceptance Limits	
2,4-Dichlorophenylacetic acid	118		70 - 130	

Analytical Data

Client: Waste Management, Inc.

Job Number: 680-42932-1

Client Sample ID: Pond 1D

Lab Sample ID: 680-42932-2

Client Matrix: Water

Date Sampled: 12/08/2008 1100

Date Received: 12/09/2008 0922

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515.1 Herbicides (GC)

Method: 515.1

Analysis Batch: 680-126174

Instrument ID: GC SemiVolatiles - S

Preparation: 515.1

Prep Batch: 680-125711

Lab File ID: sl22019.d

Dilution: 1.0

Initial Weight/Volume: 1010 mL

Date Analyzed: 12/22/2008 1539

Final Weight/Volume: 10 mL

Date Prepared: 12/18/2008 0827

Injection Volume: 1 uL

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
2,4-D	<0.046	U	0.046	0.50
Dalapon	<0.056	U	0.056	9.9
Dinoseb	<0.051	U	0.051	3.0
Pentachlorophenol	<0.025	U	0.025	0.99
Picloram	<0.099	U	0.099	0.50
Silvex (2,4,5-TP)	<0.046	U	0.046	0.50

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	95	70 - 130

Analytical Data

Client: Waste Management, Inc.

Job Number: 680-42932-1

Client Sample ID: LTM 04

Lab Sample ID: 680-42932-1  
Client Matrix: Water

Date Sampled: 12/08/2008 0900  
Date Received: 12/09/2008 0922

200.7 Rev 4.4 Metals (ICP)

Method: 200.7 Rev 4.4  
Preparation: 200.7  
Dilution: 1.0  
Date Analyzed: 12/19/2008 0652  
Date Prepared: 12/15/2008 1241

Analysis Batch: 680-125925  
Prep Batch: 680-125397

Instrument ID: ICP/AES - D  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chromium	120		1.3	10
Iron	7000		33	50
Nickel	230		1.6	40

Method: 200.7 Rev 4.4  
Preparation: 200.7  
Dilution: 100  
Date Analyzed: 12/19/2008 0226  
Date Prepared: 12/15/2008 1241

Analysis Batch: 680-125925  
Prep Batch: 680-125397

Instrument ID: ICP/AES - D  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Sodium	2800000		41000	100000

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: LTM 04**

Lab Sample ID: 680-42932-1  
 Client Matrix: Water

Date Sampled: 12/08/2008 0900  
 Date Received: 12/09/2008 0922

**200.8 Metals (ICP/MS)**

Method:	200.8	Analysis Batch: 680-125485	Instrument ID:	ICP MS - A
Preparation:	200.8	Prep Batch: 680-125144	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	12/13/2008 2032		Final Weight/Volume:	250 mL
Date Prepared:	12/11/2008 1719			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	19000		15	50
Arsenic	230	V	0.38	2.5
Barium	93		2.0	5.0
Beryllium	0.51		0.060	0.50
Cadmium	0.69		0.092	0.50
Copper	25		1.2	5.0
Lead	7.9		0.12	1.5
Selenium	13		0.60	2.5
Silver	0.70	I V	0.090	1.0
Thallium	<0.55	U	0.55	1.0
Zinc	60		6.0	20

Method:	200.8	Analysis Batch: 680-125485	Instrument ID:	ICP MS - A
Preparation:	200.8	Prep Batch: 680-125144	Lab File ID:	N/A
Dilution:	4.0		Initial Weight/Volume:	50 mL
Date Analyzed:	12/13/2008 2046		Final Weight/Volume:	250 mL
Date Prepared:	12/11/2008 1719			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	<0.88	U	0.88	2.0

Method:	200.8	Analysis Batch: 680-125491	Instrument ID:	ICP MS - A
Preparation:	200.8	Prep Batch: 680-125144	Lab File ID:	N/A
Dilution:	4.0		Initial Weight/Volume:	50 mL
Date Analyzed:	12/15/2008 1828		Final Weight/Volume:	250 mL
Date Prepared:	12/11/2008 1719			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	37		1.4	10
Manganese	180		2.0	20



**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Client Sample ID: Pond 1D**

Lab Sample ID: 680-42932-2  
 Client Matrix: Water

Date Sampled: 12/08/2008 1100  
 Date Received: 12/09/2008 0922

**200.7 Rev 4.4 Metals (ICP)**

Method: 200.7 Rev 4.4      Analysis Batch: 680-125925      Instrument ID: ICP/AES - D  
 Preparation: 200.7      Prep Batch: 680-125397      Lab File ID: N/A  
 Dilution: 1.0      Initial Weight/Volume: 50 mL  
 Date Analyzed: 12/19/2008 0231      Final Weight/Volume: 50 mL  
 Date Prepared: 12/15/2008 1241

Analyte	Result (ug/L)	Qualifier	MDL	RL
Chromium	<1.3	U	1.3	10
Iron	<33	U	33	50
Sodium	16000		410	1000
Nickel	<1.6	U	1.6	40

**200.8 Metals (ICP/MS)**

Method: 200.8      Analysis Batch: 680-125485      Instrument ID: ICP MS - A  
 Preparation: 200.8      Prep Batch: 680-125144      Lab File ID: N/A  
 Dilution: 1.0      Initial Weight/Volume: 50 mL  
 Date Analyzed: 12/13/2008 2059      Final Weight/Volume: 250 mL  
 Date Prepared: 12/11/2008 1719

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aluminum	120		15	50
Arsenic	2.0	I V	0.38	2.5
Barium	11		2.0	5.0
Beryllium	<0.060	U	0.060	0.50
Cadmium	<0.092	U	0.092	0.50
Copper	2.9	I	1.2	5.0
Lead	0.20	I	0.12	1.5
Mercury	<0.22	U	0.22	0.50
Selenium	<0.60	U	0.60	2.5
Silver	<0.090	U	0.090	1.0
Thallium	<0.55	U	0.55	1.0
Zinc	9.3	I	6.0	20

Method: 200.8      Analysis Batch: 680-125491      Instrument ID: ICP MS - A  
 Preparation: 200.8      Prep Batch: 680-125144      Lab File ID: N/A  
 Dilution: 1.0      Initial Weight/Volume: 50 mL  
 Date Analyzed: 12/15/2008 1834      Final Weight/Volume: 250 mL  
 Date Prepared: 12/11/2008 1719

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	<0.36	U	0.36	2.5
Manganese	3.3	I	0.50	5.0

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

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**Biology**

**Client Sample ID: LTM 04**

Lab Sample ID: 680-42932-4

Client Matrix: Water

Date Sampled: 12/17/2008 0820

Date Received: 12/17/2008 0909

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Coliform, Total	<1.0	U	CFU/100mL	1.0	1.0	1.0	SM 9222B
	Anly Batch: 680-126224	Date Analyzed	12/18/2008	1634			
Non-Coliform Growth	TNTC		CFU/100mL	1.0	1.0	1.0	SM 9222B
	Anly Batch: 680-126224	Date Analyzed	12/18/2008	1634			

**Client Sample ID: Pond 1D**

Lab Sample ID: 680-42932-5

Client Matrix: Water

Date Sampled: 12/17/2008 0900

Date Received: 12/17/2008 0909

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Coliform, Total	15		CFU/100mL	1.0	1.0	1.0	SM 9222B
	Anly Batch: 680-126224	Date Analyzed	12/18/2008	1634			
Non-Coliform Growth	TNTC		CFU/100mL	1.0	1.0	1.0	SM 9222B
	Anly Batch: 680-126224	Date Analyzed	12/18/2008	1634			

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**General Chemistry**

Analytical Data

Client: Waste Management, Inc.

Job Number: 680-42932-1

General Chemistry

Client Sample ID: LTM 04

Lab Sample ID: 680-42932-1  
 Client Matrix: Water

Date Sampled: 12/08/2008 0900  
 Date Received: 12/09/2008 0922

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	3500		mg/L	26	100	100	300.0
	Anly Batch: 680-125771	Date Analyzed		12/17/2008 1116			
Fluoride	<5.0	U	mg/L	5.0	20	100	300.0
	Anly Batch: 680-125771	Date Analyzed		12/17/2008 1116			
Sulfate	76	I	mg/L	50	100	100	300.0
	Anly Batch: 680-125771	Date Analyzed		12/17/2008 1116			
Cyanide, Total	0.024		mg/L	0.0050	0.010	1.0	335.4
	Anly Batch: 680-125187	Date Analyzed		12/12/2008 1037			
	Prep Batch: 680-125004	Date Prepared:		12/11/2008 0700			
Nitrate as N	<0.50	U	mg/L	0.50	1.0	20	353.2
	Anly Batch: 680-124866	Date Analyzed		12/09/2008 1628			
Nitrate Nitrite as N	<0.50	U	mg/L	0.50	1.0	20	353.2
	Anly Batch: 680-124866	Date Analyzed		12/09/2008 1628			
Nitrite as N	<0.20	U	mg/L	0.20	1.0	20	353.2
	Anly Batch: 680-124863	Date Analyzed		12/09/2008 1628			
Methylene Blue Active Substances	<1.0	U	mg/l LAS	1.0	2.0	10	SM 5540C
	Anly Batch: 680-124890	Date Analyzed		12/10/2008 0755			

Analyte	Result	Qual	Units		Dil	Method
pH	7.79	Q	SU		1.0	150.1
	Anly Batch: 680-125044	Date Analyzed		12/09/2008 1812		

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Color	50000		PCU	5000	5000	1000	SM 2120B
	Anly Batch: 680-125009	Date Analyzed		12/09/2008 1400			
Specific Conductance	3000		umhos/cm	5.0	5.0	1.0	SM 2510B
	Anly Batch: 680-125879	Date Analyzed		12/18/2008 1500			
Total Dissolved Solids	15000		mg/L	50	50	1.0	SM 2540C
	Anly Batch: 680-125075	Date Analyzed		12/11/2008 1305			

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**General Chemistry**

**Client Sample ID: Pond 1D**

Lab Sample ID: 680-42932-2  
 Client Matrix: Water

Date Sampled: 12/08/2008 1100  
 Date Received: 12/09/2008 0922

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	27		mg/L	1.3	5.0	5.0	300.0
	Anly Batch: 680-125531	Date Analyzed		12/15/2008 1920			
Fluoride	<0.25	U	mg/L	0.25	1.0	5.0	300.0
	Anly Batch: 680-125531	Date Analyzed		12/15/2008 1920			
Sulfate	62		mg/L	2.5	5.0	5.0	300.0
	Anly Batch: 680-125531	Date Analyzed		12/15/2008 1920			
Cyanide, Total	<0.0050	U	mg/L	0.0050	0.010	1.0	335.4
	Anly Batch: 680-125187	Date Analyzed		12/12/2008 1037			
	Prep Batch: 680-125004	Date Prepared:		12/11/2008 0700			
Nitrate as N	<0.025	U	mg/L	0.025	0.050	1.0	353.2
	Anly Batch: 680-124866	Date Analyzed		12/09/2008 1628			
Nitrate Nitrite as N	<0.025	U	mg/L	0.025	0.050	1.0	353.2
	Anly Batch: 680-124866	Date Analyzed		12/09/2008 1628			
Nitrite as N	<0.010	U	mg/L	0.010	0.050	1.0	353.2
	Anly Batch: 680-124863	Date Analyzed		12/09/2008 1628			
Methylene Blue Active Substances	<0.10	U	mg/l LAS	0.10	0.20	1.0	SM 5540C
	Anly Batch: 680-124890	Date Analyzed		12/10/2008 0755			

Analyte	Result	Qual	Units		Dil	Method
pH	7.88	Q	SU		1.0	150.1
	Anly Batch: 680-125115	Date Analyzed		12/11/2008 1324		

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Color	90		PCU	10	10	2.0	SM 2120B
	Anly Batch: 680-125009	Date Analyzed		12/09/2008 1400			
Specific Conductance	370		umhos/cm	5.0	5.0	1.0	SM 2510B
	Anly Batch: 680-126086	Date Analyzed		12/19/2008 1724			
Total Dissolved Solids	230		mg/L	5.0	5.0	1.0	SM 2540C
	Anly Batch: 680-125075	Date Analyzed		12/11/2008 1249			
Odor	<1.0	U	T.O.N.	1.0	1.0	1.0	SM 2150B
	Anly Batch: 680-125011	Date Analyzed		12/10/2008 1030			

**Analytical Data**

Client: Waste Management, Inc.

Job Number: 680-42932-1

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**General Chemistry**

**Client Sample ID: LTM 04**

Lab Sample ID: 680-42932-7

Date Sampled: 12/19/2008 0000

Client Matrix: Water

Date Received: 12/20/2008 2359

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Odor	260		T.O.N.	1.0	1.0	1.0	140.1
	Anly Batch: 660-72706		Date Analyzed	12/20/2008	1130		

## DATA REPORTING QUALIFIERS

Client: Waste Management, Inc.

Job Number: 680-42932-1

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
GC/MS VOA		
	J	Estimated value; value may not be accurate.
	U	Indicates that the compound was analyzed for but not detected.
	Q	Sample held beyond the accepted holding time.
GC/MS Semi VOA		
	J	Estimated value; value may not be accurate.
	U	Indicates that the compound was analyzed for but not detected.
HPLC		
	U	Indicates that the compound was analyzed for but not detected.
GC Semi VOA		
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Metals		
	U	Indicates that the compound was analyzed for but not detected.
	V	Indicates the analyte was detected in both the sample and the associated method blank.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

## DATA REPORTING QUALIFIERS

Client: Waste Management, Inc.

Job Number: 680-42932-1

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
General Chemistry		
	U	Indicates that the compound was analyzed for but not detected.
	Q	Sample held beyond the accepted holding time.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Biology		
	U	Indicates that the compound was analyzed for but not detected.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-125333**

**Method: 524.2**

**Preparation: N/A**

Lab Sample ID: MB 680-125333/27  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/12/2008 1327  
 Date Prepared: N/A

Analysis Batch: 680-125333  
 Prep Batch: N/A  
 Units: ug/L

Instrument ID: GC/MS Volatiles - U  
 Lab File ID: uq304.d  
 Initial Weight/Volume: 5 mL  
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
cis-1,2-Dichloroethene	<0.25	U	0.25	0.50
Xylenes, Total	<0.44	U	0.44	0.50
1,2,4-Trichlorobenzene	<0.38	U	0.38	0.50
Trichloroethene	<0.20	U	0.20	0.50
Trihalomethanes, Total	<0.16	U	0.16	0.50
Methylene Chloride	<0.21	U	0.21	0.50
1,2-Dichlorobenzene	<0.23	U	0.23	0.50
1,4-Dichlorobenzene	<0.17	U	0.17	0.50
Vinyl chloride	<0.29	U	0.29	0.50
1,1-Dichloroethene	<0.24	U	0.24	0.50
trans-1,2-Dichloroethene	<0.22	U	0.22	0.50
1,2-Dichloroethane	<0.19	U	0.19	0.50
1,1,1-Trichloroethane	<0.16	U	0.16	0.50
Carbon tetrachloride	<0.38	U	0.38	0.50
1,2-Dichloropropane	<0.22	U	0.22	0.50
1,1,2-Trichloroethane	<0.25	U	0.25	0.50
Tetrachloroethene	<0.22	U	0.22	0.50
Chlorobenzene	<0.19	U	0.19	0.50
Benzene	<0.19	U	0.19	0.50
Toluene	<0.21	U	0.21	0.50
Chloroform	<0.20	U	0.20	0.50
Ethylbenzene	<0.18	U	0.18	0.50
Dichlorobromomethane	<0.19	U	0.19	0.50
Styrene	<0.30	U	0.30	0.50
Bromoform	<0.17	U	0.17	0.50
Chlorodibromomethane	<0.16	U	0.16	0.50
Chloroethane	<0.36	U	0.36	1.0
Surrogate	% Rec	Acceptance Limits		
1,2-Dichlorobenzene-d4	85	70 - 130		
4-Bromofluorobenzene	89	70 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.



## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Lab Control Spike/  
Lab Control Spike Duplicate Recovery Report - Batch: 680-125333**

**Method: 524.2  
Preparation: N/A**

LCS Lab Sample ID: LCS 680-125333/25  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/12/2008 1207  
Date Prepared: N/A

Analysis Batch: 680-125333  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - U  
Lab File ID: uq302.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-125333/26  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/12/2008 1227  
Date Prepared: N/A

Analysis Batch: 680-125333  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - U  
Lab File ID: uq303.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
cis-1,2-Dichloroethene	97	97	70 - 130	0	30		
Xylenes, Total	110	103	70 - 130	7	30		
1,2,4-Trichlorobenzene	130	118	70 - 130	10	30		
Trichloroethene	125	121	70 - 130	4	30		
Methylene Chloride	98	91	70 - 130	7	30		
1,2-Dichlorobenzene	106	102	70 - 130	4	30		
1,4-Dichlorobenzene	110	102	70 - 130	7	30		
Vinyl chloride	98	91	70 - 130	7	30		
1,1-Dichloroethene	99	92	70 - 130	7	30		
trans-1,2-Dichloroethene	111	101	70 - 130	9	30		
1,2-Dichloroethane	108	101	70 - 130	7	30		
1,1,1-Trichloroethane	104	96	70 - 130	8	30		
Carbon tetrachloride	115	109	70 - 130	6	30		
1,2-Dichloropropane	114	109	70 - 130	5	30		
1,1,2-Trichloroethane	130	123	70 - 130	5	30		
Tetrachloroethene	103	95	70 - 130	8	30		
Chlorobenzene	108	103	70 - 130	5	30		
Benzene	115	103	70 - 130	11	30		
Toluene	110	105	70 - 130	4	30		
Chloroform	110	102	70 - 130	7	30		
Ethylbenzene	119	107	70 - 130	10	30		
Dichlorobromomethane	132	124	70 - 130	6	30	J	
Styrene	108	103	70 - 130	4	30		
Bromoform	121	114	70 - 130	6	30		
Chlorodibromomethane	126	121	70 - 130	4	30		
Chloroethane	88	87	70 - 130	2	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-125955**

**Method: 524.2**

**Preparation: N/A**

Lab Sample ID: MB 680-125955/28  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/18/2008 1704  
 Date Prepared: N/A

Analysis Batch: 680-125955  
 Prep Batch: N/A  
 Units: ug/L

Instrument ID: GC/MS Volatiles - U  
 Lab File ID: uq414.d  
 Initial Weight/Volume: 5 mL  
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
cis-1,2-Dichloroethene	<0.25	U	0.25	0.50
Xylenes, Total	<0.44	U	0.44	0.50
1,2,4-Trichlorobenzene	<0.38	U	0.38	0.50
Trichloroethene	<0.20	U	0.20	0.50
Trihalomethanes, Total	<0.16	U	0.16	0.50
Methylene Chloride	<0.21	U	0.21	0.50
1,2-Dichlorobenzene	<0.23	U	0.23	0.50
1,4-Dichlorobenzene	<0.17	U	0.17	0.50
Vinyl chloride	<0.29	U	0.29	0.50
1,1-Dichloroethene	<0.24	U	0.24	0.50
trans-1,2-Dichloroethene	<0.22	U	0.22	0.50
1,2-Dichloroethane	<0.19	U	0.19	0.50
1,1,1-Trichloroethane	<0.16	U	0.16	0.50
Carbon tetrachloride	<0.38	U	0.38	0.50
1,2-Dichloropropane	<0.22	U	0.22	0.50
1,1,2-Trichloroethane	<0.25	U	0.25	0.50
Tetrachloroethene	<0.22	U	0.22	0.50
Chlorobenzene	<0.19	U	0.19	0.50
Benzene	<0.19	U	0.19	0.50
Toluene	<0.21	U	0.21	0.50
Chloroform	<0.20	U	0.20	0.50
Ethylbenzene	<0.18	U	0.18	0.50
Dichlorobromomethane	<0.19	U	0.19	0.50
Styrene	<0.30	U	0.30	0.50
Bromoform	<0.17	U	0.17	0.50
Chlorodibromomethane	<0.16	U	0.16	0.50
Chloroethane	<0.36	U	0.36	1.0
Surrogate	% Rec	Acceptance Limits		
1,2-Dichlorobenzene-d4	83	70 - 130		
4-Bromofluorobenzene	89	70 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Lab Control Spike/  
Lab Control Spike Duplicate Recovery Report - Batch: 680-125955**

**Method: 524.2  
Preparation: N/A**

LCS Lab Sample ID: LCS 680-125955/26  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/18/2008 1544  
Date Prepared: N/A

Analysis Batch: 680-125955  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - U  
Lab File ID: uq412.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-125955/27  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/18/2008 1604  
Date Prepared: N/A

Analysis Batch: 680-125955  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - U  
Lab File ID: uq413.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
cis-1,2-Dichloroethene	95	90	70 - 130	5	30		
Xylenes, Total	104	103	70 - 130	1	30		
1,2,4-Trichlorobenzene	113	118	70 - 130	5	30		
Trichloroethene	121	121	70 - 130	0	30		
Methylene Chloride	96	92	70 - 130	4	30		
1,2-Dichlorobenzene	96	98	70 - 130	2	30		
1,4-Dichlorobenzene	103	105	70 - 130	2	30		
Vinyl chloride	93	95	70 - 130	2	30		
1,1-Dichloroethene	95	94	70 - 130	1	30		
trans-1,2-Dichloroethene	99	99	70 - 130	0	30		
1,2-Dichloroethane	106	108	70 - 130	1	30		
1,1,1-Trichloroethane	98	98	70 - 130	0	30		
Carbon tetrachloride	107	109	70 - 130	1	30		
1,2-Dichloropropane	107	105	70 - 130	1	30		
1,1,2-Trichloroethane	123	118	70 - 130	4	30		
Tetrachloroethene	92	95	70 - 130	3	30		
Chlorobenzene	101	102	70 - 130	1	30		
Benzene	108	105	70 - 130	4	30		
Toluene	104	100	70 - 130	4	30		
Chloroform	103	103	70 - 130	0	30		
Ethylbenzene	113	113	70 - 130	0	30		
Dichlorobromomethane	122	131	70 - 130	7	30		J
Styrene	102	102	70 - 130	0	30		
Bromoform	110	107	70 - 130	2	30		
Chlorodibromomethane	116	116	70 - 130	0	30		
Chloroethane	83	86	70 - 130	4	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-125966**

**Method: 524.2**

**Preparation: N/A**

Lab Sample ID: MB 680-125966/25  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/19/2008 0526  
 Date Prepared: N/A

Analysis Batch: 680-125966  
 Prep Batch: N/A  
 Units: ug/L

Instrument ID: GC/MS Volatiles - U  
 Lab File ID: uq424.d  
 Initial Weight/Volume: 5 mL  
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
cis-1,2-Dichloroethene	<0.25	U	0.25	0.50
Xylenes, Total	<0.44	U	0.44	0.50
1,2,4-Trichlorobenzene	<0.38	U	0.38	0.50
Trichloroethene	<0.20	U	0.20	0.50
Trihalomethanes, Total	<0.16	U	0.16	0.50
Methylene Chloride	<0.21	U	0.21	0.50
1,2-Dichlorobenzene	<0.23	U	0.23	0.50
1,4-Dichlorobenzene	<0.17	U	0.17	0.50
Vinyl chloride	<0.29	U	0.29	0.50
1,1-Dichloroethene	<0.24	U	0.24	0.50
trans-1,2-Dichloroethene	<0.22	U	0.22	0.50
1,2-Dichloroethane	<0.19	U	0.19	0.50
1,1,1-Trichloroethane	<0.16	U	0.16	0.50
Carbon tetrachloride	<0.38	U	0.38	0.50
1,2-Dichloropropane	<0.22	U	0.22	0.50
1,1,2-Trichloroethane	<0.25	U	0.25	0.50
Tetrachloroethene	<0.22	U	0.22	0.50
Chlorobenzene	<0.19	U	0.19	0.50
Benzene	<0.19	U	0.19	0.50
Toluene	<0.21	U	0.21	0.50
Chloroform	<0.20	U	0.20	0.50
Ethylbenzene	<0.18	U	0.18	0.50
Dichlorobromomethane	<0.19	U	0.19	0.50
Styrene	<0.30	U	0.30	0.50
Bromoform	<0.17	U	0.17	0.50
Chlorodibromomethane	<0.16	U	0.16	0.50
Chloroethane	<0.36	U	0.36	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	76	70 - 130
4-Bromofluorobenzene	84	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Lab Control Spike/  
Lab Control Spike Duplicate Recovery Report - Batch: 680-125966**

**Method: 524.2  
Preparation: N/A**

LCS Lab Sample ID: LCS 680-125966/23  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/19/2008 0406  
Date Prepared: N/A

Analysis Batch: 680-125966  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - U  
Lab File ID: uq422.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-125966/24  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/19/2008 0426  
Date Prepared: N/A

Analysis Batch: 680-125966  
Prep Batch: N/A  
Units: ug/L

Instrument ID: GC/MS Volatiles - U  
Lab File ID: uq423.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
cis-1,2-Dichloroethene	95	94	70 - 130	2	30		
Xylenes, Total	103	104	70 - 130	0	30		
1,2,4-Trichlorobenzene	104	109	70 - 130	5	30		
Trichloroethene	125	125	70 - 130	0	30		
Methylene Chloride	94	98	70 - 130	4	30		
1,2-Dichlorobenzene	98	96	70 - 130	2	30		
1,4-Dichlorobenzene	96	94	70 - 130	2	30		
Vinyl chloride	98	98	70 - 130	0	30		
1,1-Dichloroethene	98	95	70 - 130	3	30		
trans-1,2-Dichloroethene	100	100	70 - 130	0	30		
1,2-Dichloroethane	112	107	70 - 130	5	30		
1,1,1-Trichloroethane	101	100	70 - 130	1	30		
Carbon tetrachloride	109	104	70 - 130	5	30		
1,2-Dichloropropane	109	110	70 - 130	1	30		
1,1,2-Trichloroethane	122	120	70 - 130	2	30		
Tetrachloroethene	98	98	70 - 130	0	30		
Chlorobenzene	103	101	70 - 130	2	30		
Benzene	113	110	70 - 130	2	30		
Toluene	100	101	70 - 130	1	30		
Chloroform	107	104	70 - 130	3	30		
Ethylbenzene	113	114	70 - 130	0	30		
Dichlorobromomethane	130	127	70 - 130	3	30		
Styrene	101	101	70 - 130	0	30		
Bromoform	104	99	70 - 130	5	30		
Chlorodibromomethane	112	111	70 - 130	1	30		
Chloroethane	91	90	70 - 130	1	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Lab Control Spike/  
Lab Control Spike Duplicate Recovery Report - Batch: 680-125154**

**Method: 525.2  
Preparation: 525.2**

LCS Lab Sample ID: LCS 680-125154/22-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/15/2008 2121  
Date Prepared: 12/12/2008 0814

Analysis Batch: 680-125513  
Prep Batch: 680-125154  
Units: ug/L

Instrument ID: GC/MS SemiVoa - R  
Lab File ID: R620.D  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

LCSD Lab Sample ID: LCSD 680-125154/23-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/15/2008 2141  
Date Prepared: 12/12/2008 0814

Analysis Batch: 680-125513  
Prep Batch: 680-125154  
Units: ug/L

Instrument ID: GC/MS SemiVoa - R  
Lab File ID: R621.D  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Bis(2-ethylhexyl) phthalate	84	81	70 - 130	4	30		
Di(2-ethylhexyl)adipate	88	85	70 - 130	4	30		
Heptachlor	83	83	70 - 130	0	30		
Heptachlor epoxide	90	88	70 - 130	3	30		
Endrin	90	81	70 - 130	10	30		
Hexachlorobenzene	91	91	70 - 130	0	30		
Hexachlorocyclopentadiene	115	110	70 - 130	4	30		
gamma-BHC (Lindane)	88	86	70 - 130	2	30		
Methoxychlor	88	87	70 - 130	0	30		
Simazine	90	87	70 - 130	4	30		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
Triphenylphosphate	95		93	70 - 130			

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-124876**

Lab Sample ID: MB 680-124876/9-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/16/2008 0413  
 Date Prepared: 12/10/2008 0826

Analysis Batch: 680-125495  
 Prep Batch: 680-124876  
 Units: ug/L

**Method: 548.1  
 Preparation: 548.1**

Instrument ID: GC/MS SemiVoa - R  
 Lab File ID: R633.D  
 Initial Weight/Volume: 100 mL  
 Final Weight/Volume: 1 mL  
 Injection Volume:

Analyte	Result	Qual	MDL	RL
Endothall	<2.6	U	2.6	10

**Lab Control Spike/  
 Lab Control Spike Duplicate Recovery Report - Batch: 680-124876**

**Method: 548.1  
 Preparation: 548.1**

LCS Lab Sample ID: LCS 680-124876/10-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/16/2008 0350  
 Date Prepared: 12/10/2008 0826

Analysis Batch: 680-125495  
 Prep Batch: 680-124876  
 Units: ug/L

Instrument ID: GC/MS SemiVoa - R  
 Lab File ID: R631.D  
 Initial Weight/Volume: 100 mL  
 Final Weight/Volume: 1 mL  
 Injection Volume:

LCSD Lab Sample ID: LCSD 680-124876/11-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/16/2008 0401  
 Date Prepared: 12/10/2008 0826

Analysis Batch: 680-125495  
 Prep Batch: 680-124876  
 Units: ug/L

Instrument ID: GC/MS SemiVoa - R  
 Lab File ID: R632.D  
 Initial Weight/Volume: 100 mL  
 Final Weight/Volume: 1 mL  
 Injection Volume:

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Endothall	83	81	60 - 140	2	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-125903**

**Method: 531.1**  
**Preparation: N/A**

Lab Sample ID: MB 680-125903/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/18/2008 1254  
Date Prepared: N/A

Analysis Batch: 680-125903  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HPLC - J  
Lab File ID: 1J121805.D  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 1.0 mL  
Injection Volume: 4 uL

Analyte	Result	Qual	MDL	RL
Oxamyl	<0.42	U	0.42	2.5
Carbofuran	<0.16	U	0.16	2.5
Aldicarb	<0.38	U	0.38	2.5
Aldicarb sulfone	<0.37	U	0.37	2.5
Aldicarb sulfoxide	<0.51	U	0.51	2.5

**Lab Control Spike/  
Lab Control Spike Duplicate Recovery Report - Batch: 680-125903**

**Method: 531.1**  
**Preparation: N/A**

LCS Lab Sample ID: LCS 680-125903/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/18/2008 1333  
Date Prepared: N/A

Analysis Batch: 680-125903  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HPLC - J  
Lab File ID: 1J121806.D  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 10 mL  
Injection Volume: 4 uL

LCSD Lab Sample ID: LCSD 680-125903/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/18/2008 1412  
Date Prepared: N/A

Analysis Batch: 680-125903  
Prep Batch: N/A  
Units: ug/L

Instrument ID: HPLC - J  
Lab File ID: 1J121807.D  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 10 mL  
Injection Volume: 4 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Oxamyl	96	89	80 - 120	8	20		
Carbofuran	90	83	80 - 120	8	20		
Aldicarb	90	85	80 - 120	6	20		
Aldicarb sulfone	90	84	80 - 120	7	20		
Aldicarb sulfoxide	92	87	80 - 120	6	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.



**Quality Control Results**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-126103**

Lab Sample ID: MB 680-126103/1  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/22/2008 1409  
 Date Prepared: N/A

Analysis Batch: 680-126103  
 Prep Batch: N/A  
 Units: ug/L

**Method: 547  
 Preparation: N/A**

Instrument ID: HPLC - K  
 Lab File ID: 1K122212.D  
 Initial Weight/Volume:  
 Final Weight/Volume: 1.0 mL  
 Injection Volume: 100 uL

Analyte	Result	Qual	MDL	RL
Glyphosate	<2.0	U	2.0	25

**Lab Control Spike/  
 Lab Control Spike Duplicate Recovery Report - Batch: 680-126103**

LCS Lab Sample ID: LCS 680-126103/2  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/22/2008 1427  
 Date Prepared: N/A

Analysis Batch: 680-126103  
 Prep Batch: N/A  
 Units: ug/L

**Method: 547  
 Preparation: N/A**

Instrument ID: HPLC - K  
 Lab File ID: 1K122213.D  
 Initial Weight/Volume:  
 Final Weight/Volume: 10 mL  
 Injection Volume: 100 uL

LCSD Lab Sample ID: LCSD 680-126103/3  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/22/2008 1445  
 Date Prepared: N/A

Analysis Batch: 680-126103  
 Prep Batch: N/A  
 Units: ug/L

Instrument ID: HPLC - K  
 Lab File ID: 1K122214.D  
 Initial Weight/Volume:  
 Final Weight/Volume: 10 mL  
 Injection Volume: 100 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Glyphosate	105	108	70 - 130	3	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

**Quality Control Results**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-124990**

Lab Sample ID: MB 680-124990/12-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/11/2008 2018  
 Date Prepared: 12/10/2008 1846

Analysis Batch: 680-125240  
 Prep Batch: 680-124990  
 Units: ug/L

**Method: 549.2  
 Preparation: 549.2**

Instrument ID: HPCL - M  
 Lab File ID: 1M121106.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 10 mL  
 Injection Volume: 20 uL

Analyte	Result	Qual	MDL	RL
Diquat	<0.14	U	0.14	5.0

**Lab Control Spike/  
 Lab Control Spike Duplicate Recovery Report - Batch: 680-124990**

LCS Lab Sample ID: LCS 680-124990/13-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/11/2008 2028  
 Date Prepared: 12/10/2008 1846

Analysis Batch: 680-125240  
 Prep Batch: 680-124990  
 Units: ug/L

**Method: 549.2  
 Preparation: 549.2**

Instrument ID: HPCL - M  
 Lab File ID: 1M121107.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 10 mL  
 Injection Volume: 20 uL

LCSD Lab Sample ID: LCSD 680-124990/14-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/11/2008 2038  
 Date Prepared: 12/10/2008 1846

Analysis Batch: 680-125240  
 Prep Batch: 680-124990  
 Units: ug/L

Instrument ID: HPCL - M  
 Lab File ID: 1M121108.D  
 Initial Weight/Volume: 250 mL  
 Final Weight/Volume: 10 mL  
 Injection Volume: 20 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diquat	95	93	70 - 130	3	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-125332**

**Method: 504.1  
Preparation: 504.1**

Lab Sample ID: MB 680-125332/4-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/15/2008 1152  
Date Prepared: 12/15/2008 0905

Analysis Batch: 680-125493  
Prep Batch: 680-125332  
Units: ug/L

Instrument ID: GC SemiVolatiles - X  
Lab File ID: xl15005.d  
Initial Weight/Volume: 35.06 mL  
Final Weight/Volume: 2.0 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
1,2-Dibromo-3-Chloropropane	<0.0035	U	0.0035	0.020
Ethylene Dibromide	<0.0042	U	0.0042	0.020
Surrogate	% Rec	Acceptance Limits		
1,2,3-Trichloropropane-(Surr)	93	70 - 130		

**Lab Control Spike/  
Lab Control Spike Duplicate Recovery Report - Batch: 680-125332**

**Method: 504.1  
Preparation: 504.1**

LCS Lab Sample ID: LCS 680-125332/5-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/15/2008 1202  
Date Prepared: 12/15/2008 0905

Analysis Batch: 680-125493  
Prep Batch: 680-125332  
Units: ug/L

Instrument ID: GC SemiVolatiles - X  
Lab File ID: xl15006.d  
Initial Weight/Volume: 35.21 mL  
Final Weight/Volume: 2.0 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 680-125332/6-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/15/2008 1212  
Date Prepared: 12/15/2008 0905

Analysis Batch: 680-125493  
Prep Batch: 680-125332  
Units: ug/L

Instrument ID: GC SemiVolatiles - X  
Lab File ID: xl15007.d  
Initial Weight/Volume: 34.37 mL  
Final Weight/Volume: 2.0 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,2-Dibromo-3-Chloropropane	99	88	70 - 130	10	30		
Ethylene Dibromide	85	77	70 - 130	8	30		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
1,2,3-Trichloropropane-(Surr)	117		97	70 - 130			

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-124861**

**Method: 508**

**Preparation: 508**

Lab Sample ID: MB 680-124861/11-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/10/2008 1856  
 Date Prepared: 12/09/2008 1810

Analysis Batch: 680-125071  
 Prep Batch: 680-124861  
 Units: ug/L

Instrument ID: GC SemiVolatiles - M  
 Lab File ID: ml10014.d  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 5 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Aldrin	<0.0088	U	0.0088	0.025
Chlordane (technical)	<0.026	U	0.026	0.25
PCB-1016	<0.067	U	0.067	0.50
PCB-1221	<0.096	U	0.096	0.50
PCB-1232	<0.052	U	0.052	0.50
PCB-1242	<0.086	U	0.086	0.50
PCB-1248	<0.052	U	0.052	0.50
Dieldrin	<0.0058	U	0.0058	0.050
PCB-1254	<0.057	U	0.057	0.50
PCB-1260	<0.046	U	0.046	0.50
Toxaphene	<0.25	U	0.25	2.5
Polychlorinated biphenyls, Total	<0.096	U	0.096	0.50
Surrogate	% Rec		Acceptance Limits	
DCB Decachlorobiphenyl	88		70 - 130	
Tetrachloro-m-xylene	92		70 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Lab Control Spike/  
Lab Control Spike Duplicate Recovery Report - Batch: 680-124861**

**Method: 508  
Preparation: 508**

LCS Lab Sample ID: LCS 680-124861/12-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/10/2008 1916  
Date Prepared: 12/09/2008 1810

Analysis Batch: 680-125071  
Prep Batch: 680-124861  
Units: ug/L

Instrument ID: GC SemiVolatiles - M  
Lab File ID: ml10015.d  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 5 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 680-124861/13-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/10/2008 1935  
Date Prepared: 12/09/2008 1810

Analysis Batch: 680-125071  
Prep Batch: 680-124861  
Units: ug/L

Instrument ID: GC SemiVolatiles - M  
Lab File ID: ml10016.d  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 5 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Aldrin	87	78	56 - 116	12	20		
Dieldrin	92	84	57 - 117	9	20		

**Lab Control Spike/  
Lab Control Spike Duplicate Recovery Report - Batch: 680-124861**

**Method: 508  
Preparation: 508**

LCS Lab Sample ID: LCS 680-124861/14-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/10/2008 1955  
Date Prepared: 12/09/2008 1810

Analysis Batch: 680-125071  
Prep Batch: 680-124861  
Units: ug/L

Instrument ID: GC SemiVolatiles - M  
Lab File ID: ml10017.d  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 5 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 680-124861/15-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/10/2008 2014  
Date Prepared: 12/09/2008 1810

Analysis Batch: 680-125071  
Prep Batch: 680-124861  
Units: ug/L

Instrument ID: GC SemiVolatiles - M  
Lab File ID: ml10018.d  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 5 mL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
PCB-1016	81	78	70 - 130	3	20		
PCB-1260	84	92	70 - 130	9	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

### Method Blank - Batch: 680-125711

**Method: 515.1**

**Preparation: 515.1**

Lab Sample ID: MB 680-125711/16-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/22/2008 1824  
 Date Prepared: 12/18/2008 0827

Analysis Batch: 680-126174  
 Prep Batch: 680-125711  
 Units: ug/L

Instrument ID: GC SemiVolatiles - S  
 Lab File ID: sl22028.d  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 10 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
2,4-D	<0.046	U	0.046	0.50
Dalapon	<0.057	U	0.057	10
Dinoseb	<0.052	U	0.052	3.0
Pentachlorophenol	<0.025	U	0.025	1.0
Picloram	<0.10	U	0.10	0.50
Silvex (2,4,5-TP)	<0.046	U	0.046	0.50

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	114	70 - 130

### Lab Control Spike - Batch: 680-125711

**Method: 515.1**

**Preparation: 515.1**

Lab Sample ID: LCS 680-125711/17-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/22/2008 1842  
 Date Prepared: 12/18/2008 0827

Analysis Batch: 680-126174  
 Prep Batch: 680-125711  
 Units: ug/L

Instrument ID: GC SemiVolatiles - S  
 Lab File ID: sl22029.d  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 10 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4-D	2.00	1.85	92	49 - 214	
Dalapon	2.00	1.94	97	40 - 160	I
Dinoseb	2.00	1.29	65	10 - 121	I
Pentachlorophenol	1.00	0.629	63	36 - 223	I
Picloram	2.00	1.34	67	45 - 138	
Silvex (2,4,5-TP)	2.00	1.42	71	42 - 226	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-125397**

**Method: 200.7 Rev 4.4**  
**Preparation: 200.7**

Lab Sample ID: MB 680-125397/21-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/19/2008 0216  
Date Prepared: 12/15/2008 1241

Analysis Batch: 680-125925  
Prep Batch: 680-125397  
Units: ug/L

Instrument ID: ICP/AES - D  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Chromium	<1.3	U	1.3	10
Iron	<33	U	33	50
Sodium	<410	U	410	1000
Nickel	<1.6	U	1.6	40

**Lab Control Spike - Batch: 680-125397**

**Method: 200.7 Rev 4.4**  
**Preparation: 200.7**

Lab Sample ID: LCS 680-125397/22-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/19/2008 1113  
Date Prepared: 12/15/2008 1241

Analysis Batch: 680-125925  
Prep Batch: 680-125397  
Units: ug/L

Instrument ID: ICP/AES - D  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chromium	200	209	105	85 - 115	
Iron	1000	1020	102	85 - 115	
Sodium	5000	5630	113	85 - 115	
Nickel	500	520	104	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-125144**

Lab Sample ID: MB 680-125144/6-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/13/2008 2019  
 Date Prepared: 12/11/2008 1719

Analysis Batch: 680-125485  
 Prep Batch: 680-125144  
 Units: ug/L

**Method: 200.8  
 Preparation: 200.8**

Instrument ID: ICP MS - A  
 Lab File ID: N/A  
 Initial Weight/Volume: 50 mL  
 Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Aluminum	<15	U	15	50
Arsenic	0.55	I	0.38	2.5
Barium	<2.0	U	2.0	5.0
Beryllium	<0.060	U	0.060	0.50
Cadmium	<0.092	U	0.092	0.50
Copper	<1.2	U	1.2	5.0
Lead	<0.12	U	0.12	1.5
Mercury	<0.22	U	0.22	0.50
Selenium	<0.60	U	0.60	2.5
Silver	0.11	I	0.090	1.0
Thallium	<0.55	U	0.55	1.0
Zinc	<6.0	U	6.0	20

**Method Blank - Batch: 680-125144**

Lab Sample ID: MB 680-125144/6-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/15/2008 1814  
 Date Prepared: 12/11/2008 1719

Analysis Batch: 680-125491  
 Prep Batch: 680-125144  
 Units: ug/L

**Method: 200.8  
 Preparation: 200.8**

Instrument ID: ICP MS - A  
 Lab File ID: N/A  
 Initial Weight/Volume: 50 mL  
 Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Antimony	<0.36	U	0.36	2.5
Manganese	<0.50	U	0.50	5.0

Calculations are performed before rounding to avoid round-off errors in calculated results.



## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

### Lab Control Spike - Batch: 680-125144

Method: 200.8

Preparation: 200.8

Lab Sample ID: LCS 680-125144/7-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/13/2008 2026  
Date Prepared: 12/11/2008 1719

Analysis Batch: 680-125485  
Prep Batch: 680-125144  
Units: ug/L

Instrument ID: ICP MS - A  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	5000	5360	107	85 - 115	
Arsenic	100	106	106	85 - 115	
Barium	100	103	103	85 - 115	
Beryllium	50.0	48.1	96	85 - 115	
Cadmium	50.0	52.5	105	85 - 115	
Copper	100	114	114	85 - 115	
Lead	50.0	52.8	106	85 - 115	
Mercury	5.00	5.12	102	85 - 115	
Selenium	100	106	106	85 - 115	
Silver	50.0	55.2	110	85 - 115	
Thallium	40.0	42.5	106	85 - 115	
Zinc	100	106	106	85 - 115	

### Lab Control Spike - Batch: 680-125144

Method: 200.8

Preparation: 200.8

Lab Sample ID: LCS 680-125144/7-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/15/2008 1821  
Date Prepared: 12/11/2008 1719

Analysis Batch: 680-125491  
Prep Batch: 680-125144  
Units: ug/L

Instrument ID: ICP MS - A  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	50.0	49.2	98	85 - 115	
Manganese	500	500	100	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

### Method Blank - Batch: 660-72706

Lab Sample ID: MB 660-72706/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/20/2008 1130  
Date Prepared: N/A

Analysis Batch: 660-72706  
Prep Batch: N/A  
Units: T.O.N.

### Method: 140.1 Preparation: N/A

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 200 mL

Analyte	Result	Qual	RL	RL
Odor	<1.0	U	1.0	1.0

### Duplicate - Batch: 660-72706

Lab Sample ID: 680-42932-7  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/20/2008 1130  
Date Prepared: N/A

Analysis Batch: 660-72706  
Prep Batch: N/A  
Units: T.O.N.

### Method: 140.1 Preparation: N/A

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 200 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Odor	260	256	0		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

### Lab Control Spike - Batch: 680-125044

Method: 150.1

Preparation: N/A

Lab Sample ID: LCS 680-125044/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/09/2008 1808  
Date Prepared: N/A

Analysis Batch: 680-125044  
Prep Batch: N/A  
Units: SU

Instrument ID: PC Titrate - Mantech1  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	7.00	7.020	100	63 - 158	

Calculations are performed before rounding to avoid round-off errors in calculated results.

**Quality Control Results**

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Lab Control Spike - Batch: 680-125115**

**Method: 150.1**  
**Preparation: N/A**

Lab Sample ID: LCS 680-125115/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/11/2008 1321  
Date Prepared: N/A

Analysis Batch: 680-125115  
Prep Batch: N/A  
Units: SU

Instrument ID: PC Titrate - Mantech1  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 25 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	7.00	7.030	100	63 - 158	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-125531**

**Method: 300.0**  
**Preparation: N/A**

Lab Sample ID: MB 680-125531/2  
Client Matrix: Water  
Dilution: 5.0  
Date Analyzed: 12/15/2008 1448  
Date Prepared: N/A

Analysis Batch: 680-125531  
Prep Batch: N/A  
Units: mg/L

Instrument ID: ICCS200 - G  
Lab File ID: 0015.d  
Initial Weight/Volume: 1 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Chloride	<1.3	U	1.3	5.0
Fluoride	<0.25	U	0.25	1.0
Sulfate	<2.5	U	2.5	5.0

**Lab Control Spike - Batch: 680-125531**

**Method: 300.0**  
**Preparation: N/A**

Lab Sample ID: LCS 680-125531/3  
Client Matrix: Water  
Dilution: 5.0  
Date Analyzed: 12/15/2008 1500  
Date Prepared: N/A

Analysis Batch: 680-125531  
Prep Batch: N/A  
Units: mg/L

Instrument ID: ICCS200 - G  
Lab File ID: 0016.d  
Initial Weight/Volume: 1 mL  
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	50.0	49.7	99	90 - 110	
Fluoride	10.0	10.3	103	90 - 110	
Sulfate	50.0	52.4	105	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

### Method Blank - Batch: 680-125771

**Method: 300.0**  
**Preparation: N/A**

Lab Sample ID: MB 680-125771/2  
Client Matrix: Water  
Dilution: 5.0  
Date Analyzed: 12/17/2008 1001  
Date Prepared: N/A

Analysis Batch: 680-125771  
Prep Batch: N/A  
Units: mg/L

Instrument ID: ICCS200 - G  
Lab File ID: 0005.d  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Chloride	<1.3	U	1.3	5.0
Fluoride	<0.25	U	0.25	1.0
Sulfate	<2.5	U	2.5	5.0

### Lab Control Spike - Batch: 680-125771

**Method: 300.0**  
**Preparation: N/A**

Lab Sample ID: LCS 680-125771/3  
Client Matrix: Water  
Dilution: 5.0  
Date Analyzed: 12/17/2008 1014  
Date Prepared: N/A

Analysis Batch: 680-125771  
Prep Batch: N/A  
Units: mg/L

Instrument ID: ICCS200 - G  
Lab File ID: 0006.d  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	50.0	49.5	99	90 - 110	
Fluoride	10.0	10.1	101	90 - 110	
Sulfate	50.0	50.7	101	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-125004**

Lab Sample ID: MB 680-125004/1-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/12/2008 1037  
 Date Prepared: 12/11/2008 0700

Analysis Batch: 680-125187  
 Prep Batch: 680-125004  
 Units: mg/L

**Method: 335.4  
 Preparation: Distill/CN**

Instrument ID: No Equipment Assigned  
 Lab File ID: N/A  
 Initial Weight/Volume: 50 mL  
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Cyanide, Total	<0.0050	U	0.0050	0.010

**Lab Control Spike/  
 Lab Control Spike Duplicate Recovery Report - Batch: 680-125004**

**Method: 335.4  
 Preparation: Distill/CN**

LCS Lab Sample ID: LCS 680-125004/2-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/12/2008 1037  
 Date Prepared: 12/11/2008 0700

Analysis Batch: 680-125187  
 Prep Batch: 680-125004  
 Units: mg/L

Instrument ID: No Equipment Assigned  
 Lab File ID: N/A  
 Initial Weight/Volume: 50 mL  
 Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 680-125004/3-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/12/2008 1037  
 Date Prepared: 12/11/2008 0700

Analysis Batch: 680-125187  
 Prep Batch: 680-125004  
 Units: mg/L

Instrument ID: No Equipment Assigned  
 Lab File ID: N/A  
 Initial Weight/Volume: 50 mL  
 Final Weight/Volume: 50 mL

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Cyanide, Total	98	93	90 - 110	5	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

### Method Blank - Batch: 680-124863

Lab Sample ID: MB 680-124863/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/09/2008 1628  
Date Prepared: N/A

Analysis Batch: 680-124863  
Prep Batch: N/A  
Units: mg/L

### Method: 353.2 Preparation: N/A

Instrument ID: KoneLab2  
Lab File ID: N/A  
Initial Weight/Volume: 2 mL  
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	RL
Nitrite as N	<0.010	U	0.010	0.050

### Lab Control Spike - Batch: 680-124863

Lab Sample ID: LCS 680-124863/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/09/2008 1628  
Date Prepared: N/A

Analysis Batch: 680-124863  
Prep Batch: N/A  
Units: mg/L

### Method: 353.2 Preparation: N/A

Instrument ID: KoneLab2  
Lab File ID: N/A  
Initial Weight/Volume: 2 mL  
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrite as N	1.00	1.02	102	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.



## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

### Method Blank - Batch: 680-124866

**Method: 353.2**  
**Preparation: N/A**

Lab Sample ID: MB 680-124866/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/09/2008 1502  
Date Prepared: N/A

Analysis Batch: 680-124866  
Prep Batch: N/A  
Units: mg/L

Instrument ID: KoneLab2  
Lab File ID: N/A  
Initial Weight/Volume: 2 mL  
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	RL
Nitrate as N	<0.025	U	0.025	0.050
Nitrate Nitrite as N	<0.025	U	0.025	0.050

### Lab Control Spike - Batch: 680-124866

**Method: 353.2**  
**Preparation: N/A**

Lab Sample ID: LCS 680-124866/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/09/2008 1502  
Date Prepared: N/A

Analysis Batch: 680-124866  
Prep Batch: N/A  
Units: mg/L

Instrument ID: KoneLab2  
Lab File ID: N/A  
Initial Weight/Volume: 2 mL  
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	1.00	1.07	107	90 - 110	
Nitrate Nitrite as N	1.00	1.07	107	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

### Method Blank - Batch: 680-125009

Lab Sample ID: MB 680-125009/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/09/2008 1400  
Date Prepared: N/A

Analysis Batch: 680-125009  
Prep Batch: N/A  
Units: PCU

### Method: SM 2120B Preparation: N/A

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL	RL
Color	<5.0	U	5.0	5.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

### Method Blank - Batch: 680-125011

Method: SM 2150B

Preparation: N/A

Lab Sample ID: MB 680-125011/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/10/2008 1030  
Date Prepared: N/A

Analysis Batch: 680-125011  
Prep Batch: N/A  
Units: T.O.N.

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Odor	<1.0	U	1.0	1.0

### Duplicate - Batch: 680-125011

Method: SM 2150B

Preparation: N/A

Lab Sample ID: 680-42932-2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/10/2008 1030  
Date Prepared: N/A

Analysis Batch: 680-125011  
Prep Batch: N/A  
Units: T.O.N.

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 1.0 mL  
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Odor	<1.0 U	<1.0	NC		U

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-125879**

**Method: SM 2510B**  
**Preparation: N/A**

Lab Sample ID: MB 680-125879/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/18/2008 1500  
Date Prepared: N/A

Analysis Batch: 680-125879  
Prep Batch: N/A  
Units: umhos/cm

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Specific Conductance	<5.0	U	5.0	5.0

**Lab Control Spike - Batch: 680-125879**

**Method: SM 2510B**  
**Preparation: N/A**

Lab Sample ID: LCS 680-125879/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/18/2008 1500  
Date Prepared: N/A

Analysis Batch: 680-125879  
Prep Batch: N/A  
Units: umhos/cm

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Specific Conductance	1000	1000	100	90 - 110	

**Duplicate - Batch: 680-125879**

**Method: SM 2510B**  
**Preparation: N/A**

Lab Sample ID: 680-42932-2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/18/2008 1500  
Date Prepared: N/A

Analysis Batch: 680-125879  
Prep Batch: N/A  
Units: umhos/cm

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Specific Conductance	379	377	1	10	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-126086**

**Method: SM 2510B**  
**Preparation: N/A**

Lab Sample ID: MB 680-126086/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/19/2008 1724  
Date Prepared: N/A

Analysis Batch: 680-126086  
Prep Batch: N/A  
Units: umhos/cm

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Specific Conductance	<5.0	U	5.0	5.0

**Lab Control Spike - Batch: 680-126086**

**Method: SM 2510B**  
**Preparation: N/A**

Lab Sample ID: LCS 680-126086/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/19/2008 1724  
Date Prepared: N/A

Analysis Batch: 680-126086  
Prep Batch: N/A  
Units: umhos/cm

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Specific Conductance	1000	999	100	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

### Method Blank - Batch: 680-125075

Method: SM 2540C

Preparation: N/A

Lab Sample ID: MB 680-125075/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/11/2008 1248  
Date Prepared: N/A

Analysis Batch: 680-125075  
Prep Batch: N/A  
Units: mg/L

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 100 mL  
Final Weight/Volume: 100 mL

Analyte	Result	Qual	RL	RL
Total Dissolved Solids	<5.0	U	5.0	5.0

### Lab Control Spike - Batch: 680-125075

Method: SM 2540C

Preparation: N/A

Lab Sample ID: LCS 680-125075/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/11/2008 1249  
Date Prepared: N/A

Analysis Batch: 680-125075  
Prep Batch: N/A  
Units: mg/L

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 100 mL  
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Dissolved Solids	218	206	94	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

**Method Blank - Batch: 680-124890**

**Method: SM 5540C**  
**Preparation: N/A**

Lab Sample ID: MB 680-124890/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/10/2008 0755  
Date Prepared: N/A

Analysis Batch: 680-124890  
Prep Batch: N/A  
Units: mg/l LAS MW 340

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 100 mL  
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	RL
Methylene Blue Active Substances	<0.10	U	0.10	0.20

**Lab Control Spike/  
Lab Control Spike Duplicate Recovery Report - Batch: 680-124890**

**Method: SM 5540C**  
**Preparation: N/A**

LCS Lab Sample ID: LCS 680-124890/4  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/10/2008 0755  
Date Prepared: N/A

Analysis Batch: 680-124890  
Prep Batch: N/A  
Units: mg/l LAS MW 340

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 100 mL  
Final Weight/Volume: 100 mL

LCSD Lab Sample ID: LCSD 680-124890/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/10/2008 0755  
Date Prepared: N/A

Analysis Batch: 680-124890  
Prep Batch: N/A  
Units: mg/l LAS MW 340

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 100 mL  
Final Weight/Volume: 100 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methylene Blue Active Substances	84	96	70 - 130	13	15		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Waste Management, Inc.

Job Number: 680-42932-1

### Method Blank - Batch: 680-126224

Lab Sample ID: MB 680-126224/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/18/2008 1634  
Date Prepared: N/A

Analysis Batch: 680-126224  
Prep Batch: N/A  
Units: CFU/100mL

### Method: SM 9222B Preparation: N/A

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 100 mL  
Final Weight/Volume: 100 mL  
Injection Volume:

Analyte	Result	Qual	RL	RL
Coliform, Total	<1.0	U	1.0	1.0
Total Coliform Count	<1.0	U	1.0	1.0
Non-Coliform Growth	<1.0	U	1.0	1.0

Calculations are performed before rounding to avoid round-off errors in calculated results.





ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

**TestAmerica Savannah**  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:  
Fax:

PROJECT REFERENCE <b>SWAMP INJECTION PERMIT</b>		PROJECT NO.	PROJECT LOCATION (STATE)	MATRIX TYPE	REQUIRED ANALYSIS										PAGE <b>2</b>	OF <b>2</b>				
TAL (LAB) PROJECT MANAGER		P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)														STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____	
CLIENT (SITE) PM		CLIENT PHONE	CLIENT FAX																EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____
CLIENT NAME <b>OKEECHOBEE LANDFILL</b>		CLIENT E-MAIL																	NUMBER OF COOLERS SUBMITTED PER SHIPMENT: <b>1</b>	
CLIENT ADDRESS		COMPANY CONTRACTING THIS WORK (if applicable)																		
SAMPLE		SAMPLE IDENTIFICATION			NUMBER OF CONTAINERS SUBMITTED										REMARKS					
DATE	TIME																			
<b>12/8/08</b>	<b>0900</b>	<b>LTMO+</b>			<input checked="" type="checkbox"/>															
<b>12/8/08</b>	<b>1100</b>	<b>PONDID</b>			<input checked="" type="checkbox"/>															

RELINQUISHED BY: (SIGNATURE) <i>Ben Ruffin</i>	DATE <b>12/8/08</b>	TIME <b>1700</b>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>				DATE <b>12/09/08</b>	TIME <b>0902</b>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <b>68042932</b>	LABORATORY REMARKS <b>5.2/4.4/4.2 TEMP</b>
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
 5102 LaRoche Avenue  
 Savannah, GA 31404

Website: www.testamericainc.com  
 Phone: (912) 354-7858  
 Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:  
 Fax:

PROJECT REFERENCE <b>SWA INJECTION WELL PERMIT</b>	PROJECT NO.	PROJECT LOCATION (STATE)	MATRIX TYPE	REQUIRED ANALYSIS										PAGE 1	OF 1			
TAL (LAB) PROJECT MANAGER <b>ABBY PALGE</b>	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE <small>AQUEOUS (WATER)          SOLID OR SEMISOLID          AIR          NONAQUEOUS LIQUID (OIL, SOLVENT, ...)</small>	<small>He1 Asphalt Voa NA Tri CALIFORNIA</small>	<b>PRESERVATIVE</b>												STANDARD REPORT DELIVERY <input type="checkbox"/>	DATE DUE _____
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX															EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="checkbox"/>	DATE DUE _____
CLIENT NAME <b>OKECHOBEE L.P.</b>	CLIENT E-MAIL																	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
CLIENT ADDRESS <b>10800 NE 128th AVE. OKECHOBEE FL 34972</b>																		
COMPANY CONTRACTING THIS WORK (if applicable)																		

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS
DATE	TIME																	
12-17	0820	LMT04	X					3	1									
12-17	0900	POND ID	X					3	1									
12-17	-	TRIP	X					2										

RELINQUISHED BY: (SIGNATURE) 	DATE 12-17-00	TIME 1500	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY								
RECEIVED FOR LABORATORY BY: (SIGNATURE) Kh	DATE 12/18/00	TIME 0909	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-4282	LABORATORY REMARKS 2.4°C		

**Chain of Custody Record**

STL-4124 (09/01)

**STL Denver**  
4955 Yarrow Street  
Arvada, CO 80002

**SEVERN TRENT Laboratories, Inc.**



*680-42932*  
*EM*  
*11:30*

Client: **OKECHOBEE LANDFILL INC** Project Manager: \_\_\_\_\_  
Address: **10800 NE 128TH AVE** Site Contact: **SETH NONES**  
Telephone Number (Area Code)/Fax Number: **912-354-7858** Lab Contact: **ABRIE PAGE**  
City: **OKECHOBEE** State: **FL** Zip Code: **34972** Carrier/Waybill Number: \_\_\_\_\_  
Project Name and Location (State): **INJECTION WELL PERMIT** Containers & Preservatives: \_\_\_\_\_  
LOG IN NUMBER: **680-42932** Matrix: \_\_\_\_\_  
Sample I.D. No. and Description (Containers for each sample may be combined on one line): **1 (2) MASON JARS** Date: **12-20-08** Time: **8:00**  
Special Instructions/Conditions of Receipt: \_\_\_\_\_

Date: **12-20-08** Chain of Custody Number: **340930**  
Project Manager: \_\_\_\_\_ Date: \_\_\_\_\_ Chain of Custody Number: \_\_\_\_\_  
Page \_\_\_\_\_ of \_\_\_\_\_

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Soil	Sed.	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH
1 (2) MASON JARS	12-20-08	8:00											

1. Relinquished By	Date	Time	2. Received By	Date	Time	3. Received By	Date	Time
SETH NONES	12-20-08	1030	<i>Shirley Bly</i>	12-20-08	1030			

Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)  OC Requirements (Specify) \_\_\_\_\_  
Turn Around Time Required:  24 Hours  48 Hours  7 Days  14 Days  21 Days  Other \_\_\_\_\_  
Sample Disposal: \_\_\_\_\_

Comments: **2.8c cu-07**

DISTRIBUTION: WHITE - Returned to Client with Report: CANARY - Stays with the Sample: PINK - Field Copy

**Environmental Conservation Laboratories, Inc.**

102-A Woodwinds Industrial Court

Cary NC, 27511

Phone: 919.467.3090 FAX: 919.467.3515



www.encolabs.com

Thursday, January 8, 2009

Waste Management - Okeechobee (WM013)

Attn: Seth Nunes

10800 NE 128th Avenue

Okeechobee, FL 34972

**RE: Laboratory Results for  
Project Number: standard, Project Name/Desc: Landfill leachate  
ENCO Workorder: C900112**

Dear Seth Nunes,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, January 7, 2009.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Link Thrower".

Link Thrower  
Operations Mgr

Enclosure(s)



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**SAMPLE SUMMARY/LABORATORY CHRONICLE**

<b>Client ID:</b> LMT-04	<b>Lab ID:</b> C900112-01	<b>Sampled:</b> 01/06/09 16:35	<b>Received:</b> 01/07/09 07:50
<b>Parameter</b>	<b>Hold Date/Time(s)</b>	<b>Prep Date/Time(s)</b>	<b>Analysis Date/Time(s)</b>
EPA 524.2	01/07/09 00:00	01/07/09 13:00	1/7/2009 14:02

<b>Client ID:</b> Trip Blank	<b>Lab ID:</b> C900112-02	<b>Sampled:</b> 01/06/09 16:35	<b>Received:</b> 01/07/09 07:50
<b>Parameter</b>	<b>Hold Date/Time(s)</b>	<b>Prep Date/Time(s)</b>	<b>Analysis Date/Time(s)</b>
EPA 524.2	01/07/09 00:00	01/07/09 13:00	1/7/2009 15:47



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### SAMPLE DETECTION SUMMARY

**Client ID:** LMT-04 **Lab ID:** C900112-01

Analyte	Results	Flag	MRL	Units	Method	Notes
1,2,4-Trimethylbenzene	8.6	D	5.0	ug/L	EPA 524.2	
1,3-Dichlorobenzene	5.6	D	5.0	ug/L	EPA 524.2	
1,4-Dichlorobenzene	5.7	D	5.0	ug/L	EPA 524.2	
4-Isopropyltoluene	22	D	5.0	ug/L	EPA 524.2	
Benzene	6.1	D	5.0	ug/L	EPA 524.2	
Ethylbenzene	16	D	5.0	ug/L	EPA 524.2	
m,p-Xylenes	21	D	5.0	ug/L	EPA 524.2	
Naphthalene	9.5	D	5.0	ug/L	EPA 524.2	
o-Xylene	9.7	D	5.0	ug/L	EPA 524.2	
Toluene	20	D	5.0	ug/L	EPA 524.2	
Xylenes (Total)	31	D	5.0	ug/L	EPA 524.2	



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**ANALYTICAL RESULTS**

**Description:** LMT-04  
**Matrix:** Drinking Water  
**Project:** Landfill leachate

**Lab Sample ID:** C900112-01  
**Sampled:** 01/06/09 16:35  
**Sampled By:** Seth Nunes

**Received:** 01/07/09 07:50  
**Work Order:** C900112

**Volatile Organic Compounds by GCMS**

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]	0.67	UD	ug/L	10	0.67	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.58	UD	ug/L	10	0.58	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
1,1,2,2-Tetrachloroethane [79-34-5]	0.74	UD	ug/L	10	0.74	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.78	UD	ug/L	10	0.78	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
1,1-Dichloroethane [75-34-3]	0.76	UD	ug/L	10	0.76	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
1,1-Dichloroethene [75-35-4] ^	1.1	UD	ug/L	10	1.1	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
1,1-Dichloropropene [563-58-6]	0.64	UD	ug/L	10	0.64	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
1,2,3-Trichlorobenzene [87-61-6]	2.1	UD	ug/L	10	2.1	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
1,2,3-Trichloropropane [96-18-4]	1.8	UD	ug/L	10	1.8	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.95	UD	ug/L	10	0.95	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
<b>1,2,4-Trimethylbenzene [95-63-6]</b>	<b>8.6</b>	D	ug/L	10	0.61	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.65	UD	ug/L	10	0.65	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
1,2-Dichloroethane [107-06-2] ^	0.57	UD	ug/L	10	0.57	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
1,2-Dichloropropane [78-87-5] ^	0.99	UD	ug/L	10	0.99	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
1,3,5-Trimethylbenzene [108-67-8]	0.54	UD	ug/L	10	0.54	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
<b>1,3-Dichlorobenzene [541-73-1]</b>	<b>5.6</b>	D	ug/L	10	0.52	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
1,3-Dichloropropane [142-28-9]	0.73	UD	ug/L	10	0.73	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
1,3-Dichloropropene [542-75-6]	0.80	UD	ug/L	10	0.80	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
<b>1,4-Dichlorobenzene [106-46-7] ^</b>	<b>5.7</b>	D	ug/L	10	0.64	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
2,2-Dichloropropane [594-20-7]	1.0	UD	ug/L	10	1.0	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
2-Chlorotoluene [95-49-8]	0.77	UD	ug/L	10	0.77	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
4-Chlorotoluene [106-43-4]	0.67	UD	ug/L	10	0.67	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
<b>4-Isopropyltoluene [99-87-6]</b>	<b>22</b>	D	ug/L	10	0.74	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
<b>Benzene [71-43-2] ^</b>	<b>6.1</b>	D	ug/L	10	0.67	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
Bromobenzene [108-86-1]	0.73	UD	ug/L	10	0.73	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
Bromochloromethane [74-97-5]	0.97	UD	ug/L	10	0.97	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
Bromomethane [74-83-9]	4.5	UD	ug/L	10	4.5	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
Carbon Tetrachloride [56-23-5] ^	0.92	UD	ug/L	10	0.92	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
Chlorobenzene [108-90-7] ^	0.83	UD	ug/L	10	0.83	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
Chloroethane [75-00-3]	2.6	UD	ug/L	10	2.6	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
Chloromethane [74-87-3]	0.61	UD	ug/L	10	0.61	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.95	UD	ug/L	10	0.95	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
cis-1,3-Dichloropropene [10061-01-5]	0.95	UD	ug/L	10	0.95	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
Dibromomethane [74-95-3]	1.1	UD	ug/L	10	1.1	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
Dichlorodifluoromethane [75-71-8]	0.65	UD	ug/L	10	0.65	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
Dichloropropenes (Total)	1.6	UD	ug/L	10	1.6	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
<b>Ethylbenzene [100-41-4] ^</b>	<b>16</b>	D	ug/L	10	0.63	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
Hexachlorobutadiene [87-68-3]	0.89	UD	ug/L	10	0.89	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
Isopropylbenzene [98-82-8]	0.92	UD	ug/L	10	0.92	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
<b>m,p-Xylenes [108-38-3/106-42-3]</b>	<b>21</b>	D	ug/L	10	1.2	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
Methylene Chloride [75-09-2] ^	2.3	UD	ug/L	10	2.3	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
Methyl-tert-butyl ether [1634-04-4]	1.3	UD	ug/L	10	1.3	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
<b>Naphthalene [91-20-3]</b>	<b>9.5</b>	D	ug/L	10	0.89	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
n-Butyl Benzene [104-51-8]	0.60	UD	ug/L	10	0.60	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
n-Propyl Benzene [103-65-1]	0.55	UD	ug/L	10	0.55	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
<b>o-Xylene [95-47-6]</b>	<b>9.7</b>	D	ug/L	10	0.74	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
sec-Butylbenzene [135-98-8]	0.63	UD	ug/L	10	0.63	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
Styrene [100-42-5] ^	0.50	UD	ug/L	10	0.50	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	





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Description: LMT-04

Lab Sample ID: C900112-01

Received: 01/07/09 07:50

Matrix: Drinking Water

Sampled: 01/06/09 16:35

Work Order: C900112

Project: Landfill leachate

Sampled By: Seth Nunes

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
tert-Butylbenzene [98-06-6]	0.85	UD	ug/L	10	0.85	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
Tetrachloroethene [127-18-4] ^	0.94	UD	ug/L	10	0.94	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
<b>Toluene [108-88-3] ^</b>	<b>20</b>	<b>D</b>	ug/L	10	0.70	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	1.1	UD	ug/L	10	1.1	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
trans-1,3-Dichloropropene [10061-02-6]	1.1	UD	ug/L	10	1.1	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
Trichloroethene [79-01-6] ^	0.79	UD	ug/L	10	0.79	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
Trichlorofluoromethane [75-69-4]	0.90	UD	ug/L	10	0.90	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
Vinyl chloride [75-01-4] ^	0.77	UD	ug/L	10	0.77	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	
<b>Xylenes (Total) [1330-20-7] ^</b>	<b>31</b>	<b>D</b>	ug/L	10	1.9	5.0	9A07020	EPA 524.2	01/07/09 14:02	JKG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
1,2-Dichlorobenzene-d4	48	1	50.0	97 %	70-130	9A07020	EPA 524.2	01/07/09 14:02	JKG	
4-Bromofluorobenzene	49	1	50.0	98 %	70-130	9A07020	EPA 524.2	01/07/09 14:02	JKG	

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**Description:** Trip Blank  
**Matrix:** Drinking Water  
**Project:** Landfill leachate

**Lab Sample ID:** C900112-02  
**Sampled:** 01/06/09 16:35  
**Sampled By:** ENCO

**Received:** 01/07/09 07:50  
**Work Order:** C900112

### Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]	0.067	U	ug/L	1	0.067	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.058	U	ug/L	1	0.058	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
1,1,2,2-Tetrachloroethane [79-34-5]	0.074	U	ug/L	1	0.074	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.078	U	ug/L	1	0.078	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
1,1-Dichloroethane [75-34-3]	0.076	U	ug/L	1	0.076	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
1,1-Dichloroethene [75-35-4] ^	0.11	U	ug/L	1	0.11	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
1,1-Dichloropropene [563-58-6]	0.064	U	ug/L	1	0.064	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
1,2,3-Trichlorobenzene [87-61-6]	0.21	U	ug/L	1	0.21	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
1,2,3-Trichloropropane [96-18-4]	0.18	U	ug/L	1	0.18	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
1,2,4-Trichlorobenzene [120-82-1] ^	0.095	U	ug/L	1	0.095	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
1,2,4-Trimethylbenzene [95-63-6]	0.061	U	ug/L	1	0.061	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.065	U	ug/L	1	0.065	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
1,2-Dichloroethane [107-06-2] ^	0.057	U	ug/L	1	0.057	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
1,2-Dichloropropane [78-87-5] ^	0.099	U	ug/L	1	0.099	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
1,3,5-Trimethylbenzene [108-67-8]	0.054	U	ug/L	1	0.054	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
1,3-Dichlorobenzene [541-73-1]	0.052	U	ug/L	1	0.052	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
1,3-Dichloropropane [142-28-9]	0.073	U	ug/L	1	0.073	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
1,3-Dichloropropene [542-75-6]	0.080	U	ug/L	1	0.080	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.064	U	ug/L	1	0.064	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
2,2-Dichloropropane [594-20-7]	0.10	U	ug/L	1	0.10	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
2-Chlorotoluene [95-49-8]	0.077	U	ug/L	1	0.077	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
4-Chlorotoluene [106-43-4]	0.067	U	ug/L	1	0.067	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
4-Isopropyltoluene [99-87-6]	0.074	U	ug/L	1	0.074	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Benzene [71-43-2] ^	0.067	U	ug/L	1	0.067	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Bromobenzene [108-86-1]	0.073	U	ug/L	1	0.073	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Bromochloromethane [74-97-5]	0.097	U	ug/L	1	0.097	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Bromomethane [74-83-9]	0.45	U	ug/L	1	0.45	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Carbon Tetrachloride [56-23-5] ^	0.092	U	ug/L	1	0.092	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Chlorobenzene [108-90-7] ^	0.083	U	ug/L	1	0.083	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Chloroethane [75-00-3]	0.26	U	ug/L	1	0.26	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Chloromethane [74-87-3]	0.061	U	ug/L	1	0.061	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.095	U	ug/L	1	0.095	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
cis-1,3-Dichloropropene [10061-01-5]	0.095	U	ug/L	1	0.095	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Dibromomethane [74-95-3]	0.11	U	ug/L	1	0.11	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Dichlorodifluoromethane [75-71-8]	0.065	U	ug/L	1	0.065	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Dichloropropenes (Total)	0.16	U	ug/L	1	0.16	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Ethylbenzene [100-41-4] ^	0.063	U	ug/L	1	0.063	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Hexachlorobutadiene [87-68-3]	0.089	U	ug/L	1	0.089	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Isopropylbenzene [98-82-8]	0.092	U	ug/L	1	0.092	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
m,p-Xylenes [108-38-3/106-42-3]	0.12	U	ug/L	1	0.12	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Methylene Chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Methyl-tert-butyl ether [1634-04-4]	0.13	U	ug/L	1	0.13	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Naphthalene [91-20-3]	0.089	U	ug/L	1	0.089	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
n-Butyl Benzene [104-51-8]	0.060	U	ug/L	1	0.060	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
n-Propyl Benzene [103-65-1]	0.055	U	ug/L	1	0.055	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
o-Xylene [95-47-6]	0.074	U	ug/L	1	0.074	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
sec-Butylbenzene [135-98-8]	0.063	U	ug/L	1	0.063	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Styrene [100-42-5] ^	0.050	U	ug/L	1	0.050	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
tert-Butylbenzene [98-06-6]	0.085	U	ug/L	1	0.085	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Tetrachloroethene [127-18-4] ^	0.094	U	ug/L	1	0.094	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Toluene [108-88-3] ^	0.070	U	ug/L	1	0.070	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	



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Description: Trip Blank  
Matrix: Drinking Water  
Project: Landfill leachate

Lab Sample ID: C900112-02  
Sampled: 01/06/09 16:35  
Sampled By: ENCO

Received: 01/07/09 07:50  
Work Order: C900112

**Volatile Organic Compounds by GCMS**

^ - ENCO Cary certified analyte [NELAC E87610]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
trans-1,3-Dichloropropene [10061-02-6]	0.11	U	ug/L	1	0.11	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Trichloroethene [79-01-6] ^	0.079	U	ug/L	1	0.079	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Trichlorofluoromethane [75-69-4]	0.090	U	ug/L	1	0.090	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Vinyl chloride [75-01-4] ^	0.077	U	ug/L	1	0.077	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	
Xylenes (Total) [1330-20-7] ^	0.19	U	ug/L	1	0.19	0.50	9A07020	EPA 524.2	01/07/09 15:47	JKG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
1,2-Dichlorobenzene-d4	48	1	50.0	96 %	70-130	9A07020	EPA 524.2	01/07/09 15:47	JKG	
4-Bromofluorobenzene	49	1	50.0	99 %	70-130	9A07020	EPA 524.2	01/07/09 15:47	JKG	

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### QUALITY CONTROL

#### Volatile Organic Compounds by GCMS - Quality Control

Batch 9A07020 - EPA 5030B\_MS

Blank (9A07020-BLK1)

Prepared: 01/07/2009 08:00 Analyzed: 01/07/2009 13:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.067	U	0.50	ug/L							
1,1,1-Trichloroethane	0.058	U	0.50	ug/L							
1,1,2,2-Tetrachloroethane	0.074	U	0.50	ug/L							
1,1,2-Trichloroethane	0.078	U	0.50	ug/L							
1,1-Dichloroethane	0.076	U	0.50	ug/L							
1,1-Dichloroethene	0.11	U	0.50	ug/L							
1,1-Dichloropropene	0.064	U	0.50	ug/L							
1,2,3-Trichlorobenzene	0.21	U	0.50	ug/L							
1,2,3-Trichloropropane	0.18	U	0.50	ug/L							
1,2,4-Trichlorobenzene	0.095	U	0.50	ug/L							
1,2,4-Trimethylbenzene	0.061	U	0.50	ug/L							
1,2-Dichlorobenzene	0.065	U	0.50	ug/L							
1,2-Dichloroethane	0.057	U	0.50	ug/L							
1,2-Dichloropropane	0.099	U	0.50	ug/L							
1,3,5-Trimethylbenzene	0.054	U	0.50	ug/L							
1,3-Dichlorobenzene	0.052	U	0.50	ug/L							
1,3-Dichloropropane	0.073	U	0.50	ug/L							
1,3-Dichloropropene	0.080	U	0.50	ug/L							
1,4-Dichlorobenzene	0.064	U	0.50	ug/L							
2,2-Dichloropropane	0.10	U	0.50	ug/L							
2-Chlorotoluene	0.077	U	0.50	ug/L							
4-Chlorotoluene	0.067	U	0.50	ug/L							
4-Isopropyltoluene	0.074	U	0.50	ug/L							
Benzene	0.067	U	0.50	ug/L							
Bromobenzene	0.073	U	0.50	ug/L							
Bromochloromethane	0.097	U	0.50	ug/L							
Bromomethane	0.45	U	0.50	ug/L							
Carbon Tetrachloride	0.092	U	0.50	ug/L							
Chlorobenzene	0.083	U	0.50	ug/L							
Chloroethane	0.26	U	0.50	ug/L							
Chloromethane	0.061	U	0.50	ug/L							
cis-1,2-Dichloroethene	0.095	U	0.50	ug/L							
cis-1,3-Dichloropropene	0.095	U	0.50	ug/L							
Dibromomethane	0.11	U	0.50	ug/L							
Dichlorodifluoromethane	0.065	U	0.50	ug/L							
Dichloropropenes (Total)	0.16	U	0.50	ug/L							
Ethylbenzene	0.063	U	0.50	ug/L							
Hexachlorobutadiene	0.089	U	0.50	ug/L							
Isopropylbenzene	0.092	U	0.50	ug/L							
m,p-Xylenes	0.12	U	0.50	ug/L							
Methylene Chloride	0.23	U	0.50	ug/L							
Methyl-tert-butyl ether	0.13	U	0.50	ug/L							
Naphthalene	0.089	U	0.50	ug/L							
n-Butyl Benzene	0.060	U	0.50	ug/L							
n-Propyl Benzene	0.055	U	0.50	ug/L							
o-Xylene	0.074	U	0.50	ug/L							
sec-Butylbenzene	0.063	U	0.50	ug/L							
Styrene	0.050	U	0.50	ug/L							
tert-Butylbenzene	0.085	U	0.50	ug/L							



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**QUALITY CONTROL**

**Volatile Organic Compounds by GCMS - Quality Control**

Batch 9A07020 - EPA 5030B\_MS

**Blank (9A07020-BLK1) Continued**

Prepared: 01/07/2009 08:00 Analyzed: 01/07/2009 13:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Tetrachloroethene	0.094	U	0.50	ug/L							
Toluene	0.070	U	0.50	ug/L							
trans-1,2-Dichloroethene	0.11	U	0.50	ug/L							
trans-1,3-Dichloropropene	0.11	U	0.50	ug/L							
Trichloroethene	0.079	U	0.50	ug/L							
Trichlorofluoromethane	0.090	U	0.50	ug/L							
Vinyl chloride	0.077	U	0.50	ug/L							
Xylenes (Total)	0.19	U	0.50	ug/L							
Surrogate: 1,2-Dichlorobenzene-d4	47			ug/L	50.0		94	70-130			
Surrogate: 4-Bromofluorobenzene	49			ug/L	50.0		97	70-130			

**LCS (9A07020-BS1)**

Prepared: 01/07/2009 08:00 Analyzed: 01/07/2009 12:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	4.6		0.50	ug/L	5.00		92	70-130			
1,1,2-Trichloroethane	4.4		0.50	ug/L	5.00		87	70-130			
1,1-Dichloroethene	4.5		0.50	ug/L	5.00		91	70-130			
1,2,4-Trichlorobenzene	4.5		0.50	ug/L	5.00		91	70-130			
1,2-Dichlorobenzene	4.4		0.50	ug/L	5.00		89	70-130			
1,2-Dichloroethane	4.0		0.50	ug/L	5.00		80	70-130			
1,2-Dichloropropane	4.6		0.50	ug/L	5.00		92	70-130			
1,3-Dichlorobenzene	4.8		0.50	ug/L	5.00		96	70-130			
1,4-Dichlorobenzene	4.3		0.50	ug/L	5.00		87	70-130			
Benzene	4.7		0.50	ug/L	5.00		94	70-130			
Carbon Tetrachloride	4.8		0.50	ug/L	5.00		96	70-130			
Chlorobenzene	4.8		0.50	ug/L	5.00		95	70-130			
cis-1,2-Dichloroethene	4.5		0.50	ug/L	5.00		90	70-130			
Ethylbenzene	4.9		0.50	ug/L	5.00		98	70-130			
m,p-Xylenes	10		0.50	ug/L	10.0		100	70-130			
Methylene Chloride	4.4		0.50	ug/L	5.00		88	70-130			
o-Xylene	5.1		0.50	ug/L	5.00		102	70-130			
Styrene	4.7		0.50	ug/L	5.00		94	70-130			
Tetrachloroethene	4.9		0.50	ug/L	5.00		98	70-130			
Toluene	4.9		0.50	ug/L	5.00		97	70-130			
trans-1,2-Dichloroethene	4.3		0.50	ug/L	5.00		86	70-130			
Trichloroethene	4.6		0.50	ug/L	5.00		91	70-130			
Vinyl chloride	4.1		0.50	ug/L	5.00		81	70-130			
Surrogate: 1,2-Dichlorobenzene-d4	51			ug/L	50.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	50			ug/L	50.0		101	70-130			

**FLAGS/NOTES AND DEFINITIONS**

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.



**ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD**

18775 Central Port Dr. 4810 Executive Park Court, Suite 211 1015 Passport Way  
 Orlando, FL 32824 Jacksonville, FL 32216-6069 Cary, NC 27513  
 (407) 826-5314 Fax (407) 850-6945 (904) 296-3007 Fax (904) 296-6210 (919) 677-1669 Fax (919) 677-9846

Page \_\_\_ of \_\_\_

Client Name <b>Account Pending (AC001) WMD3</b>		Project Number <b>Okeechobee LF</b>		Requested Analyses						Requested Turnaround Times			
Address <b>10800 NE 128TH AVE</b>		Project Name/Desc <b>Waste Management</b>								524.2 FLDW		Note: Rush requests subject to acceptance by the facility	
City/ST/Zip <b>OKEECHOBEE FL 34972</b>		PO # / Billing Info										___ Standard	
Tel <b>863-357-0824</b>		Reporting Contact <b>Seth Nunes, P.E</b>										<input checked="" type="checkbox"/> Expedited	
Samples Name, Affiliation (Print) <b>SETH NUNES WASTE MANAGEMENT</b>		Billing Contact <b>Seth Nunes, P.E</b>										Due <b>1/7/09</b>	
Samples Signature <i>[Signature]</i>		Facility # (if required)		Preservation (See Codes) (Combine as necessary)						Lab Workorder <b>A900024</b>			

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers									Sample Comments
	ID: LMT-04	1/6/09	16:35		DW	4	X								C900112
	TRIP BLANK				O	2	X								O = DI WATER
						6	← Total # of Containers								

Sample Kit Prepared By <i>[Signature]</i>	Date/Time 1/5/09 15:30	Relinquished By <i>[Signature]</i>	Date/Time 1/5/09 15:20	Received By <i>[Signature]</i>	Date/Time 1/6/09 12:30 PM
Contents		Relinquished By <i>[Signature]</i>	Date/Time 1/6/09 17:00	Received By <i>[Signature]</i>	Date/Time 1/7/09 7:50
Cooler #s & Temps on Receipt <b>3.9°</b>			Condition Upon Receipt <input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable		

Matrix: GW Groundwater SO Soil SE Sediment SW Surface Water WW Wastewater A-Air O-Other (detail in comments) Preservation: I Ice H-HCl M-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist



# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

Date issued: February 10, 2009

To: David Webb  
All Webb's Enterprises, Inc.  
309 Commerce Way  
Jupiter, FL 33458

---

Client: All Webb's Enterprises, Inc.

Workorder ID: Okeechobee Landfill GW

[2033316]

Received: 1/21/09 16:10

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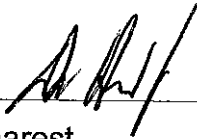
Dear David Webb;

Analytical results presented in this report have been reviewed for compliance with the HBEL, Inc. Quality Systems Manual and have been determined to meet applicable Method guidelines and Standards referenced in the July 2003 National Environmental Laboratory Accreditation Program (NELAP) Quality Manual unless otherwise noted. The Analytical Results within these report pages reflect the values obtained from tests performed on Samples As Received by the laboratory unless indicated differently.

FDOH Safe Drinking Water Act, Clean Water Act and RCRA Certification #'s:  
E96080, E83509

Questions regarding this report should be directed to the Report Signatory at (772) 465-8584 referencing the HBEL Workorder ID [Number].

Respectfully submitted,

  
Eric Charest  
HBEL, Inc. Laboratory Manager

Note: This report is not to be copied, except in full, without the expressed written consent of HBEL, Inc.

5600 US 1 North  
Fort Pierce, FL 34946  
FDOH # E96080

4155 St. Johns Pkwy Suite 1300  
Sanford, FL 32771  
FDOH # E83509

Printed: 2/10/09





# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## Quality Control Summary

Client: All Webb's Enterprises, Inc.

Workorder ID: Okeechobee Landfill GW

[2033316]

Received: 1/21/09 16:10

MB=Method Blank LCS=Laboratory Control Sample LCSD=Laboratory Control Sample Duplicate MS=Matrix Spike MSD=Matrix Spike Duplicate DUP=Sample Duplicate

### HBEL Sample

### Method Narratives (If Applicable)

<u>Number</u>	<u>Sample ID</u>	<u>Analytical Method</u>	<u>Description</u>
---------------	------------------	--------------------------	--------------------

### Quality Control Summary

<u>Method</u>	<u>HBEL Batch</u>	<u>Analyte</u>	<u>Analytical Issue</u>
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EPA 505

PEST5272

2033316001	Tetrachlorometaxylene	Surrogate - Outside acceptance Limits.
2033316002	Tetrachlorometaxylene	Surrogate - Outside acceptance Limits.

# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## CERTIFICATE OF ANALYSIS

[2033316]

Client: All Webb's Enterprises, Inc.

Workorder ID: Okeechobee Landfill GW

Parameter	Qualifier	Result <sup>1</sup>	Units	Reporting Limit	Method	Laboratory Batch	Prep Date/Time	Analyzed Date/Time	Analyst	Lab ID
<b>Laboratory ID: 2033316001</b>						<b>Sampled: 01/21/09 9:00</b>				
<b>Sample ID: LMZ Lower Grab</b>						<b>Received: 01/21/09 16:10</b>				
						<b>Matrix: Water</b>				
						<b>Results reported on Wet Weight Basis</b>				
Gross Alpha		87 +/- 4.9	pCi/L		EPA 00-02	SAL1099		02/2/09 10:12	SAL	E84129
pH	Q	7.67	SU	0.200	EPA 150.1	WCGE30524		01/22/09 18:20	GS	E96080
Aluminum		0.020 U	mg/L	0.020	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:42	DM	E96080
Antimony		0.0023 U	mg/L	0.0023	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:42	DM	E96080
Arsenic		0.0026 U	mg/L	0.0026	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:42	DM	E96080
Barium		0.074	mg/L	0.0018	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:42	DM	E96080
Beryllium		0.00010 U	mg/L	0.00010	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:42	DM	E96080
Cadmium		0.00070 U	mg/L	0.00070	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:42	DM	E96080
Chromium		0.0020	mg/L	0.0018	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:42	DM	E96080
Copper		0.0023	mg/L	0.0014	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:42	DM	E96080
Iron		0.24	mg/L	0.025	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:42	DM	E96080
Lead		0.0030 U	mg/L	0.0030	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:42	DM	E96080
Manganese		0.012	mg/L	0.0038	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:42	DM	E96080
Nickel		0.0020 U	mg/L	0.0020	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:42	DM	E96080
Selenium		0.0030 U	mg/L	0.0030	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:42	DM	E96080
Silver		0.00064 U	mg/L	0.00064	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:42	DM	E96080
Sodium		9900	mg/L	0.50	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:42	DM	E96080
Thallium		0.25	mg/L	0.039	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:42	DM	E96080
Zinc		0.096	mg/L	0.010	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:42	DM	E96080
Mercury		0.000060 U	mg/L	0.000060	EPA 245.1	META9224	01/28/09 12:40	01/30/09 14:06	DM	E96080
Chloride		17000	mg/L	100	EPA 300.0	IC7930		01/27/09 13:15	SP	E96080
Sulfate		2200	mg/L	28	EPA 300.0	IC7930		01/27/09 13:15	SP	E96080
Nitrate as N		0.0075 U	mg/L	0.0075	EPA 353.2	CALC5614		02/2/09 16:18	DH	E96080
Nitrate/Nitrite as N		0.0075 U	mg/L	0.0075	EPA 353.2	AUTO17162		02/2/09 12:13	DM	E96080
Nitrite as N		0.015	mg/L	0.0040	EPA 353.2	AUTO17140		01/22/09 12:28	JL	E96080
1,2-Dibromo-3-chloropropane		0.0035 U	ug/L	0.0035	EPA 504.1	PEST5275	01/30/09 9:00	01/30/09 19:36	JL	E96080
1,2-Dibromoethane		0.0046 U	ug/L	0.0046	EPA 504.1	PEST5275	01/30/09 9:00	01/30/09 19:36	JL	E96080
Chlordane		0.13 U	ug/L	0.13	EPA 505	PEST5272	01/22/09 10:00	01/22/09 10:16	JL	E96080
Endrin		0.10 U	ug/L	0.10	EPA 505	PEST5272	01/22/09 10:00	01/22/09 10:16	JL	E96080
gamma-BHC (Lindane)		0.020 U	ug/L	0.020	EPA 505	PEST5272	01/22/09 10:00	01/22/09 10:16	JL	E96080
Heptachlor		0.036 U	ug/L	0.036	EPA 505	PEST5272	01/22/09 10:00	01/22/09 10:16	JL	E96080
Heptachlor epoxide		0.027 U	ug/L	0.027	EPA 505	PEST5272	01/22/09 10:00	01/22/09 10:16	JL	E96080
Methoxychlor		0.044 U	ug/L	0.044	EPA 505	PEST5272	01/22/09 10:00	01/22/09 10:16	JL	E96080
PCB		0.14 U	ug/L	0.14	EPA 505	PEST5272	01/22/09 10:00	01/22/09 10:16	JL	E96080
Toxaphene		0.60 U	ug/L	0.60	EPA 505	PEST5272	01/22/09 10:00	01/22/09 10:16	JL	E96080
2,4,5-TP		0.19 U	ug/L	0.19	EPA 515.1	PEST5274	01/22/09 10:00	01/26/09 17:30	JL	E96080
2,4-D		0.22 U	ug/L	0.22	EPA 515.1	PEST5274	01/22/09 10:00	01/26/09 17:30	JL	E96080
Dalapon		2.3 U	ug/L	2.3	EPA 515.1	PEST5274	01/22/09 10:00	01/26/09 17:30	JL	E96080
Dinoseb		0.23 U	ug/L	0.23	EPA 515.1	PEST5274	01/22/09 10:00	01/26/09 17:30	JL	E96080
Pentachlorophenol		0.39 U	ug/L	0.39	EPA 515.1	PEST5274	01/22/09 10:00	01/26/09 17:30	JL	E96080

5600 US 1 North  
Fort Pierce, FL 34946  
FDOH # E96080

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Sanford, FL 32771  
FDOH # E83509



# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## CERTIFICATE OF ANALYSIS

[2033316]

Client: All Webb's Enterprises, Inc.

Workorder ID: Okeechobee Landfill GW

Parameter	Qualifier	Result <sup>1</sup>	Units	Reporting Limit	Method	Laboratory Batch	Prep Date/Time	Analyzed Date/Time	Analyst	Lab ID
Picloram		0.23 U	ug/L	0.23	EPA 515.1	PEST5274	01/22/09 10:00	01/26/09 17:30	JL	E96080
1,1,1-Trichloroethane		0.21 U	ug/L	0.21	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
1,1,2-Trichloroethane		0.44 U	ug/L	0.44	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
1,1-Dichloroethene		0.23 U	ug/L	0.23	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
1,2,4-Trichlorobenzene		0.41 U	ug/L	0.41	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
1,2-Dichlorobenzene		0.21 U	ug/L	0.21	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
1,2-Dichloroethane		0.29 U	ug/L	0.29	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
1,2-Dichloropropane		0.40 U	ug/L	0.40	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
1,4-Dichlorobenzene		0.23 U	ug/L	0.23	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
Benzene		0.20 U	ug/L	0.20	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
Bromodichloromethane		0.25 U	ug/L	0.25	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
Bromoform		0.41 U	ug/L	0.41	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
Carbon tetrachloride		0.24 U	ug/L	0.24	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
Chlorobenzene		0.30 U	ug/L	0.30	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
Chloroform		0.25 U	ug/L	0.25	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
cis-1,2-Dichloroethene		0.21 U	ug/L	0.21	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
Dibromochloromethane		0.30 U	ug/L	0.30	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
Ethylbenzene		0.21 U	ug/L	0.21	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
Methylene chloride		0.23 U	ug/L	0.23	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
Styrene		0.21 U	ug/L	0.21	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
Tetrachloroethene		0.24 U	ug/L	0.24	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
Toluene		0.22 U	ug/L	0.22	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
Total THMs		0.25 U	ug/L	0.25	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
Total Xylenes		0.46 U	ug/L	0.46	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
trans-1,2-Dichloroethene		0.35 U	ug/L	0.35	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
Trichloroethene		0.36 U	ug/L	0.36	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
Vinyl chloride		0.32 U	ug/L	0.32	EPA 524.2	VOC3035		02/4/09 1:19	WR	E96080
Alachlor		0.59 U	ug/L	0.59	EPA 525.2	SVOC2731	01/28/09 9:00	01/30/09 11:20	CG	E96080
Atrazine		0.47 U	ug/L	0.47	EPA 525.2	SVOC2731	01/28/09 9:00	01/30/09 11:20	CG	E96080
Benzo(a)pyrene		0.068 U	ug/L	0.068	EPA 525.2	SVOC2731	01/28/09 9:00	01/30/09 11:20	CG	E96080
bis(2-ethylhexyl)phthalate		0.82 U	ug/L	0.82	EPA 525.2	SVOC2731	01/28/09 9:00	01/30/09 11:20	CG	E96080
Di(2-ethylhexyl)adipate		0.66 U	ug/L	0.66	EPA 525.2	SVOC2731	01/28/09 9:00	01/30/09 11:20	CG	E96080
Hexachlorobenzene		0.30 U	ug/L	0.30	EPA 525.2	SVOC2731	01/28/09 9:00	01/30/09 11:20	CG	E96080
Hexachlorocyclopentadiene		0.23 U	ug/L	0.23	EPA 525.2	SVOC2731	01/28/09 9:00	01/30/09 11:20	CG	E96080
Simazine		0.61 U	ug/L	0.61	EPA 525.2	SVOC2731	01/28/09 9:00	01/30/09 11:20	CG	E96080
Aldicarb		0.54 U	ug/L	0.54	EPA 531.1	HPLC2555		01/28/09 19:37	JJM	E96080
Aldicarb sulfone		0.45 U	ug/L	0.45	EPA 531.1	HPLC2555		01/28/09 19:37	JJM	E96080
Aldicarb sulfoxide		0.36 U	ug/L	0.36	EPA 531.1	HPLC2555		01/28/09 19:37	JJM	E96080
Carbofuran		0.41 U	ug/L	0.41	EPA 531.1	HPLC2555		01/28/09 19:37	JJM	E96080
Oxamyl		0.13 U	ug/L	0.13	EPA 531.1	HPLC2555		01/28/09 19:37	JJM	E96080
Glyphosate		13 U	ug/L	13	EPA 547	HPLC2557		01/29/09 14:18	JJM	E96080
Endothall		2.8 U	ug/L	2.8	EPA 548.1	SVOC2729	01/27/09 8:00	01/31/09 20:49	CG	E96080
Diquat		1.9 U	ug/L	1.9	EPA 549.2	HPLC2556	01/27/09 8:00	01/29/09 12:24	JJM	E96080

5600 US 1 North  
Fort Pierce, FL 34946  
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4155 St. Johns Pkwy Suite 1300  
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# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## CERTIFICATE OF ANALYSIS

[2033316]

Client: All Webb's Enterprises, Inc.

Workorder ID: Okeechobee Landfill GW

Parameter	Qualifier	Result <sup>1</sup>	Units	Reporting Limit	Method	Laboratory Batch	Prep Date/Time	Analyzed Date/Time	Analyst	Lab ID
Radium 226		21 +/- 0.9	pCi/L		EPA 903.1	SAL1099		02/4/09 13:05	SAL	E84129
Radium 228		5.1 +/- 0.4	pCi/L		EPA Alter.	SAL1099		02/6/09 16:14	SAL	E84129
Color		6.0	CU	1.8	SM2120 B	WCGE30525		01/23/09 8:10	TCL	E96080
Odor		1.9	T.O.N.	1.0	SM2150 B	WCGE30522		01/22/09 13:40	SP	E96080
Total Dissolved Solids		32000	mg/L	403	SM2540 C	WCGE30532		01/23/09 16:00	SP	E96080
Cyanide		0.010	mg/L	0.0047	SM4500CN E	WCGE30553	01/27/09 11:00	01/29/09 11:38	GG	E96080
Fluoride		0.43	mg/L	0.024	SM4500F C	WCGE30512		01/22/09 14:00	SP	E96080
Surfactants as LAS, Mol.wt.340		0.066	mg/L	0.022	SM5540 C	WCGE30535	01/22/09 9:00	01/23/09 15:20	GG	E96080
Background on Total Coli		140	CFU/100mL	1.0	SM9222 B	MICR13324		01/21/09 17:20	TR	E96080
Confirmed E. Coli		1.0 U	CFU/100mL	1.0	SM9222 B	MICR13324		01/21/09 17:20	TR	E96080
Confirmed Fecal Coliform		1.0 U	CFU/100mL	1.0	SM9222 B	MICR13324		01/21/09 17:20	TR	E96080
Confirmed Total Coliform		1.0 U	CFU/100mL	1.0	SM9222 B	MICR13324		01/21/09 17:20	TR	E96080
Total Coliform		1.0 U	CFU/100mL	1.0	SM9222 B	MICR13324		01/21/09 17:20	TR	E96080

# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## CERTIFICATE OF ANALYSIS

[2033316]

Client: All Webb's Enterprises, Inc.

Workorder ID: Okeechobee Landfill GW

Parameter	Qualifier	Result <sup>1</sup>	Units	Reporting Limit	Method	Laboratory Batch	Prep Date/Time	Analyzed Date/Time	Analyst	Lab ID
<b>Laboratory ID: 2033316002</b>						<b>Sampled: 01/21/09 14:30</b>				
<b>Sample ID: LMZ Upper Grab</b>						<b>Received: 01/21/09 16:10</b>				
						<b>Matrix: Water</b>				
						<b>Results reported on Wet Weight Basis</b>				
Gross Alpha		38 +/- 3.9	pCi/L		EPA 00-02	SAL1099		01/30/09 13:48	SAL	E84129
pH	Q	8.44	SU	0.200	EPA 150.1	WCGE30524		01/22/09 18:20	GS	E96080
Aluminum		0.44	mg/L	0.020	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:48	DM	E96080
Antimony		0.0023 U	mg/L	0.0023	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:48	DM	E96080
Arsenic		0.0063	mg/L	0.0026	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:48	DM	E96080
Barium		0.11	mg/L	0.0018	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:48	DM	E96080
Beryllium		0.00010 U	mg/L	0.00010	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:48	DM	E96080
Cadmium		0.00070 U	mg/L	0.00070	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:48	DM	E96080
Chromium		0.0079	mg/L	0.0018	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:48	DM	E96080
Copper		0.0019	mg/L	0.0014	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:48	DM	E96080
Iron		1.7	mg/L	0.025	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:48	DM	E96080
Lead		0.0030 U	mg/L	0.0030	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:48	DM	E96080
Manganese		0.031	mg/L	0.0038	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:48	DM	E96080
Nickel		0.0020 U	mg/L	0.0020	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:48	DM	E96080
Selenium		0.0030 U	mg/L	0.0030	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:48	DM	E96080
Silver		0.00064 U	mg/L	0.00064	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:48	DM	E96080
Sodium		6300	mg/L	0.50	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:48	DM	E96080
Thallium		0.14	mg/L	0.039	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:48	DM	E96080
Zinc		0.036	mg/L	0.010	EPA 200.7	META9221	01/27/09 14:25	01/28/09 13:48	DM	E96080
Mercury		0.000060 U	mg/L	0.000060	EPA 245.1	META9224	01/28/09 12:40	01/30/09 14:10	DM	E96080
Chloride		10000	mg/L	100	EPA 300.0	IC7938		02/2/09 10:43	SP	E96080
Sulfate		1200	mg/L	28	EPA 300.0	IC7938		02/2/09 10:43	SP	E96080
Nitrate as N		0.0075 U	mg/L	0.0075	EPA 353.2	CALC5614		02/2/09 16:18	DH	E96080
Nitrate/Nitrite as N		0.0075 U	mg/L	0.0075	EPA 353.2	AUTO17162		02/2/09 12:19	DM	E96080
Nitrite as N		0.0040 U	mg/L	0.0040	EPA 353.2	AUTO17140		01/22/09 12:28	JL	E96080
1,2-Dibromo-3-chloropropane		0.0035 U	ug/L	0.0035	EPA 504.1	PEST5275	01/30/09 9:00	01/30/09 20:07	JL	E96080
1,2-Dibromoethane		0.0046 U	ug/L	0.0046	EPA 504.1	PEST5275	01/30/09 9:00	01/30/09 20:07	JL	E96080
Chlordane		0.13 U	ug/L	0.13	EPA 505	PEST5272	01/22/09 10:00	01/22/09 10:45	JL	E96080
Endrin		0.10 U	ug/L	0.10	EPA 505	PEST5272	01/22/09 10:00	01/22/09 10:45	JL	E96080
gamma-BHC (Lindane)		0.020 U	ug/L	0.020	EPA 505	PEST5272	01/22/09 10:00	01/22/09 10:45	JL	E96080
Heptachlor		0.036 U	ug/L	0.036	EPA 505	PEST5272	01/22/09 10:00	01/22/09 10:45	JL	E96080
Heptachlor epoxide		0.027 U	ug/L	0.027	EPA 505	PEST5272	01/22/09 10:00	01/22/09 10:45	JL	E96080
Methoxychlor		0.044 U	ug/L	0.044	EPA 505	PEST5272	01/22/09 10:00	01/22/09 10:45	JL	E96080
PCB		0.14 U	ug/L	0.14	EPA 505	PEST5272	01/22/09 10:00	01/22/09 10:45	JL	E96080
Toxaphene		0.60 U	ug/L	0.60	EPA 505	PEST5272	01/22/09 10:00	01/22/09 10:45	JL	E96080
2,4,5-TP		0.19 U	ug/L	0.19	EPA 515.1	PEST5274	01/22/09 10:00	01/26/09 18:02	JL	E96080
2,4-D		0.22 U	ug/L	0.22	EPA 515.1	PEST5274	01/22/09 10:00	01/26/09 18:02	JL	E96080
Dalapon		2.3 U	ug/L	2.3	EPA 515.1	PEST5274	01/22/09 10:00	01/26/09 18:02	JL	E96080
Dinoseb		0.23 U	ug/L	0.23	EPA 515.1	PEST5274	01/22/09 10:00	01/26/09 18:02	JL	E96080
Pentachlorophenol		0.39 U	ug/L	0.39	EPA 515.1	PEST5274	01/22/09 10:00	01/26/09 18:02	JL	E96080

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## CERTIFICATE OF ANALYSIS

[2033316]

Client: All Webb's Enterprises, Inc.

Workorder ID: Okeechobee Landfill GW

Parameter	Qualifier	Result <sup>1</sup>	Units	Reporting Limit	Method	Laboratory Batch	Prep Date/Time	Analyzed Date/Time	Analyst	Lab ID
Picloram		0.23 U	ug/L	0.23	EPA 515.1	PEST5274	01/22/09 10:00	01/26/09 18:02	JL	E96080
1,1,1-Trichloroethane		0.21 U	ug/L	0.21	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
1,1,2-Trichloroethane		0.44 U	ug/L	0.44	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
1,1-Dichloroethene		0.23 U	ug/L	0.23	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
1,2,4-Trichlorobenzene		0.41 U	ug/L	0.41	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
1,2-Dichlorobenzene		0.21 U	ug/L	0.21	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
1,2-Dichloroethane		0.29 U	ug/L	0.29	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
1,2-Dichloropropane		0.40 U	ug/L	0.40	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
1,4-Dichlorobenzene		0.23 U	ug/L	0.23	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
Benzene		0.20 U	ug/L	0.20	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
Bromodichloromethane		0.25 U	ug/L	0.25	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
Bromoform		0.41 U	ug/L	0.41	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
Carbon tetrachloride		0.24 U	ug/L	0.24	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
Chlorobenzene		0.30 U	ug/L	0.30	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
Chloroform		0.25 U	ug/L	0.25	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
cis-1,2-Dichloroethene		0.21 U	ug/L	0.21	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
Dibromochloromethane		0.30 U	ug/L	0.30	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
Ethylbenzene		0.21 U	ug/L	0.21	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
Methylene chloride		0.23 U	ug/L	0.23	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
Styrene		0.21 U	ug/L	0.21	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
Tetrachloroethene		0.24 U	ug/L	0.24	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
Toluene		0.22 U	ug/L	0.22	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
Total THMs		0.25 U	ug/L	0.25	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
Total Xylenes		0.46 U	ug/L	0.46	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
trans-1,2-Dichloroethene		0.35 U	ug/L	0.35	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
Trichloroethene		0.36 U	ug/L	0.36	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
Vinyl chloride		0.32 U	ug/L	0.32	EPA 524.2	VOC3035		02/4/09 1:51	WR	E96080
Alachlor		0.61 U	ug/L	0.61	EPA 525.2	SVOC2731	01/28/09 9:00	01/30/09 11:59	CG	E96080
Atrazine		0.48 U	ug/L	0.48	EPA 525.2	SVOC2731	01/28/09 9:00	01/30/09 11:59	CG	E96080
Benzo(a)pyrene		0.070 U	ug/L	0.070	EPA 525.2	SVOC2731	01/28/09 9:00	01/30/09 11:59	CG	E96080
bis(2-ethylhexyl)phthalate		0.85 U	ug/L	0.85	EPA 525.2	SVOC2731	01/28/09 9:00	01/30/09 11:59	CG	E96080
Di(2-ethylhexyl)adipate		0.68 U	ug/L	0.68	EPA 525.2	SVOC2731	01/28/09 9:00	01/30/09 11:59	CG	E96080
Hexachlorobenzene		0.31 U	ug/L	0.31	EPA 525.2	SVOC2731	01/28/09 9:00	01/30/09 11:59	CG	E96080
Hexachlorocyclopentadiene		0.24 U	ug/L	0.24	EPA 525.2	SVOC2731	01/28/09 9:00	01/30/09 11:59	CG	E96080
Simazine		0.63 U	ug/L	0.63	EPA 525.2	SVOC2731	01/28/09 9:00	01/30/09 11:59	CG	E96080
Aldicarb		0.54 U	ug/L	0.54	EPA 531.1	HPLC2555		01/28/09 20:08	JJM	E96080
Aldicarb sulfone		0.45 U	ug/L	0.45	EPA 531.1	HPLC2555		01/28/09 20:08	JJM	E96080
Aldicarb sulfoxide		0.36 U	ug/L	0.36	EPA 531.1	HPLC2555		01/28/09 20:08	JJM	E96080
Carbofuran		0.41 U	ug/L	0.41	EPA 531.1	HPLC2555		01/28/09 20:08	JJM	E96080
Oxamyl		0.13 U	ug/L	0.13	EPA 531.1	HPLC2555		01/28/09 20:08	JJM	E96080
Glyphosate		13 U	ug/L	13	EPA 547	HPLC2557		01/29/09 14:34	JJM	E96080
Endothall		2.8 U	ug/L	2.8	EPA 548.1	SVOC2729	01/27/09 8:00	01/31/09 21:11	CG	E96080
Diquat		1.9 U	ug/L	1.9	EPA 549.2	HPLC2556	01/27/09 8:00	01/29/09 12:31	JJM	E96080

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## CERTIFICATE OF ANALYSIS

[2033316]

Client: All Webb's Enterprises, Inc.

Workorder ID: Okeechobee Landfill GW

Parameter	Qualifier	Result <sup>1</sup>	Units	Reporting Limit	Method	Laboratory Batch	Prep Date/Time	Analyzed Date/Time	Analyst	Lab ID
Radium 226		13 +/- 0.7	pCi/L		EPA 903.1	SAL1099		02/4/09 13:05	SAL	E84129
Radium 228		4.0 +/- 0.4	pCi/L		EPA Alter.	SAL1099		02/6/09 16:14	SAL	E84129
Color		6.0	CU	1.8	SM2120 B	WCGE30525		01/23/09 8:15	TCL	E96080
Odor		2.9	T.O.N.	1.0	SM2150 B	WCGE30522		01/22/09 13:40	SP	E96080
Total Dissolved Solids		20000	mg/L	403	SM2540 C	WCGE30532		01/23/09 16:00	SP	E96080
Cyanide		0.0082	mg/L	0.0047	SM4500CN E	WCGE30553	01/27/09 11:00	01/29/09 11:38	GG	E96080
Fluoride		0.48	mg/L	0.024	SM4500F C	WCGE30512		01/22/09 14:00	SP	E96080
Surfactants as LAS, Mol.wt.340		0.081	mg/L	0.022	SM5540 C	WCGE30535	01/22/09 9:00	01/23/09 15:20	GG	E96080
Background on Total Coli		73	CFU/100mL	1.0	SM9222 B	MICR13324		01/21/09 17:20	TR	E96080
Confirmed E. Coli		1.0 U	CFU/100mL	1.0	SM9222 B	MICR13324		01/21/09 17:20	TR	E96080
Confirmed Fecal Coliform		1.0 U	CFU/100mL	1.0	SM9222 B	MICR13324		01/21/09 17:20	TR	E96080
Confirmed Total Coliform		1.0 U	CFU/100mL	1.0	SM9222 B	MICR13324		01/21/09 17:20	TR	E96080
Total Coliform		2.0	CFU/100mL	1.0	SM9222 B	MICR13324		01/21/09 17:20	TR	E96080

Laboratory ID: 2033316003

Sample ID: Trip Blank

Sampled: 01/21/09 0:00

Received: 01/21/09 16:10

Matrix: Water

Results reported on Wet Weight Basis

1,1,1-Trichloroethane	0.21 U	ug/L	0.21	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
1,1,2-Trichloroethane	0.44 U	ug/L	0.44	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
1,1-Dichloroethene	0.23 U	ug/L	0.23	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
1,2,4-Trichlorobenzene	0.41 U	ug/L	0.41	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
1,2-Dichlorobenzene	0.21 U	ug/L	0.21	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
1,2-Dichloroethane	0.29 U	ug/L	0.29	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
1,2-Dichloropropane	0.40 U	ug/L	0.40	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
1,4-Dichlorobenzene	0.23 U	ug/L	0.23	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
Benzene	0.20 U	ug/L	0.20	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
Bromodichloromethane	0.25 U	ug/L	0.25	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
Bromoform	0.41 U	ug/L	0.41	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
Carbon tetrachloride	0.24 U	ug/L	0.24	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
Chlorobenzene	0.30 U	ug/L	0.30	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
Chloroform	0.25 U	ug/L	0.25	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
cis-1,2-Dichloroethene	0.21 U	ug/L	0.21	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
Dibromochloromethane	0.30 U	ug/L	0.30	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
Ethylbenzene	0.21 U	ug/L	0.21	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
Methylene chloride	0.23 U	ug/L	0.23	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
Styrene	0.21 U	ug/L	0.21	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
Tetrachloroethene	0.24 U	ug/L	0.24	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
Toluene	0.22 U	ug/L	0.22	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
Total THMs	0.25 U	ug/L	0.25	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
Total Xylenes	0.46 U	ug/L	0.46	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
trans-1,2-Dichloroethene	0.35 U	ug/L	0.35	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
Trichloroethene	0.36 U	ug/L	0.36	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080
Vinyl chloride	0.32 U	ug/L	0.32	EPA 524.2	VOC3035	02/4/09 2:23	WR	E96080

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## CERTIFICATE OF ANALYSIS

[2033316]

Client: All Webb's Enterprises, Inc.

Workorder ID: Okeechobee Landfill GW

Parameter	Qualifier	Result <sup>1</sup>	Units	Reporting Limit	Method	Laboratory Batch	Prep Date/Time	Analyzed Date/Time	Analyst	Lab ID
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<sup>1</sup>Result Qualifiers: U = Not Detected I = Analyte detected between the Laboratory Method Detection Limit and Laboratory Reporting Limit  
Applicable Florida Department of Environmental Protection Qualifiers defined below. Statement of Estimated Uncertainty available upon request.

Q Sample held beyond the accepted holding time.





# Field Data Sheet

Sampler(s) **Harry Sherva**

Date **01/21/09**

Page 1 of 2

Project Name: **All Webbs Enterprise**

Sample Type	WW	SW	GW <b>X</b>	DW	DI	Sludge	Sed.	Soil
Sample Site Identification: <b>Okeechobee Landfill Injection Well (LNZ Upper)</b>								
Sampling Method:	Grab <b>X</b>	Comp.	MW	Bailer	Pump			
Sampling Equipment <b>None</b>								
Site & Weather Conditions <b>Cold / Sunny / Windy</b>								

**Field Instrument Beginning Calibration**

								Slope
pH Meter	YES	Buffer	4.0	<b>4.02</b>	7.0	<b>6.99</b>	10.0	<b>10.02</b>
Conductivity Meter	YES	Buffer	147		1412	<b>1413</b>	12900	
Turbidity Meter	YES	Buffer	1.0	<b>0.99</b>	10	<b>10.02</b>	20	
DO Meter	NO	Buffer	Air Cal	Adjust	<b>100.00%</b>	From	<b>99.50%</b>	

Field Filtered	Yes	No <b>X</b>
Field Decon	Yes	No <b>X</b>
Duplicate	Yes	No <b>X</b>

Well Diameter	Multiplier
1.5 inches	0.092
2 inches	0.163
4 inches	0.653
6 inches	1.469

Parameter	Sample Containers	pH check	
Nutrient	Plastic - H2SO4	<2	<b>X</b>
Metals	Plastic - HNO3	<2	<b>X</b>
Sulfide	Plastic - NaOH/Zn Acetate	>12	<b>X</b>
Cyanide	Plastic - NaOH/Ascorbic Acid	>12	
Bacteriological	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (DW NO Chlorine Res)		<b>X</b>
Oil & Grease	Glass - HCl	<2	
TOC	Glass - HCl	<2	
TRPH	Glass - HCl	<2	
VOA	Glass - HCl	<2	<b>X</b>
SVOC	Glass - (DW NO Chlorine Res)		
Phenols	Glass - H2SO4	<2	
Other	unpreserved		<b>X</b>

**Field Instrument Ending Calibration**

pH Meter	NO	Buffer	4	<b>4.01</b>	7	<b>6.99</b>	10	<b>10.03</b>
Conductivity Meter	NO	Buffer	147		1412	<b>1413</b>	12900	
Turbidity Meter	NO	Buffer	1	<b>0.99</b>	10	<b>10.01</b>	20	
DO Meter	NO	Buffer		Adjust	<b>100.00%</b>	From	<b>99.90%</b>	

General Site Information/Comments:

Next event **When Needed**

**C.O.C. # 2033316**

**Field Book # 17 pg 64**

**ANALYTICAL FIELD DATA**

Project Name *(AWE) Inj. Well*  
 Date *01/21/09*

LOCATION	Time	pH (SU)	Temperature (°C)	Specific Conductivity (umhos)	D.O. (mg/L)	Turbidity (NTUs)	Residual Chlorine (mg/L)	Comments
LNZ-Upper	14:30	8.74	28.00	19.90ms/cm	3.68	27.10		see below

**Notes:**

*LNZ-Upper: Conductivity read in ms/cm.*

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**BOTTLE CUSTODY FORM \*\* AND SAMPLING INSTRUCTIONS**

Project Name: All Web's Enterprises/Okeechobee Landfill  
 Project Manager: Don Hash  
 Prepared and Relinquished by: [Signature]  
 Received by: \_\_\_\_\_

Date Needed: \_\_\_\_\_  
 Ship Via: Courier  
 Date: 1-12-09  
 Date Received: \_\_\_\_\_

Bottle Type and Size	# of Bottles	Analysis	Preservative	Comments	Bottle ID
<b>Primary &amp; Secondary Inorganic Chemical Analyses (Includes Nitrate/Nitrite)</b>					
500 ml P	1	1° and 2° Metals	HNO <sub>3</sub>	1 bottle per sample site <b>Caution - Contains Acid</b>	<b>A</b>
250 ml P	1	Cyanide	NaOH <b>Rinse Vial of Ascorbic Acid into Sample if Chlorinated</b>	1 bottle per sample site, <b>Caution - Contains Base</b>	<b>B</b>
1 L P	1	NO <sub>3</sub> , NO <sub>2</sub> , Cl, SO <sub>4</sub> , F, pH, Color, TDS, MBAS	None	1 bottle per sample site. <b>Nitrate and Nitrite have a 48 hr. hold time</b>	<b>C</b>
1L A G	1	Odor	None	<b>1 Bottle per Site, 6 hr. Holding Time</b>	<b>D</b>
125 ml P	1	NO <sub>x</sub>	H <sub>2</sub> SO <sub>4</sub>	<b>1 Bottle per Sample Site - Caution - Contains Acid</b>	<b>S</b>
Miscellaneous Notes: Place samples on ice immediately after sampling and maintain at 4°C. <b>Do not rinse containers before collection.</b>					

**Preservatives:** Nitric Acid (HNO<sub>3</sub>) = Red; Zinc Acetate = Green; Hydrochloric Acid (HCl) = Blue; Sodium Thiosulfate (Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>) = Orange; Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>) = Yellow  
**Bottles:** A = Amber glass; G = glass; J = jar; P = Polyethylene; V = vial

\*\*This form serves as a custody record of bottles from the laboratory to the field personnel. A formal sampling Chain of Custody must also be completed for submission with samples to the laboratory.

**PLEASE SIGN & RETURN THIS FORM WITH YOUR SAMPLES**

**BOTTLE CUSTODY FORM \*\* AND SAMPLING INSTRUCTIONS**

Project Name: All Web's Enterprises/Okeechobee Landfill  
 Project Manager: Don Hash  
 Prepared and Relinquished by: *[Signature]*  
 Received by: \_\_\_\_\_

Date Needed: \_\_\_\_\_  
 Ship Via: Courier  
 Date: 2-12-09  
 Date Received: \_\_\_\_\_

Bottle Type And Size	# of Bottles	Analysis	Preservative	Comments	Bottle ID
<b>Volatiles, Radiochemical Analysis</b>					
40 ml VOA	3	VOC, THMs	1:1 HCl	3Vials per Sample Site, Caution – Contains Acid Add 3-4 Drops Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> per Vial if Chlorinated	F
1 LP	3	Gross Alpha, Rad 226, Rad 228	1:1 HNO <sub>3</sub>	3 Bottles per Sample Site, Caution – Contains Acid	Q
120 ml Sterile	1	Total Coliform	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	1 Bottle per Sample Site	R
Miscellaneous Notes: Place samples on ice immediately after sampling and maintain at 4°C. <b><u>Do not rinse containers before collection.</u></b> <b>VOC Trip Blank enclosed, DO NOT OPEN</b>					

**Preservatives:** Nitric Acid (HNO<sub>3</sub>) = Red; Zinc Acetate = Green; Hydrochloric Acid (HCl) = Blue; Sodium Thiosulfate (Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>) = Orange; Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>) = Yellow  
**Bottles:** A = Amber glass; G = glass; J = jar; P = Polyethylene; V = vial

\*\*This form serves as a custody record of bottles from the laboratory to the field personnel. A formal sampling Chain of Custody must also be completed for submission with samples to the laboratory.

**PLEASE SIGN & RETURN THIS FORM WITH YOUR SAMPLES**

**BOTTLE CUSTODY FORM \*\* AND SAMPLING INSTRUCTIONS**

Project Name: All Web's Enterprises/Okeechobee Landfill  
 Project Manager: Don Hash  
 Prepared and Relinquished by: [Signature]  
 Received by: \_\_\_\_\_

Date Needed: \_\_\_\_\_  
 Ship Via: Courier  
 Date: 1-12-09  
 Date Received: \_\_\_\_\_

Bottle Type and Size	# of Bottles	Analysis	Preservative	Comments	Bottle ID
<b>Pesticides/PCB Chemical Analyses (SOC)</b>					
40 ml VOA	3	504 (EDB/DBPC)	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	3 vials per sample site.	<b>G</b>
1 L A G	1	515.1	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	1 bottle per sample site	<b>H</b>
1 L A G	3	525.2	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	3 bottles per sample site.	<b>J</b>
125 ml A G	1	531.1 (Carbamates), Unregulated Group III	Monochloroacetic Acid Buffer (MCAAB) Add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> to sample after collection if chlorinated sample	1 bottle per sample site <b>Caution – Contains Acid</b>	<b>K</b>
125 ml A G	1	547 (Glyphosate)	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	1 bottle per sample site.	<b>L</b>
40 ml V	3	548 (Endothall)	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	3 vials per sample site.	<b>M</b>
1 L A P	1	549 (Diquat)	H <sub>2</sub> SO <sub>4</sub>  Add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> to sample after collection if chlorinated sample	1 bottle per sample site <b>Caution – Contains Acid</b>	<b>N</b>
40 ml VOA	3	505	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	1 bottle per sample site	<b>P</b>

Miscellaneous Notes: Place samples on ice immediately after sampling and maintain at 4°C. **Do not rinse containers before collection.**

**Preservatives:** Nitric Acid (HNO<sub>3</sub>) = Red; Zinc Acetate = Green; Hydrochloric Acid (HCl) = Blue; Sodium Thiosulfate (Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>) = Orange; Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>) = Yellow

**Bottles:** A = Amber glass; G = glass; J = jar; P = Polyethylene; V = vial

\*\*This form serves as a custody record of bottles from the laboratory to the field personnel. A formal sampling Chain of Custody must also be completed for submission with samples to the laboratory.

**PLEASE SIGN & RETURN THIS FORM WITH YOUR SAMPLES**

**BOTTLE CUSTODY FORM \*\* AND SAMPLING INSTRUCTIONS**

Project Name: All Web's Enterprises/Okeechobee Landfill  
 Project Manager: Don Hash  
 Prepared and Relinquished by: *[Signature]*  
 Received by: \_\_\_\_\_

Date Needed: \_\_\_\_\_  
 Ship Via: Courier  
 Date: 1-12-09  
 Date Received: \_\_\_\_\_

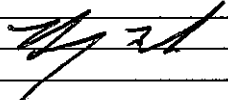
Bottle Type and Size	# of Bottles	Analysis	Preservative	Comments	Bottle ID
<b>Primary &amp; Secondary Inorganic Chemical Analyses (Includes Nitrate/Nitrite)</b>					
500 ml P	1	1° and 2° Metals	HNO <sub>3</sub>	1 bottle per sample site <b>Caution - Contains Acid</b>	<b>A</b>
250 ml P	1	Cyanide	NaOH <b>Rinse Vial of Ascorbic Acid into Sample if Chlorinated</b>	1 bottle per sample site, <b>Caution - Contains Base</b>	<b>B</b>
1 L P	1	NO <sub>3</sub> , NO <sub>2</sub> , Cl, SO <sub>4</sub> , F, pH, Color, TDS, MBAS	None	1 bottle per sample site. <b>Nitrate and Nitrite have a 48 hr. hold time</b>	<b>C</b>
1L A G	1	Odor	None	1 Bottle per Site, <b>6 hr. Holding Time</b>	<b>D</b>
125 ml P	1	NO <sub>x</sub>	H <sub>2</sub> SO <sub>4</sub>	1 Bottle per Sample Site - <b>Caution - Contains Acid</b>	<b>S</b>
Miscellaneous Notes: Place samples on ice immediately after sampling and maintain at 4°C. <b>Do not rinse containers before collection.</b>					

**Preservatives:** Nitric Acid (HNO<sub>3</sub>) = Red; Zinc Acetate = Green; Hydrochloric Acid (HCl) = Blue; Sodium Thiosulfate (Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>) = Orange; Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>) = Yellow  
**Bottles:** A = Amber glass; G = glass; J = jar; P = Polyethylene; V = vial

\*\*This form serves as a custody record of bottles from the laboratory to the field personnel. A formal sampling Chain of Custody must also be completed for submission with samples to the laboratory.

**PLEASE SIGN & RETURN THIS FORM WITH YOUR SAMPLES**

**BOTTLE CUSTODY FORM \*\* AND SAMPLING INSTRUCTIONS**

Project Name: All Web's Enterprises/Okeechobee Landfill  
 Project Manager: Don Hash  
 Prepared and Relinquished by:   
 Received by: \_\_\_\_\_

Date Needed: \_\_\_\_\_  
 Ship Via: Courier  
 Date: 2-12-09  
 Date Received: \_\_\_\_\_

Bottle Type And Size	# of Bottles	Analysis	Preservative	Comments	Bottle ID
<b>Volatiles, Radiochemical Analysis</b>					
40 ml VOA	3	VOC, THMs	1:1 HCl	3Vials per Sample Site, <b>Caution – Contains Acid</b> Add 3-4 Drops Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> per Vial if Chlorinated	F
1 L P	3	Gross Alpha, Rad 226, Rad 228	1:1 HNO <sub>3</sub>	3 Bottles per Sample Site, <b>Caution – Contains Acid</b>	Q
120 ml Sterile	1	Total Coliform	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	1 Bottle per Sample Site	R
Miscellaneous Notes: Place samples on ice immediately after sampling and maintain at 4°C. <b><u>Do not rinse containers before collection.</u></b>					
<b>VOC Trip Blank enclosed, <u>DO NOT OPEN</u></b>					

**Preservatives:** Nitric Acid (HNO<sub>3</sub>) = Red; Zinc Acetate = Green; Hydrochloric Acid (HCl) = Blue; Sodium Thiosulfate (Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>) = Orange; Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>) = Yellow  
**Bottles:** A = Amber glass; G = glass; J = jar; P = Polyethylene; V = vial

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**PLEASE SIGN & RETURN THIS FORM WITH YOUR SAMPLES**



**BOTTLE CUSTODY FORM \*\* AND SAMPLING INSTRUCTIONS**

Project Name: All Web's Enterprises/Okeechobee Landfill  
 Project Manager: Don Hash  
 Prepared and Relinquished by: *[Signature]*  
 Received by: \_\_\_\_\_

Date Needed: \_\_\_\_\_  
 Ship Via: Courier  
 Date: 1-12-09  
 Date Received: \_\_\_\_\_

Bottle Type and Size	# of Bottles	Analysis	Preservative	Comments	Bottle ID
<b>Pesticides/PCB Chemical Analyses (SOC)</b>					
40 ml VOA	3	504 (EDB/DBPC)	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	3 vials per sample site.	G
1 L A G	1	515.1	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	1 bottle per sample site	H
1 L A G	1	525.2	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	1 bottle per sample site.	J
125 ml A G	1	531.1 (Carbamates), Unregulated Group III	Monochloroacetic Acid Buffer (MCAAB) Add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> to sample after collection if chlorinated sample	1 bottle per sample site <b>Caution – Contains Acid</b>	K
125 ml A G	1	547 (Glyphosate)	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	1 bottle per sample site.	L
40 ml V	3	548 (Endothall)	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	3 vials per sample site.	M
1 L A P	1	549 (Diquat)	H <sub>2</sub> SO <sub>4</sub>  Add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> to sample after collection if chlorinated sample	1 bottle per sample site <b>Caution – Contains Acid</b>	N
40 ml VOA	3	505	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	1 bottle per sample site	P

Miscellaneous Notes: Place samples on ice immediately after sampling and maintain at 4°C. **Do not rinse containers before collection.**

**Preservatives:** Nitric Acid (HNO<sub>3</sub>) = Red; Zinc Acetate = Green; Hydrochloric Acid (HCl) = Blue; Sodium Thiosulfate (Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>) = Orange; Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>) = Yellow  
**Bottles:** A = Amber glass; G = glass; J = jar; P = Polyethylene; V = vial  
 \*\*This form serves as a custody record of bottles from the laboratory to the field personnel. A formal sampling Chain of Custody must also be completed for submission with samples to the laboratory.

**PLEASE SIGN & RETURN THIS FORM WITH YOUR SAMPLES**

# Florida Department of Environmental Protection Safe Drinking Water Program Laboratory Reporting Format

**PUBLIC WATER SYSTEM INFORMATION** (to be completed by sampler - Please type or print legibly)

System Name: \_\_\_\_\_ PWS I.D. #:

System Type (check one)     Community     Nontransient Noncommunity     Transient Noncommunity

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP Code: \_\_\_\_\_

Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

**SAMPLE INFORMATION** (to be completed by sampler)

Sample Number: \_\_\_\_\_ Location Code (if known): \_\_\_\_\_

Sample Date: 01/21/09 Sample Time: 9:00 AM

Sample Location (be specific): LMZ Lower Grab

Disinfectant Residual (Required when reporting results for trihalomethanes and haloacetic acids): \_\_\_\_\_ mg/L Field pH: \_\_\_\_\_

Sample Type (Check Only One) \_\_\_\_\_ Reason(s) for Sample (Check all that apply) \_\_\_\_\_

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Distribution                              | <input type="checkbox"/> Routine Compliance (with 62-550) | <input type="checkbox"/> Quarterly (Which Qtr? _____)             |
| <input type="checkbox"/> Entry Point (to Distribution)             | <input type="checkbox"/> Confirmation of MCL Exceedence*  | <input type="checkbox"/> Special (not for compliance with 62-550) |
| <input type="checkbox"/> Plant Tap not for compliance with 62-550) | <input type="checkbox"/> Composite of Multiple Sites**    | <input type="checkbox"/> Violation Resolution                     |
| <input type="checkbox"/> Raw (at well or intake)                   | <input type="checkbox"/> Clearance (permitting)           | <input type="checkbox"/> Replacement (of Invalidated Sample)      |
| <input type="checkbox"/> Max Residence Time                        | <input type="checkbox"/> Other: _____                     |   |
| <input type="checkbox"/> Ave Residence Time                        | Sampling Procedure Used or Other Comments: _____          |   |
| <input type="checkbox"/> Near First Customer                       |   |   |

\*See 62-550.500(6) for requirements and restrictions.  
Note: See 62-550.512(3) for additional requirements for Nitrate or Nitrite MCL exceedences.

\*\* See 62-550.550(4) for requirements and attach a results page for each site.

Sampler's Name: HARRY SHERVA

Sampler's Phone #: 772 465 2400 507 Sampler's Fax #: 772 467 1584

Sampler's E-Mail Address: \_\_\_\_\_

**CERTIFICATION** (to be completed by sampler)

I, Don Hash \_\_\_\_\_, SR PROJ MGR \_\_\_\_\_  
Print Name Print Title

do HEREBY CERTIFY that the above ~~public water system and~~ sample collection information is completed and correct.

Signature:  Date: 2/12/09

# Florida Department of Environmental Protection Safe Drinking Water Program Laboratory Reporting Format

## LABORATORY CERTIFICATION INFORMATION (to be completed by lab - Please type or print legibly)

ATTACH A CURRENT DOH ANALYTE SHEET

Lab Name: HBEL, Inc. Florida Certification #: E96080  
 Address: 5600 US 1 North Certification Expiration Date: 06/30/2009  
Fort Pierce, FL 34946 Phone #: (772) 465-8584

**ANALYSIS INFORMATION** (to be completed by lab) Date Sample(s) Received: 1/21/09  
 PWS ID (From Page 1): \_\_\_\_\_ Sample Number (From Page 1): \_\_\_\_\_  
 Lab Assigned Report Number or Job ID: 2033316001

Group(s) Analyzed and Results attached for compliance with Chapter 62-550, F.A.C. (Check all that apply):

- |   |   |   |   |
|---|---|---|---|
| <p><u>Inorganics</u></p> <input type="checkbox"/> All 17<br><input checked="" type="checkbox"/> Partial<br><input type="checkbox"/> Nitrate<br><input type="checkbox"/> Nitrite<br><input type="checkbox"/> Asbestos Only | <p><u>Synthetic Organics</u></p> <input type="checkbox"/> All 30<br><input checked="" type="checkbox"/> All Except Dioxin<br><input type="checkbox"/> Partial<br><input type="checkbox"/> Dioxin Only | <p><u>Volatile Organics</u></p> <input checked="" type="checkbox"/> All 21<br><input type="checkbox"/> Partial<br><p><u>Radionuclides</u></p> <input checked="" type="checkbox"/> Single Sample<br><input type="checkbox"/> Qtrly Composite** | <p><u>Disinfection Byproducts</u></p> <input checked="" type="checkbox"/> Trihalomethanes<br><input type="checkbox"/> Haloacetic Acids<br><input type="checkbox"/> Bromate<br><input type="checkbox"/> Chlorite<br><p><u>Secondaries</u></p> <input checked="" type="checkbox"/> All 14<br><input type="checkbox"/> Partial |
|---|---|---|---|

Were any analyses subcontracted?  Yes  No

If yes, please provide DOH certification numbers: E84129

ATTACH DOH ANALYTE SHEET FOR EACH SUBCONTRACTED LAB

## CERTIFICATION

I, Eric Charest, Laboratory Manager  
(Print Name) (Print Title)

do HEREBY CERTIFY that all attached analytical data are correct and unless noted meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Signature  Date: 10-Feb-09

\* Failure to provide a valid and current Florida DOH lab certification number and a current Analyte Sheet for the attached analysis results will result in rejection of the report, possible enforcement against the public water system for failure to sample, and may result in notification of the DOH Bureau of Laboratory Services.

\*\* Please provide radiological sample dates locations for each quarter.

## COMPLIANCE DETERMINATION (to be completed by DEP or DOH)

Sample Collection Info Satisfactory:  Yes  No      Sample Analysis Info Satisfactory:  Yes  No

Replacement Sample(s) Requested (circle or highlight group(s) above)  Revised Report Requested (circle or highlight group(s) above)

Additional Monitoring Required (circle or highlight group(s) above)

Reason(s):  MCL(s) Exceeded       Detection(s)       Incomplete Report  
 Missing Analyte Sheet(s)       Location Unsatisfactory       Analysis Unsatisfactory  
 Other: \_\_\_\_\_

Person Notified: \_\_\_\_\_ Date Notified: \_\_\_\_\_

Comments: \_\_\_\_\_

Date Reviewed: \_\_\_\_\_ DEP/DOH Reviewing Official: \_\_\_\_\_

# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## SYNTHETIC ORGANICS 62 - 550.310 (4) (b)

Client: All Webb's Enterprises, Inc.

Workorder: Okeechobee Landfill GW

Sample Location: LMZ Lower Grab

Sample Number: 2033316001

Sampling Date: 1/21/09 9:00

PWS ID (From Page 1): \_\_\_\_\_

Date Received: 1/21/09 16:10

Contam ID	Contam Name	MCL	Units	Analysis Result	Qual.*	Analytical Method	Lab MDL	RDL	Extraction Date	Analysis Date/Time	DOH Lab Cert #
2005	Endrin	[2]	ug/L	0.10	U	EPA 505	0.10	0.01	1/22/09	1/22/09 10:16	E96080
2010	gamma-BHC (Lindane)	[0.2]	ug/L	0.020	U	EPA 505	0.020	0.02	1/22/09	1/22/09 10:16	E96080
2015	Methoxychlor	[40]	ug/L	0.044	U	EPA 505	0.044	0.1	1/22/09	1/22/09 10:16	E96080
2020	Toxaphene	[3]	ug/L	0.60	U	EPA 505	0.60	1	1/22/09	1/22/09 10:16	E96080
2031	Dalapon	[200]	ug/L	2.3	U	EPA 515.1	2.3	1	1/22/09	1/26/09 17:30	E96080
2032	Diquat	[20]	ug/L	1.9	U	EPA 549.2	1.9	0.4	1/27/09	1/29/09 12:24	E96080
2033	Endothall	[100]	ug/L	2.8	U	EPA 548.1	2.8	9	1/27/09	1/31/09 20:49	E96080
2034	Glyphosate	[700]	ug/L	13	U	EPA 547	13	6		1/29/09 14:18	E96080
2035	Di(2-ethylhexyl)adipate	[400]	ug/L	0.66	U	EPA 525.2	0.66	0.6	1/28/09	1/30/09 11:20	E96080
2036	Oxamyl	[200]	ug/L	0.13	U	EPA 531.1	0.13	2		1/28/09 19:37	E96080
2037	Simazine	[4]	ug/L	0.61	U	EPA 525.2	0.61	0.07	1/28/09	1/30/09 11:20	E96080
2039	bis(2-ethylhexyl)phthalate	[6]	ug/L	0.82	U	EPA 525.2	0.82	0.6	1/28/09	1/30/09 11:20	E96080
2040	Picloram	[500]	ug/L	0.23	U	EPA 515.1	0.23	0.1	1/22/09	1/26/09 17:30	E96080
2041	Dinoseb	[7]	ug/L	0.23	U	EPA 515.1	0.23	0.2	1/22/09	1/26/09 17:30	E96080
2042	Hexachlorocyclopentadiene	[50]	ug/L	0.23	U	EPA 525.2	0.23	0.1	1/28/09	1/30/09 11:20	E96080
2046	Carbofuran	[40]	ug/L	0.41	U	EPA 531.1	0.41	0.9		1/28/09 19:37	E96080
2050	Atrazine	[3]	ug/L	0.47	U	EPA 525.2	0.47	0.1	1/28/09	1/30/09 11:20	E96080
2051	Alachlor	[2]	ug/L	0.59	U	EPA 525.2	0.59	0.2	1/28/09	1/30/09 11:20	E96080
2065	Heptachlor	[0.4]	ug/L	0.036	U	EPA 505	0.036	0.04	1/22/09	1/22/09 10:16	E96080
2067	Heptachlor epoxide	[.2]	ug/L	0.027	U	EPA 505	0.027	0.02	1/22/09	1/22/09 10:16	E96080
2105	2,4-D	[70]	ug/L	0.22	U	EPA 515.1	0.22	0.1	1/22/09	1/26/09 17:30	E96080
2110	2,4,5-TP	[50]	ug/L	0.19	U	EPA 515.1	0.19	0.2	1/22/09	1/26/09 17:30	E96080
2274	Hexachlorobenzene	[1]	ug/L	0.30	U	EPA 525.2	0.30	0.1	1/28/09	1/30/09 11:20	E96080
2306	Benzo(a)pyrene	[.2]	ug/L	0.068	U	EPA 525.2	0.068	0.02	1/28/09	1/30/09 11:20	E96080
2326	Pentachlorophenol	[1]	ug/L	0.39	U	EPA 515.1	0.39	0.04	1/22/09	1/26/09 17:30	E96080
2383	PCB	[.5]	ug/L	0.14	U	EPA 505	0.14	0.1	1/22/09	1/22/09 10:16	E96080
2931	1,2-Dibromo-3-chloropropane	[.2]	ug/L	0.0035	U	EPA 504.1	0.0035	0.02	1/30/09	1/30/09 19:36	E96080
2946	1,2-Dibromoethane	[.02]	ug/L	0.0046	U	EPA 504.1	0.0046	0.01	1/30/09	1/30/09 19:36	E96080
2959	Chlordane	[2]	ug/L	0.13	U	EPA 505	0.13	0.2	1/22/09	1/22/09 10:16	E96080

Reporting Format 62-550.730  
Effective January 1995, Revised January 2007

NOTE: Results indicating non-detection with a reported lab MDL >50% of the MCL will not be accepted for compliance with 62-550.310(4)(b).

\* Results must be reported with appropriate qualifiers in accordance with Florida Administrative Code Rule 62-160, Table 1. Results Qualified with A, F, H, N, O, T, Z, ?, \*, are unacceptable for compliance with 62-550. Results qualified with a J, Q, R, or Y must be accompanied by written justification and will be evaluated on a case by case basis. To avoid a monitoring violation, unacceptable results must be replaced with acceptable results from samples collected during the same monitoring period.

5600 US 1 North  
Fort Pierce, FL 34946  
FDOH # E96080

4155 St. Johns Pkwy Suite 1300  
Sanford, FL 32771  
FDOH # E83509

Printed: 2/10/09



# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## VOLATILE ORGANICS 62 - 550.310 (4) (a)

Client: All Webb's Enterprises, Inc.  
Sample Location: LMZ Lower Grab  
Sampling Date: 1/21/09 9:00  
Date Received: 1/21/09 16:10

Workorder: Okeechobee Landfill GW  
Sample Number: 2033316001  
PWS ID (From Page 1): \_\_\_\_\_

Contam ID	Contam Name	MCL	Units	Analysis Result	Qual.*	Analytical Method	Lab MDL	RDL	Analysis Date/Time	DOH Lab Cert #
2378	1,2,4-Trichlorobenzene	[70]	ug/L	0.41	U	EPA 524.2	0.41	0.5	2/04/09 1:19	E96080
2380	cis-1,2-Dichloroethene	[70]	ug/L	0.21	U	EPA 524.2	0.21	0.5	2/04/09 1:19	E96080
2955	Total Xylenes	[10000]	ug/L	0.46	U	EPA 524.2	0.46	0.5	2/04/09 1:19	E96080
2964	Dichloromethane	[5]	ug/L	0.23	U	EPA 524.2	0.23	0.5	2/04/09 1:19	E96080
2968	1,2-Dichlorobenzene	[600]	ug/L	0.21	U	EPA 524.2	0.21	0.5	2/04/09 1:19	E96080
2969	1,4-Dichlorobenzene	[75]	ug/L	0.23	U	EPA 524.2	0.23	0.5	2/04/09 1:19	E96080
2976	Vinyl chloride	[1]	ug/L	0.32	U	EPA 524.2	0.32	0.5	2/04/09 1:19	E96080
2977	1,1-Dichloroethene	[7]	ug/L	0.23	U	EPA 524.2	0.23	0.5	2/04/09 1:19	E96080
2979	trans-1,2-Dichloroethene	[100]	ug/L	0.35	U	EPA 524.2	0.35	0.5	2/04/09 1:19	E96080
2980	1,2-Dichloroethane	[3]	ug/L	0.29	U	EPA 524.2	0.29	0.5	2/04/09 1:19	E96080
2981	1,1,1-Trichloroethane	[200]	ug/L	0.21	U	EPA 524.2	0.21	0.5	2/04/09 1:19	E96080
2982	Carbon tetrachloride	[3]	ug/L	0.24	U	EPA 524.2	0.24	0.5	2/04/09 1:19	E96080
2983	1,2-Dichloropropane	[5]	ug/L	0.40	U	EPA 524.2	0.40	0.5	2/04/09 1:19	E96080
2984	Trichloroethene	[3]	ug/L	0.36	U	EPA 524.2	0.36	0.5	2/04/09 1:19	E96080
2985	1,1,2-Trichloroethane	[5]	ug/L	0.44	U	EPA 524.2	0.44	0.5	2/04/09 1:19	E96080
2987	Tetrachloroethene	[3]	ug/L	0.24	U	EPA 524.2	0.24	0.5	2/04/09 1:19	E96080
2989	Chlorobenzene	[100]	ug/L	0.30	U	EPA 524.2	0.30	0.5	2/04/09 1:19	E96080
2990	Benzene	[1]	ug/L	0.20	U	EPA 524.2	0.20	0.5	2/04/09 1:19	E96080
2991	Toluene	[1000]	ug/L	0.22	U	EPA 524.2	0.22	0.5	2/04/09 1:19	E96080
2992	Ethylbenzene	[700]	ug/L	0.21	U	EPA 524.2	0.21	0.5	2/04/09 1:19	E96080
2996	Styrene	[70]	ug/L	0.21	U	EPA 524.2	0.21	0.5	2/04/09 1:19	E96080

Reporting Format 62-550.730  
Effective January 1995, Revised January 2007

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5600 US 1 North  
Fort Pierce, FL 34946  
FDOH # E96080

4155 St. Johns Pkwy Suite 1300  
Sanford, FL 32771  
FDOH # E83509

Printed: 2/10/09



# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## DISINFECTION BYPRODUCTS ANALYSES

62-550.310(3)

Client: All Webb's Enterprises, Inc. Report Number/ Job ID Okeechobee Landfill GW  
Sample Location: LMZ Lower Grab Disinfectant Residual (mg/L) \_\_\_\_\_  
Sample Number: 2033316001 PWS ID \_\_\_\_\_  
Sampling Date: 1/21/09 9:00  
Date Received: 1/21/09 16:10

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	Analysis Date	Analysis Time	DOH Lab Cert. #
2941	Chloroform	[N/A]	ug/L	0.25	U	EPA 524.2	0.25	2/04/09	1:19 AM	E96080
2942	Bromoform	[N/A]	ug/L	0.41	U	EPA 524.2	0.41	2/04/09	1:19 AM	E96080
2943	Bromodichloromethane	[N/A]	ug/L	0.25	U	EPA 524.2	0.25	2/04/09	1:19 AM	E96080
2944	Dibromochloromethane	[N/A]	ug/L	0.30	U	EPA 524.2	0.30	2/04/09	1:19 AM	E96080
2950	Total Trihalomethanes	[80]	ug/L	0.25	U	EPA 524.2	0.25	2/04/09	1:19 AM	E96080

**NOTE:** Do not round values. Report results to the accuracy, precision, and sensitivity of the analytical method used.

Reporting Format 62-550.730  
Effective January 1995, Revised January 2007

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FDOH # E96080

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FDOH # E83509

Printed: 2/10/09



# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## INORGANIC CONTAMINANTS

62 - 550.310 (1)

Client: All Webb's Enterprises, Inc.

Workorder: Okeechobee Landfill GW

Sample Location: LMZ Lower Grab

Sample Number: 2033316001

Sampling Date: 1/21/09 9:00

PWS ID (From Page 1): \_\_\_\_\_

Date Received: 1/21/09 16:10

Contam ID	Contam Name	MCL	Units	Analysis Result	Qual.*	Analytical Method	Lab MDL	Analysis Date/Time	DOH Lab Cert #
1040	Nitrate as N	[10]	mg/L	0.0075	U	EPA 353.2	0.0075	2/02/09 16:18	E96080
1041	Nitrite as N	[1]	mg/L	0.015	I	EPA 353.2	0.0040	1/22/09 12:28	E96080
1005	Arsenic	[0.01]	mg/L	0.0026	U	EPA 200.7	0.0026	1/28/09 13:42	E84129
1010	Barium	[2]	mg/L	0.074		EPA 200.7	0.0018	1/28/09 13:42	E96080
1015	Cadmium	[0.005]	mg/L	0.00070	U	EPA 200.7	0.00070	1/28/09 13:42	E96080
1020	Chromium	[0.1]	mg/L	0.0020	I	EPA 200.7	0.0018	1/28/09 13:42	E96080
1024	Cyanide	[0.2]	mg/L	0.010	I	SM4500CN E	0.0047	1/29/09 11:38	E96080
1025	Fluoride	[4]	mg/L	0.43		SM4500F C	0.024	1/22/09 14:00	E96080
1030	Lead	[0.015]	mg/L	0.0030	U	EPA 200.7	0.0030	1/28/09 13:42	E96080
1035	Mercury	[0.002]	mg/L	0.000060	U	EPA 245.1	0.000060	1/30/09 14:06	E96080
1036	Nickel	[0.1]	mg/L	0.0020	U	EPA 200.7	0.0020	1/28/09 13:42	E96080
1045	Selenium	[0.05]	mg/L	0.0030	U	EPA 200.7	0.0030	1/28/09 13:42	E96080
1052	Sodium	[160]	mg/L	9900		EPA 200.7	0.50	1/28/09 13:42	E96080
1074	Antimony	[0.006]	mg/L	0.0023	U	EPA 200.7	0.0023	1/28/09 13:42	E96080
1075	Beryllium	[0.004]	mg/L	0.00010	U	EPA 200.7	0.00010	1/28/09 13:42	E96080
1085	Thallium	[0.002]	mg/L	0.25		EPA 200.7	0.039	1/28/09 13:42	E96080

Reporting Format 62-550.730  
Effective January 1995, Revised January 2007

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# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## SECONDARY CONTAMINANTS

62 - 550.320

Client: All Webb's Enterprises, Inc. Workorder: Okeechobee Landfill GW  
Sample Location: LMZ Lower Grab Sample Number: 2033316001  
Sampling Date: 1/21/09 9:00 PWS ID (From Page 1): \_\_\_\_\_  
Date Received: 1/21/09 16:10

Contam ID	Contam Name	MCL	Units	Analysis Result	Qual.*	Analytical Method	Lab MDL	Analysis Date/Time	DOH Lab Cert #
1002	Aluminum	[0.2]	mg/L	0.020	U	EPA 200.7	0.020	1/28/09 13:42	E96080
1017	Chloride	[250]	mg/L	17000		EPA 300.0	100	1/27/09 13:15	E96080
1022	Copper	[1]	mg/L	0.0023	I	EPA 200.7	0.0014	1/28/09 13:42	E96080
1025	Fluoride	[2]	mg/L	0.43		SM4500F C	0.024	1/22/09 1/22/09	E96080
1028	Iron	[0.3]	mg/L	0.24		EPA 200.7	0.025	1/28/09 13:42	E96080
1032	Manganese	[0.05]	mg/L	0.012	I	EPA 200.7	0.0038	1/28/09 13:42	E96080
1050	Silver	[0.1]	mg/L	0.00064	U	EPA 200.7	0.00064	1/28/09 13:42	E96080
1055	Sulfate	[250]	mg/L	2200		EPA 300.0	28	1/27/09 13:15	E96080
1095	Zinc	[5]	mg/L	0.096		EPA 200.7	0.010	1/28/09 13:42	E96080
1905	Color	[15]	CU	6.0	I	SM2120 B	1.8	1/23/09 8:10	E96080
1920	Odor	[3]	T.O.N.	1.9	I	SM2150 B	1.0	1/22/09 13:40	E96080
1925	pH	[6.5-8.5]	SU	7.67	Q	EPA 150.1	0.200	1/22/09 18:20	E96080
1930	Total Dissolved Solids	[500]	mg/L	32000		SM2540 C	403	1/23/09 16:00	E96080
2905	Foaming Agents	[0.5]	mg/L	0.066	I	SM5540 C	0.022	1/23/09 15:20	E96080

Reporting Format 62-550.730  
Effective January 1995, Revised January 2007

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Fort Pierce, FL 34946  
FDOH # E96080

4155 St. Johns Pkwy Suite 1300  
Sanford, FL 32771  
FDOH # E83509



Printed: 2/10/09



# SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218



Harbor Branch Environmental Laboratory  
2033316  
Sample ID: 2033316 001

February 10, 2009  
Sample No.: 89227.01  
PWS ID: \_\_\_\_\_

## Radionuclides 62-550.310(6)

Contaminant ID	Contaminant Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	RDL **	Analysis Error	Analysis Date	Analysis Time	DOH Lab Certification #
4002	Gross Alpha (Incl. Uranium)	***	pCi/L	87		EPA 00-02	2.8	3	4.9	02/02/09	10:12	E84129
4020	Radium-226	5*	pCi/L	21		EPA 903.1	0.05	1	0.9	02/04/09	13:05	E84129
4030	Radium-228	5*	pCi/L	5.1		EPA RA-05	0.3	1	0.4	02/06/09	16:14	E84129

\* Combined Limit

\*\*\* If the results exceed 5 pCi/L, a measurement for radium-226 is required.

If the results exceed 15 pCi/L, measurements for radium-226 and uranium are required.

\* Qualifiers:

# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## Unregulated Group I Analysis

62 - 550.405

(PWS035)

Client: All Webb's Enterprises, Inc. Workorder: Okeechobee Landfill GW  
Sample Location: LMZ Lower Grab  
Sample Number: 2033316001  
Sampling Date: 1/21/09 9:00  
Preservative: Sodium thiosulfate, or Monochloroacetic Acid  
Date Received: 1/21/09 16:10

ID	Parameter	Result	Method	MDL	Date	Lab ID
2043	Aldicarb sulfoxide	0.36 U	ug/L EPA 531.1	0.36	1/28/09	E96080
2044	Aldicarb sulfone	0.45 U	ug/L EPA 531.1	0.45	1/28/09	E96080
2047	Aldicarb	0.54 U	ug/L EPA 531.1	0.54	1/28/09	E96080

# HBEL, Inc.

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Phone: (772) 465-8584 Fax: (772) 467-1584

## OTHER CONTAMINANTS

PWS ID:

Client: All Webb's Enterprises, Inc. Workorder: Okeechobee Landfill GW  
Sample Location: LMZ Lower Grab  
Sample Number: 2033316001  
Sampling Date: 1/21/09 9:00  
Date Received: 1/21/09 16:10

Contam ID	Contam Name	MCL	Units	Analysis Result	Qual*	Analytical Method	Lab MDL	Analysis Date/Time	DOH Lab Cert #
	Nitrate/Nitrite as N		mg/L	0.0075 U		EPA 353.2	0.0075	02/2/09 12:13	E96080
	Background on Total Coli		CFU/100 mL	140		SM9222 B	1.0	01/21/09 17:20	E96080
	Confirmed E. Coli		CFU/100 mL	1.0 U		SM9222 B	1.0	01/21/09 17:20	E96080
	Confirmed Fecal Coliform		CFU/100 mL	1.0 U		SM9222 B	1.0	01/21/09 17:20	E96080
	Confirmed Total Coliform		CFU/100 mL	1.0 U		SM9222 B	1.0	01/21/09 17:20	E96080
	Total Coliform		CFU/100 mL	1.0 U		SM9222 B	1.0	01/21/09 17:20	E96080

Reporting Format 62-550.730  
Effective January 1995, Revised January 2004

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FDOH # E96080

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Sanford, FL 32771  
FDOH # E83509

Printed: 2/10/09



# Florida Department of Environmental Protection Safe Drinking Water Program Laboratory Reporting Format

**PUBLIC WATER SYSTEM INFORMATION** (to be completed by sampler - Please type or print legibly)

System Name: \_\_\_\_\_ PWS I.D. #:

System Type (check one)     Community     Nontransient Noncommunity     Transient Noncommunity

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP Code: \_\_\_\_\_

Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

**SAMPLE INFORMATION** (to be completed by sampler)

Sample Number: \_\_\_\_\_ Location Code (if known): \_\_\_\_\_

Sample Date: 01/21/09 Sample Time: 2:30 PM

Sample Location (be specific): LMZ Upper Grab

Disinfectant Residual (Required when reporting results for trihalomethanes and haloacetic acids): \_\_\_\_\_ mg/L Field pH: \_\_\_\_\_

Sample Type (Check Only One) \_\_\_\_\_ Reason(s) for Sample (Check all that apply) \_\_\_\_\_

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Distribution                              | <input type="checkbox"/> Routine Compliance (with 62-550) | <input type="checkbox"/> Quarterly (Which Qtr? _____)             |
| <input type="checkbox"/> Entry Point (to Distribution)             | <input type="checkbox"/> Confirmation of MCL Exceedence*  | <input type="checkbox"/> Special (not for compliance with 62-550) |
| <input type="checkbox"/> Plant Tap not for compliance with 62-550) | <input type="checkbox"/> Composite of Multiple Sites**    | <input type="checkbox"/> Violation Resolution                     |
| <input type="checkbox"/> Raw (at well or intake)                   | <input type="checkbox"/> Clearance (permitting)           | <input type="checkbox"/> Replacement (of Invalidated Sample)      |
| <input type="checkbox"/> Max Residence Time                        | <input type="checkbox"/> Other: _____                     |   |
| <input type="checkbox"/> Ave Residence Time                        |   |   |
| <input type="checkbox"/> Near First Customer                       |   |   |

Sampling Procedure Used or Other Comments: \_\_\_\_\_

\*See 62-550.500(6) for requirements and restrictions.  
Note: See 62-550.512(3) for additional requirements  
for Nitrate or Nitrite MCL exceedences.

\*\* See 62-550.550(4) for requirements and  
attach a results page for each site.

Sampler's Name: HARRY SYROVA

Sampler's Phone #: 772 465 2400 507 Sampler's Fax #: 772 467 1584

Sampler's E-Mail Address: \_\_\_\_\_

**CERTIFICATION** (to be completed by sampler)

I, Don Ash, SR PRAT MGR  
Print Name Print Title

do HEREBY CERTIFY that the above ~~public water system~~ and sample collection information is completed and correct.

Signature: [Signature] Date: 2/10/09

# Florida Department of Environmental Protection Safe Drinking Water Program Laboratory Reporting Format

## LABORATORY CERTIFICATION INFORMATION (to be completed by lab - Please type or print legibly)

ATTACH A CURRENT DOH ANALYTE SHEET

Lab Name: HBEL, Inc. Florida Certification #: E96080  
 Address: 5600 US 1 North Certification Expiration Date: 06/30/2009  
Fort Pierce, FL 34946 Phone #: (772) 465-8584

**ANALYSIS INFORMATION** (to be completed by lab) Date Sample(s) Received: 1/21/09  
 PWS ID (From Page 1): \_\_\_\_\_ Sample Number (From Page 1): \_\_\_\_\_  
 Lab Assigned Report Number or Job ID: 2033316002

Group(s) Analyzed and Results attached for compliance with Chapter 62-550, F.A.C. (Check all that apply):

- |   |   |   |   |
|---|---|---|---|
| <u>Inorganics</u><br><input type="checkbox"/> All 17<br><input checked="" type="checkbox"/> Partial<br><input type="checkbox"/> Nitrate<br><input type="checkbox"/> Nitrite<br><input type="checkbox"/> Asbestos Only | <u>Synthetic Organics</u><br><input type="checkbox"/> All 30<br><input checked="" type="checkbox"/> All Except Dioxin<br><input type="checkbox"/> Partial<br><input type="checkbox"/> Dioxin Only | <u>Volatile Organics</u><br><input checked="" type="checkbox"/> All 21<br><input type="checkbox"/> Partial<br><br><u>Radionuclides</u><br><input checked="" type="checkbox"/> Single Sample<br><input type="checkbox"/> Qtrly Composite** | <u>Disinfection Byproducts</u><br><input checked="" type="checkbox"/> Trihalomethanes<br><input type="checkbox"/> Haloacetic Acids<br><input type="checkbox"/> Bromate<br><input type="checkbox"/> Chlorite<br><br><u>Secondaries</u><br><input checked="" type="checkbox"/> All 14<br><input type="checkbox"/> Partial |
|---|---|---|---|

Were any analyses subcontracted?  Yes  No

If yes, please provide DOH certification numbers: E84129

ATTACH DOH ANALYTE SHEET FOR EACH SUBCONTRACTED LAB

## CERTIFICATION

I, Eric Charest, Laboratory Manager  
(Print Name) (Print Title)

do HEREBY CERTIFY that all attached analytical data are correct and unless noted meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Signature  Date: 10-Feb-09

\* Failure to provide a valid and current Florida DOH lab certification number and a current Analyte Sheet for the attached analysis results will result in rejection of the report, possible enforcement against the public water system for failure to sample, and may result in notification of the DOH Bureau of Laboratory Services.

\*\* Please provide radiological sample dates locations for each quarter.

## COMPLIANCE DETERMINATION (to be completed by DEP or DOH)

- Sample Collection Info Satisfactory:  Yes  No      Sample Analysis Info Satisfactory:  Yes  No
- Replacement Sample(s) Requested (circle or highlight group(s) above)  Revised Report Requested (circle or highlight group(s) above)
- Additional Monitoring Required (circle or highlight group(s) above)
- Reason(s):  MCL(s) Exceeded       Detection(s)       Incomplete Report  
 Missing Analyte Sheet(s)       Location Unsatisfactory       Analysis Unsatisfactory  
 Other: \_\_\_\_\_

Person Notified: \_\_\_\_\_ Date Notified: \_\_\_\_\_

Comments: \_\_\_\_\_

Date Reviewed: \_\_\_\_\_ DEP/DOH Reviewing Official: \_\_\_\_\_

# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## SYNTHETIC ORGANICS 62 - 550.310 (4) (b)

Client: All Webb's Enterprises, Inc.

Workorder: Okeechobee Landfill GW

Sample Location: LMZ Upper Grab

Sample Number: 2033316002

Sampling Date: 1/21/09 14:30

PWS ID (From Page 1): \_\_\_\_\_

Date Received: 1/21/09 16:10

Contam ID	Contam Name	MCL	Units	Analysis Result	Qual.*	Analytical Method	Lab MDL	RDL	Extraction Date	Analysis Date/Time	DOH Lab Cert #
2005	Endrin	[2]	ug/L	0.10	U	EPA 505	0.10	0.01	1/22/09	1/22/09 10:45	E96080
2010	gamma-BHC (Lindane)	[0.2]	ug/L	0.020	U	EPA 505	0.020	0.02	1/22/09	1/22/09 10:45	E96080
2015	Methoxychlor	[40]	ug/L	0.044	U	EPA 505	0.044	0.1	1/22/09	1/22/09 10:45	E96080
2020	Toxaphene	[3]	ug/L	0.60	U	EPA 505	0.60	1	1/22/09	1/22/09 10:45	E96080
2031	Dalapon	[200]	ug/L	2.3	U	EPA 515.1	2.3	1	1/22/09	1/26/09 18:02	E96080
2032	Diquat	[20]	ug/L	1.9	U	EPA 549.2	1.9	0.4	1/27/09	1/29/09 12:31	E96080
2033	Endothall	[100]	ug/L	2.8	U	EPA 548.1	2.8	9	1/27/09	1/31/09 21:11	E96080
2034	Glyphosate	[700]	ug/L	13	U	EPA 547	13	6		1/29/09 14:34	E96080
2035	Di(2-ethylhexyl)adipate	[400]	ug/L	0.68	U	EPA 525.2	0.68	0.6	1/28/09	1/30/09 11:59	E96080
2036	Oxamyl	[200]	ug/L	0.13	U	EPA 531.1	0.13	2		1/28/09 20:08	E96080
2037	Simazine	[4]	ug/L	0.63	U	EPA 525.2	0.63	0.07	1/28/09	1/30/09 11:59	E96080
2039	bis(2-ethylhexyl)phthalate	[6]	ug/L	0.85	U	EPA 525.2	0.85	0.6	1/28/09	1/30/09 11:59	E96080
2040	Picloram	[500]	ug/L	0.23	U	EPA 515.1	0.23	0.1	1/22/09	1/26/09 18:02	E96080
2041	Dinoseb	[7]	ug/L	0.23	U	EPA 515.1	0.23	0.2	1/22/09	1/26/09 18:02	E96080
2042	Hexachlorocyclopentadiene	[50]	ug/L	0.24	U	EPA 525.2	0.24	0.1	1/28/09	1/30/09 11:59	E96080
2046	Carbofuran	[40]	ug/L	0.41	U	EPA 531.1	0.41	0.9		1/28/09 20:08	E96080
2050	Atrazine	[3]	ug/L	0.48	U	EPA 525.2	0.48	0.1	1/28/09	1/30/09 11:59	E96080
2051	Alachlor	[2]	ug/L	0.61	U	EPA 525.2	0.61	0.2	1/28/09	1/30/09 11:59	E96080
2065	Heptachlor	[0.4]	ug/L	0.036	U	EPA 505	0.036	0.04	1/22/09	1/22/09 10:45	E96080
2067	Heptachlor epoxide	[.2]	ug/L	0.027	U	EPA 505	0.027	0.02	1/22/09	1/22/09 10:45	E96080
2105	2,4-D	[70]	ug/L	0.22	U	EPA 515.1	0.22	0.1	1/22/09	1/26/09 18:02	E96080
2110	2,4,5-TP	[50]	ug/L	0.19	U	EPA 515.1	0.19	0.2	1/22/09	1/26/09 18:02	E96080
2274	Hexachlorobenzene	[1]	ug/L	0.31	U	EPA 525.2	0.31	0.1	1/28/09	1/30/09 11:59	E96080
2306	Benzo(a)pyrene	[.2]	ug/L	0.070	U	EPA 525.2	0.070	0.02	1/28/09	1/30/09 11:59	E96080
2326	Pentachlorophenol	[1]	ug/L	0.39	U	EPA 515.1	0.39	0.04	1/22/09	1/26/09 18:02	E96080
2383	PCB	[.5]	ug/L	0.14	U	EPA 505	0.14	0.1	1/22/09	1/22/09 10:45	E96080
2931	1,2-Dibromo-3-chloropropane	[.2]	ug/L	0.0035	U	EPA 504.1	0.0035	0.02	1/30/09	1/30/09 20:07	E96080
2946	1,2-Dibromoethane	[.02]	ug/L	0.0046	U	EPA 504.1	0.0046	0.01	1/30/09	1/30/09 20:07	E96080
2959	Chlordane	[2]	ug/L	0.13	U	EPA 505	0.13	0.2	1/22/09	1/22/09 10:45	E96080

Reporting Format 62-550.730  
Effective January 1995, Revised January 2007

NOTE: Results indicating non-detection with a reported lab MDL >50% of the MCL will not be accepted for compliance with 62-550.310(4)(b).

\* Results must be reported with appropriate qualifiers in accordance with Florida Administrative Code Rule 62-160, Table 1. Results Qualified with A, F, H, N, O, T, Z, ?, \*, are unacceptable for compliance with 62-550. Results qualified with a J, Q, R, or Y must be accompanied by written justification and will be evaluated on a case by case basis. To avoid a monitoring violation, unacceptable results must be replaced with acceptable results from samples collected during the same monitoring period.

5600 US 1 North  
Fort Pierce, FL 34946  
FDOH # E96080

4155 St. Johns Pkwy Suite 1300  
Sanford, FL 32771  
FDOH # E83509

Printed: 2/10/09



# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## INORGANIC CONTAMINANTS

62 - 550.310 (1)

Client: All Webb's Enterprises, Inc.

Workorder: Okeechobee Landfill GW

Sample Location: LMZ Upper Grab

Sample Number: 2033316002

Sampling Date: 1/21/09 14:30

PWS ID (From Page 1): \_\_\_\_\_

Date Received: 1/21/09 16:10

Contam ID	Contam Name	MCL	Units	Analysis Result	Qual.*	Analytical Method	Lab MDL	Analysis Date/Time	DOH Lab Cert #
1040	Nitrate as N	[10]	mg/L	0.0075	U	EPA 353.2	0.0075	2/02/09 16:18	E96080
1041	Nitrite as N	[1]	mg/L	0.0040	U	EPA 353.2	0.0040	1/22/09 12:28	E96080
1005	Arsenic	[0.01]	mg/L	0.0063	I	EPA 200.7	0.0026	1/28/09 13:48	E84129
1010	Barium	[2]	mg/L	0.11		EPA 200.7	0.0018	1/28/09 13:48	E96080
1015	Cadmium	[0.005]	mg/L	0.00070	U	EPA 200.7	0.00070	1/28/09 13:48	E96080
1020	Chromium	[0.1]	mg/L	0.0079		EPA 200.7	0.0018	1/28/09 13:48	E96080
1024	Cyanide	[0.2]	mg/L	0.0082	I	SM4500CN E	0.0047	1/29/09 11:38	E96080
1025	Fluoride	[4]	mg/L	0.48		SM4500F C	0.024	1/22/09 14:00	E96080
1030	Lead	[0.015]	mg/L	0.0030	U	EPA 200.7	0.0030	1/28/09 13:48	E96080
1035	Mercury	[0.002]	mg/L	0.000060	U	EPA 245.1	0.000060	1/30/09 14:10	E96080
1036	Nickel	[0.1]	mg/L	0.0020	U	EPA 200.7	0.0020	1/28/09 13:48	E96080
1045	Selenium	[0.05]	mg/L	0.0030	U	EPA 200.7	0.0030	1/28/09 13:48	E96080
1052	Sodium	[160]	mg/L	6300		EPA 200.7	0.50	1/28/09 13:48	E96080
1074	Antimony	[0.006]	mg/L	0.0023	U	EPA 200.7	0.0023	1/28/09 13:48	E96080
1075	Beryllium	[0.004]	mg/L	0.00010	U	EPA 200.7	0.00010	1/28/09 13:48	E96080
1085	Thallium	[0.002]	mg/L	0.14	I	EPA 200.7	0.039	1/28/09 13:48	E96080

Reporting Format 62-550.730  
Effective January 1995, Revised January 2007

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Fort Pierce, FL 34946  
FDOH # E96080

4155 St. Johns Pkwy Suite 1300  
Sanford, FL 32771  
FDOH # E83509

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# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## SECONDARY CONTAMINANTS

62 - 550.320

Client: All Webb's Enterprises, Inc. Workorder: Okeechobee Landfill GW  
Sample Location: LMZ Upper Grab Sample Number: 2033316002  
Sampling Date: 1/21/09 14:30 PWS ID (From Page 1): \_\_\_\_\_  
Date Received: 1/21/09 16:10

Contam ID	Contam Name	MCL	Units	Analysis Result	Qual.*	Analytical Method	Lab MDL	Analysis Date/Time	DOH Lab Cert #
1002	Aluminum	[0.2]	mg/L	0.44		EPA 200.7	0.020	1/28/09 13:48	E96080
1017	Chloride	[250]	mg/L	10000		EPA 300.0	100	2/02/09 10:43	E96080
1022	Copper	[1]	mg/L	0.0019	I	EPA 200.7	0.0014	1/28/09 13:48	E96080
1025	Fluoride	[2]	mg/L	0.48		SM4500F C	0.024	1/22/09/22/09	E96080
1028	Iron	[0.3]	mg/L	1.7		EPA 200.7	0.025	1/28/09 13:48	E96080
1032	Manganese	[0.05]	mg/L	0.031		EPA 200.7	0.0038	1/28/09 13:48	E96080
1050	Silver	[0.1]	mg/L	0.00064	U	EPA 200.7	0.00064	1/28/09 13:48	E96080
1055	Sulfate	[250]	mg/L	1200		EPA 300.0	28	2/02/09 10:43	E96080
1095	Zinc	[5]	mg/L	0.036	I	EPA 200.7	0.010	1/28/09 13:48	E96080
1905	Color	[15]	CU	6.0	I	SM2120 B	1.8	1/23/09 8:15	E96080
1920	Odor	[3]	T.O.N.	2.9	I	SM2150 B	1.0	1/22/09 13:40	E96080
1925	pH	[6.5-8.5]	SU	8.44	Q	EPA 150.1	0.200	1/22/09 18:20	E96080
1930	Total Dissolved Solids	[500]	mg/L	20000		SM2540 C	403	1/23/09 16:00	E96080
2905	Foaming Agents	[0.5]	mg/L	0.081	I	SM5540 C	0.022	1/23/09 15:20	E96080

Reporting Format 62-550.730  
Effective January 1995, Revised January 2007

\* Results must be reported with appropriate qualifiers in accordance with Florida Administrative Code Rule 62-160, Table 1. Results Qualified with A, F, H, N, O, T, Z, ?, \*, are unacceptable for compliance with 62-550. Results qualified with a J, Q, R, or Y must be accompanied by written justification and will be evaluated on a case by case basis. To avoid a monitoring violation, unacceptable results must be replaced with acceptable results from samples collected during the same monitoring period.

5600 US 1 North  
Fort Pierce, FL 34946  
FDOH # E96080

4155 St. Johns Pkwy Suite 1300  
Sanford, FL 32771  
FDOH # E83509

Printed: 2/10/09





# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## DISINFECTION BYPRODUCTS ANALYSES 62-550.310(3)

Client: All Webb's Enterprises, Inc. Report Number/ Job ID Okeechobee Landfill GW  
Sample Location: LMZ Upper Grab Disinfectant Residual (mg/L) \_\_\_\_\_  
Sample Number: 2033316002 PWS ID \_\_\_\_\_  
Sampling Date: 1/21/09 14:30  
Date Received: 1/21/09 16:10

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	Analysis Date	Analysis Time	DOH Lab Cert. #
2941	Chloroform	[N/A]	ug/L	0.25 U		EPA 524.2	0.25	2/04/09	1:51 AM	E96080
2942	Bromoform	[N/A]	ug/L	0.41 U		EPA 524.2	0.41	2/04/09	1:51 AM	E96080
2943	Bromodichloromethane	[N/A]	ug/L	0.25 U		EPA 524.2	0.25	2/04/09	1:51 AM	E96080
2944	Dibromochloromethane	[N/A]	ug/L	0.30 U		EPA 524.2	0.30	2/04/09	1:51 AM	E96080
2950	Total Trihalomethanes	[80]	ug/L	0.25 U		EPA 524.2	0.25	2/04/09	1:51 AM	E96080

**NOTE:** Do not round values. Report results to the accuracy, precision, and sensitivity of the analytical method used.

Reporting Format 62-550.730  
Effective January 1995, Revised January 2007

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Fort Pierce, FL 34946  
FDOH # E96080

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Sanford, FL 32771  
FDOH # E83509

Printed: 2/10/09



# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## VOLATILE ORGANICS

62 - 550.310 (4) (a)

Client: All Webb's Enterprises, Inc.

Workorder: Okeechobee Landfill GW

Sample Location: LMZ Upper Grab

Sample Number: 2033316002

Sampling Date: 1/21/09 14:30

PWS ID (From Page 1): \_\_\_\_\_

Date Received: 1/21/09 16:10

Contam ID	Contam Name	MCL	Units	Analysis Result	Qual.*	Analytical Method	Lab MDL	RDL	Analysis Date/Time	DOH Lab Cert #
2378	1,2,4-Trichlorobenzene	[70]	ug/L	0.41	U	EPA 524.2	0.41	0.5	2/04/09 1:51	E96080
2380	cis-1,2-Dichloroethene	[70]	ug/L	0.21	U	EPA 524.2	0.21	0.5	2/04/09 1:51	E96080
2955	Total Xylenes	[10000]	ug/L	0.46	U	EPA 524.2	0.46	0.5	2/04/09 1:51	E96080
2964	Dichloromethane	[5]	ug/L	0.23	U	EPA 524.2	0.23	0.5	2/04/09 1:51	E96080
2968	1,2-Dichlorobenzene	[600]	ug/L	0.21	U	EPA 524.2	0.21	0.5	2/04/09 1:51	E96080
2969	1,4-Dichlorobenzene	[75]	ug/L	0.23	U	EPA 524.2	0.23	0.5	2/04/09 1:51	E96080
2976	Vinyl chloride	[1]	ug/L	0.32	U	EPA 524.2	0.32	0.5	2/04/09 1:51	E96080
2977	1,1-Dichloroethene	[7]	ug/L	0.23	U	EPA 524.2	0.23	0.5	2/04/09 1:51	E96080
2979	trans-1,2-Dichloroethene	[100]	ug/L	0.35	U	EPA 524.2	0.35	0.5	2/04/09 1:51	E96080
2980	1,2-Dichloroethane	[3]	ug/L	0.29	U	EPA 524.2	0.29	0.5	2/04/09 1:51	E96080
2981	1,1,1-Trichloroethane	[200]	ug/L	0.21	U	EPA 524.2	0.21	0.5	2/04/09 1:51	E96080
2982	Carbon tetrachloride	[3]	ug/L	0.24	U	EPA 524.2	0.24	0.5	2/04/09 1:51	E96080
2983	1,2-Dichloropropane	[5]	ug/L	0.40	U	EPA 524.2	0.40	0.5	2/04/09 1:51	E96080
2984	Trichloroethene	[3]	ug/L	0.36	U	EPA 524.2	0.36	0.5	2/04/09 1:51	E96080
2985	1,1,2-Trichloroethane	[5]	ug/L	0.44	U	EPA 524.2	0.44	0.5	2/04/09 1:51	E96080
2987	Tetrachloroethene	[3]	ug/L	0.24	U	EPA 524.2	0.24	0.5	2/04/09 1:51	E96080
2989	Chlorobenzene	[100]	ug/L	0.30	U	EPA 524.2	0.30	0.5	2/04/09 1:51	E96080
2990	Benzene	[1]	ug/L	0.20	U	EPA 524.2	0.20	0.5	2/04/09 1:51	E96080
2991	Toluene	[1000]	ug/L	0.22	U	EPA 524.2	0.22	0.5	2/04/09 1:51	E96080
2992	Ethylbenzene	[700]	ug/L	0.21	U	EPA 524.2	0.21	0.5	2/04/09 1:51	E96080
2996	Styrene	[70]	ug/L	0.21	U	EPA 524.2	0.21	0.5	2/04/09 1:51	E96080

Reporting Format 62-550.730  
Effective January 1995, Revised January 2007

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Fort Pierce, FL 34946  
FDCH # E96080

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Sanford, FL 32771  
FDOH # E83509

Printed: 2/10/09



# SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218



Harbor Branch Environmental Laboratory  
2033316  
Sample ID: 2033316 002

February 10, 2009  
Sample No.: 89227.02  
PWS ID: \_\_\_\_\_

## Radionuclides 62-550.310(6)

Contaminant ID	Contaminant Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	RDL **	Analysis Error	Analysis Date	Analysis Time	DOH Lab Certification #
4002	Gross Alpha (Incl. Uranium)	***	pCi/L	38		EPA 00-02	2.8	3	3.9	01/30/09	13:48	E84129
4020	Radium-226	5*	pCi/L	13		EPA 903.1	0.06	1	0.7	02/04/09	13:05	E84129
4030	Radium-228	5*	pCi/L	4.0		EPA RA-05	0.3	1	0.4	02/06/09	16:14	E84129

\* Combined Limit

\*\*\* If the results exceed 5 pCi/L, a measurement for radium-226 is required.

If the results exceed 15 pCi/L, measurements for radium-226 and uranium are required.

\* Qualifiers:

Receiving Laboratory: SAL

The samples are to be shipped by UPS to arrive on 1-23-09. TAT: Std.

Page 4 of 4  
01  
02

HBEL, Inc.						ANALYSIS REQUIRED				COLLECTION REMARKS		
PROJECT NAME: <u>2033316</u>						PRESERVATIVE						
SAMPLE TYPE: Composite = C, Grab = G, Preservative: HCl = H, HNO <sub>3</sub> = N, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> = ST, H <sub>2</sub> SO <sub>4</sub> = S, NaOH = SH, Unpreserved = U						N	N	N				
MATRIX: Drinking Water = DW, Groundwater = GW, Surface Water = SW, Wastewater = WW, Soil or solids = S, Waste = W, Oil = O						Gross	High Solids	Red 224	Red 228			
Client Code	MATRIX	COLLECTION DATE	TIME	TYPE	HBEL SAMPLE ID	# Bottles					SAMPLE COMMENTS	
	AWE	GW	1-21-09	0900	G	2033316 001	3	✓	✓	✓		
	↓	↓	↓	1430	G	↓ 2	3	✓	✓	✓		6-ILP, HNO <sub>3</sub>
RELINQUISHED BY: <u>[Signature]</u>			DATE	TIME	RECEIVED BY: <u>UPS</u>			DATE	TIME			
			1-22-09	1600								
RELINQUISHED BY: <u>UPS</u>			DATE	TIME	LABORATORY NAME AND RECEIVED BY: <u>K. [Signature]</u>			DATE	TIME			
								1/23/09	1135			

# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## Unregulated Group I Analysis 62 - 550.405 (PWS035)

Client: All Webb's Enterprises, Inc. Workorder: Okeechobee Landfill GW  
Sample Location: LMZ Upper Grab  
Sample Number: 2033316002  
Sampling Date: 1/21/09 14:30  
Preservative: Sodium thiosulfate, or Monochloroacetic Acid  
Date Received: 1/21/09 16:10

ID	Parameter	Result	Method	MDL	Date	Lab ID
2043	Aldicarb sulfoxide	0.36 U	ug/L EPA 531.1	0.36	1/28/09	E96080
2044	Aldicarb sulfone	0.45 U	ug/L EPA 531.1	0.45	1/28/09	E96080
2047	Aldicarb	0.54 U	ug/L EPA 531.1	0.54	1/28/09	E96080

# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## OTHER CONTAMINANTS

PWS ID:

Client: All Webb's Enterprises, Inc. Workorder: Okeechobee Landfill GW  
Sample Location: LMZ Upper Grab  
Sample Number: 2033316002  
Sampling Date: 1/21/09 14:30  
Date Received: 1/21/09 16:10

Contam ID	Contam Name	MCL	Units	Analysis Result	Qual*	Analytical Method	Lab MDL	Analysis Date/Time	DOH Lab Cert #
	Nitrate/Nitrite as N		mg/L	0.0075 U		EPA 353.2	0.0075	02/2/09 12:19	E96080
	Background on Total Coli		CFU/100 mL	73		SM9222 B	1.0	01/21/09 17:20	E96080
	Confirmed E. Coli		CFU/100 mL	1.0 U		SM9222 B	1.0	01/21/09 17:20	E96080
	Confirmed Fecal Coliform		CFU/100 mL	1.0 U		SM9222 B	1.0	01/21/09 17:20	E96080
	Confirmed Total Coliform		CFU/100 mL	1.0 U		SM9222 B	1.0	01/21/09 17:20	E96080
	Total Coliform		CFU/100 mL	2.0		SM9222 B	1.0	01/21/09 17:20	E96080

Reporting Format 62-550.730  
Effective January 1995, Revised January 2004

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FDOH # E96080

4155 St. Johns Pkwy Suite 1300  
Sanford, FL 32771  
FDOH # E83509

Printed: 2/10/09



# Florida Department of Environmental Protection Safe Drinking Water Program Laboratory Reporting Format

**PUBLIC WATER SYSTEM INFORMATION** (to be completed by sampler - Please type or print legibly)

System Name: \_\_\_\_\_ PWS I.D. #:

System Type (check one)     Community     Nontransient Noncommunity     Transient Noncommunity

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP Code: \_\_\_\_\_

Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

**SAMPLE INFORMATION** (to be completed by sampler)

Sample Number: \_\_\_\_\_ Location Code (if known): \_\_\_\_\_

Sample Date: 01/21/09 Sample Time: 12:00 AM

Sample Location (be specific): Trip Blank

Disinfectant Residual (Required when reporting results for trihalomethanes and haloacetic acids): \_\_\_\_\_ mg/L Field pH: \_\_\_\_\_

Sample Type (Check Only One) \_\_\_\_\_ Reason(s) for Sample (Check all that apply) \_\_\_\_\_

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Distribution<br><input type="checkbox"/> Entry Point (to Distribution)<br><input type="checkbox"/> Plant Tap not for compliance with 62-550<br><input type="checkbox"/> Raw (at well or intake)<br><input type="checkbox"/> Max Residence Time<br><input type="checkbox"/> Ave Residence Time<br><input type="checkbox"/> Near First Customer | <input type="checkbox"/> Routine Compliance (with 62-550)<br><input type="checkbox"/> Confirmation of MCL Exceedence*<br><input type="checkbox"/> Composite of Multiple Sites**<br><input type="checkbox"/> Clearance (permitting)<br><input type="checkbox"/> Other: _____ | <input type="checkbox"/> Quarterly (Which Qtr? _____)<br><input type="checkbox"/> Special (not for compliance with 62-550)<br><input type="checkbox"/> Violation Resolution<br><input type="checkbox"/> Replacement (of Invalidated Sample) |
|--|---|---|
- Sampling Procedure Used or Other Comments: \_\_\_\_\_

\*See 62-550.500(6) for requirements and restrictions.  
 Note: See 62-550.512(3) for additional requirements  
 for Nitrate or Nitrite MCL exceedences.

\*\* See 62-550.550(4) for requirements and  
 attach a results page for each site.

Sampler's Name: \_\_\_\_\_

Sampler's Phone #: \_\_\_\_\_ Sampler's Fax #: \_\_\_\_\_

Sampler's E-Mail Address: \_\_\_\_\_

**CERTIFICATION** (to be completed by sampler)

I, \_\_\_\_\_, \_\_\_\_\_  
Print Name Print Title

do HEREBY CERTIFY that the above public water system and sample collection information is completed and correct.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Florida Department of Environmental Protection  
Safe Drinking Water Program Laboratory Reporting Format**

**LABORATORY CERTIFICATION INFORMATION** (to be completed by lab - Please type or print legibly)

ATTACH A CURRENT DOH ANALYTE SHEET

Lab Name: HBEL, Inc. Florida Certification #: E96080  
Address: 5600 US 1 North Certification Expiration Date: 06/30/2009  
Fort Pierce, FL 34946 Phone #: (772) 465-8584

**ANALYSIS INFORMATION** (to be completed by lab) Date Sample(s) Received: 1/21/09  
PWS ID (From Page 1): \_\_\_\_\_ Sample Number (From Page 1): \_\_\_\_\_  
Lab Assigned Report Number or Job ID: 2033316003

Group(s) Analyzed and Results attached for compliance with Chapter 62-550, F.A.C. (Check all that apply):

- |  |  |  |   |
|--|--|--|---|
| <u>Inorganics</u>                      | <u>Synthetic Organics</u>                  | <u>Volatile Organics</u>                   | <u>Disinfection Byproducts</u>                      |
| <input type="checkbox"/> All 17        | <input type="checkbox"/> All 30            | <input checked="" type="checkbox"/> All 21 | <input checked="" type="checkbox"/> Trihalomethanes |
| <input type="checkbox"/> Partial       | <input type="checkbox"/> All Except Dioxin | <input type="checkbox"/> Partial           | <input type="checkbox"/> Haloacetic Acids           |
| <input type="checkbox"/> Nitrate       | <input type="checkbox"/> Partial           |  | <input type="checkbox"/> Bromate                    |
| <input type="checkbox"/> Nitrite       | <input type="checkbox"/> Dioxin Only       | <u>Radionuclides</u>                       | <input type="checkbox"/> Chlorite                   |
| <input type="checkbox"/> Asbestos Only |  | <input type="checkbox"/> Single Sample     | <u>Secondaries</u>                                  |
|  |  | <input type="checkbox"/> Qtrly Composite** | <input type="checkbox"/> All 14                     |
|  |  |  | <input type="checkbox"/> Partial                    |

Were any analyses subcontracted?  Yes  No

If yes, please provide DOH certification numbers: E84129

ATTACH DOH ANALYTE SHEET FOR EACH SUBCONTRACTED LAB

**CERTIFICATION**

I, Eric Charest, Laboratory Manager  
(Print Name) (Print Title)

do HEREBY CERTIFY that all attached analytical data are correct and unless noted meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Signature  Date: 10-Feb-09

\* Failure to provide a valid and current Florida DOH lab certification number and a current Analyte Sheet for the attached analysis results will result in rejection of the report, possible enforcement against the public water system for failure to sample, and may result in notification of the DOH Bureau of Laboratory Services.

\*\* Please provide radiological sample dates/locations for each quarter.

**COMPLIANCE DETERMINATION** (to be completed by DEP or DOH)

Sample Collection Info Satisfactory:  Yes  No Sample Analysis Info Satisfactory:  Yes  No  
 Replacement Sample(s) Requested (circle or highlight group(s) above)  Revised Report Requested (circle or highlight group(s) above)  
 Additional Monitoring Required (circle or highlight group(s) above)  
Reason(s):  MCL(s) Exceeded  Detection(s)  Incomplete Report  
 Missing Analyte Sheet(s)  Location Unsatisfactory  Analysis Unsatisfactory  
 Other: \_\_\_\_\_

Person Notified: \_\_\_\_\_ Date Notified: \_\_\_\_\_

Comments: \_\_\_\_\_

Date Reviewed: \_\_\_\_\_ DEP/DOH Reviewing Official: \_\_\_\_\_



# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## DISINFECTION BYPRODUCTS ANALYSES 62-550.310(3)

Client: All Webb's Enterprises, Inc. Report Number/ Job ID Okeechobee Landfill GW  
Sample Location: Trip Blank Disinfectant Residual (mg/L) \_\_\_\_\_  
Sample Number: 2033316003 PWS ID \_\_\_\_\_  
Sampling Date: 1/21/09 0:00  
Date Received: 1/21/09 16:10

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	Analysis Date	Analysis Time	DOH Lab Cert. #
2941	Chloroform	[N/A]	ug/L	0.25	U	EPA 524.2	0.25	2/04/09	2:23 AM	E96080
2942	Bromoform	[N/A]	ug/L	0.41	U	EPA 524.2	0.41	2/04/09	2:23 AM	E96080
2943	Bromodichloromethane	[N/A]	ug/L	0.25	U	EPA 524.2	0.25	2/04/09	2:23 AM	E96080
2944	Dibromochloromethane	[N/A]	ug/L	0.30	U	EPA 524.2	0.30	2/04/09	2:23 AM	E96080
2950	Total Trihalomethanes	[80]	ug/L	0.25	U	EPA 524.2	0.25	2/04/09	2:23 AM	E96080

**NOTE:** Do not round values. Report results to the accuracy, precision, and sensitivity of the analytical method used.

Reporting Format 62-550.730  
Effective January 1995, Revised January 2007

\* Results must be reported with appropriate qualifiers in accordance with Florida Administrative Code Rule 62-160, Table 1. Results Qualified with A, F, H, N, O, T, Z, ?, \*, are unacceptable for compliance with 62-550. Results qualified with a J, Q, R, or Y must be accompanied by written justification and will be evaluated on a case by case basis. To avoid a monitoring violation, unacceptable results must be replaced with acceptable results from samples collected during the same monitoring period.

5600 US 1 North  
Fort Pierce, FL 34946  
FDOH # E96080

4155 St. Johns Pkwy Suite 1300  
Sanford, FL 32771  
FDOH # E83509

Printed: 2/10/09



# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## VOLATILE ORGANICS

62 - 550.310 (4) (a)

Client: All Webb's Enterprises, Inc.  
Sample Location: Trip Blank  
Sampling Date: 1/21/09 0:00  
Date Received: 1/21/09 16:10

Workorder: Okeechobee Landfill GW  
Sample Number: 2033316003  
PWS ID (From Page 1): \_\_\_\_\_

Contam ID	Contam Name	MCL	Units	Analysis Result	Qual.*	Analytical Method	Lab MDL	RDL	Analysis Date/Time	DOH Lab Cert #
2378	1,2,4-Trichlorobenzene	[70]	ug/L	0.41	U	EPA 524.2	0.41	0.5	2/04/09 2:23	E96080
2380	cis-1,2-Dichloroethene	[70]	ug/L	0.21	U	EPA 524.2	0.21	0.5	2/04/09 2:23	E96080
2955	Total Xylenes	[10000]	ug/L	0.46	U	EPA 524.2	0.46	0.5	2/04/09 2:23	E96080
2964	Dichloromethane	[5]	ug/L	0.23	U	EPA 524.2	0.23	0.5	2/04/09 2:23	E96080
2968	1,2-Dichlorobenzene	[600]	ug/L	0.21	U	EPA 524.2	0.21	0.5	2/04/09 2:23	E96080
2969	1,4-Dichlorobenzene	[75]	ug/L	0.23	U	EPA 524.2	0.23	0.5	2/04/09 2:23	E96080
2976	Vinyl chloride	[1]	ug/L	0.32	U	EPA 524.2	0.32	0.5	2/04/09 2:23	E96080
2977	1,1-Dichloroethene	[7]	ug/L	0.23	U	EPA 524.2	0.23	0.5	2/04/09 2:23	E96080
2979	trans-1,2-Dichloroethene	[100]	ug/L	0.35	U	EPA 524.2	0.35	0.5	2/04/09 2:23	E96080
2980	1,2-Dichloroethane	[3]	ug/L	0.29	U	EPA 524.2	0.29	0.5	2/04/09 2:23	E96080
2981	1,1,1-Trichloroethane	[200]	ug/L	0.21	U	EPA 524.2	0.21	0.5	2/04/09 2:23	E96080
2982	Carbon tetrachloride	[3]	ug/L	0.24	U	EPA 524.2	0.24	0.5	2/04/09 2:23	E96080
2983	1,2-Dichloropropane	[5]	ug/L	0.40	U	EPA 524.2	0.40	0.5	2/04/09 2:23	E96080
2984	Trichloroethene	[3]	ug/L	0.36	U	EPA 524.2	0.36	0.5	2/04/09 2:23	E96080
2985	1,1,2-Trichloroethane	[5]	ug/L	0.44	U	EPA 524.2	0.44	0.5	2/04/09 2:23	E96080
2987	Tetrachloroethene	[3]	ug/L	0.24	U	EPA 524.2	0.24	0.5	2/04/09 2:23	E96080
2989	Chlorobenzene	[100]	ug/L	0.30	U	EPA 524.2	0.30	0.5	2/04/09 2:23	E96080
2990	Benzene	[1]	ug/L	0.20	U	EPA 524.2	0.20	0.5	2/04/09 2:23	E96080
2991	Toluene	[1000]	ug/L	0.22	U	EPA 524.2	0.22	0.5	2/04/09 2:23	E96080
2992	Ethylbenzene	[700]	ug/L	0.21	U	EPA 524.2	0.21	0.5	2/04/09 2:23	E96080
2996	Styrene	[70]	ug/L	0.21	U	EPA 524.2	0.21	0.5	2/04/09 2:23	E96080

Reporting Format 62-550.730  
Effective January 1995, Revised January 2007

\* Results must be reported with appropriate qualifiers in accordance with Florida Administrative Code Rule 62-160, Table 1. Results Qualified with A, F, H, N, O, T, Z, ?, \*, unacceptable for compliance with 62-550. Results qualified with a J, Q, R, or Y must be accompanied by written justification and will be evaluated on a case by case basis. To avoid a monitoring violation, unacceptable results must be replaced with acceptable results from samples collected during the same monitoring period.

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Fort Pierce, FL 34946  
FDOH # E96080

4155 St. Johns Pkwy Suite 1300  
Sanford, FL 32771  
FDOH # E83509

Printed: 2/10/09



# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

Date issued: February 3, 2009

To: David Webb  
All Webb's Enterprises, Inc.  
309 Commerce Way  
Jupiter, FL 33458

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Client: All Webb's Enterprises, Inc.  
Workorder ID: Okeechobee Landfill OLI-IWI  
Received: 1/14/09 15:30

[2033269]

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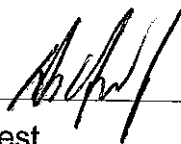
Dear David Webb;

Analytical results presented in this report have been reviewed for compliance with the HBEL, Inc. Quality Systems Manual and have been determined to meet applicable Method guidelines and Standards referenced in the July 2003 National Environmental Laboratory Accreditation Program (NELAP) Quality Manual unless otherwise noted. The Analytical Results within these report pages reflect the values obtained from tests performed on Samples As Received by the laboratory unless indicated differently.

FDOH Safe Drinking Water Act, Clean Water Act and RCRA Certification #'s:  
E96080, E83509

Questions regarding this report should be directed to the Report Signatory at (772) 465-8584 referencing the HBEL Workorder ID [Number].

Respectfully submitted,



Eric Charest  
HBEL, Inc. Laboratory Manager

Note: This report is not to be copied, except in full, without the expressed written consent of HBEL, Inc.

5600 US 1 North  
Fort Pierce, FL 34946  
FDOH # E96080

4155 St. Johns Pkwy Suite 1300  
Sanford, FL 32771  
FDOH # E83509



# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## Quality Control Summary

Client: All Webb's Enterprises, Inc.  
Workorder ID: Okeechobee Landfill OLI-IWI  
Received: 1/14/09 15:30

[2033269]

MB=Method Blank LCS=Laboratory Control Sample LCSD=Laboratory Control Sample Duplicate MS=Matrix Spike MSD=Matrix Spike Duplicate DUP=Sample Duplicate

### HBEL Sample

### Method Narratives (If Applicable)

<u>Number</u>	<u>Sample ID</u>	<u>Analytical Method</u>	<u>Description</u>
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### Quality Control Summary

<u>Method</u>	<u>HBEL Batch</u>	<u>Analyte</u>	<u>Analytical Issue</u>
EPA 505	PEST5272		
2033269001	Decachlorobiphenyl		Surrogate - Outside acceptance Limits.

# HBEL, Inc.

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 Phone: (772) 465-8584 Fax: (772) 467-1584

## CERTIFICATE OF ANALYSIS

[2033269]

Client: All Webb's Enterprises, Inc.

Workorder ID: Okeechobee Landfill OLI-IWI

Parameter	Qualifier	Result <sup>1</sup>	Units	Reporting Limit	Method	Laboratory Batch	Prep Date/Time	Analyzed Date/Time	Analyst	Lab ID
<b>Laboratory ID: 2033269001</b>						<b>Sampled: 01/14/09 14:25</b>				
<b>Sample ID: OLI-IWI Grab</b>						<b>Received: 01/14/09 15:30</b>				
						<b>Matrix: Water</b>				
						<b>Results reported on Wet Weight Basis</b>				
Gross Alpha		200 +/- 6.3	pCi/L		EPA 00-02	SAL1098		01/20/09 13:27	SAL	E84129
pH	Q	7.35	SU	0.200	EPA 150.1	WCGE30506		01/17/09 17:23	GS	E96080
Aluminum		0.020 U	mg/L	0.020	EPA 200.7	META9213	01/16/09 11:07	01/19/09 14:41	DM	E96080
Antimony		0.0023 U	mg/L	0.0023	EPA 200.7	META9213	01/16/09 11:07	01/19/09 14:41	DM	E96080
Arsenic		0.0026 U	mg/L	0.0026	EPA 200.7	META9213	01/16/09 11:07	01/19/09 14:41	DM	E96080
Barium		0.037	mg/L	0.0018	EPA 200.7	META9213	01/16/09 11:07	01/19/09 14:41	DM	E96080
Beryllium		0.00010 U	mg/L	0.00010	EPA 200.7	META9213	01/16/09 11:07	01/19/09 14:41	DM	E96080
Cadmium		0.00070 U	mg/L	0.00070	EPA 200.7	META9213	01/16/09 11:07	01/19/09 14:41	DM	E96080
Chromium		0.0020	mg/L	0.0018	EPA 200.7	META9213	01/16/09 11:07	01/19/09 14:41	DM	E96080
Copper		0.0014 U	mg/L	0.0014	EPA 200.7	META9213	01/16/09 11:07	01/19/09 14:41	DM	E96080
Iron		0.48	mg/L	0.025	EPA 200.7	META9213	01/16/09 11:07	01/19/09 14:41	DM	E96080
Lead		0.0030 U	mg/L	0.0030	EPA 200.7	META9213	01/16/09 11:07	01/19/09 14:41	DM	E96080
Manganese		0.0090	mg/L	0.0038	EPA 200.7	META9213	01/16/09 11:07	01/19/09 14:41	DM	E96080
Nickel		0.0020 U	mg/L	0.0020	EPA 200.7	META9213	01/16/09 11:07	01/19/09 14:41	DM	E96080
Selenium		0.0021 U	mg/L	0.0021	EPA 200.7	META9213	01/16/09 11:07	01/19/09 14:41	DM	E96080
Silver		0.00064 U	mg/L	0.00064	EPA 200.7	META9213	01/16/09 11:07	01/19/09 14:41	DM	E96080
Sodium		10000	mg/L	0.50	EPA 200.7	META9213	01/16/09 11:07	01/19/09 14:41	DM	E96080
Thallium		0.31	mg/L	0.039	EPA 200.7	META9213	01/16/09 11:07	01/19/09 14:41	DM	E96080
Zinc		0.057	mg/L	0.010	EPA 200.7	META9213	01/16/09 11:07	01/19/09 14:41	DM	E96080
Mercury		0.000060 U	mg/L	0.000060	EPA 245.1	META9216	01/16/09 10:48	01/21/09 11:25	DM	E96080
Chloride		20000	mg/L	200	EPA 300.0	IC7919		01/15/09 17:09	SP	E96080
Sulfate		2700	mg/L	56	EPA 300.0	IC7919		01/15/09 17:09	SP	E96080
Nitrate as N		0.0075 U	mg/L	0.0075	EPA 353.2	CALC5609		01/20/09 14:48	DH	E96080
Nitrate/Nitrite as N		0.0075 U	mg/L	0.0075	EPA 353.2	AUTO17136		01/20/09 12:50	DM	E96080
Nitrite as N		0.0077	mg/L	0.0040	EPA 353.2	AUTO17129		01/14/09 16:23	JL	E96080
1,2-Dibromo-3-chloropropane		0.0035 U	ug/L	0.0035	EPA 504.1	PEST5266	01/19/09 12:00	01/20/09 3:47	JL	E96080
1,2-Dibromoethane		0.0047 U	ug/L	0.0047	EPA 504.1	PEST5266	01/19/09 12:00	01/20/09 3:47	JL	E96080
Chlordane		0.13 U	ug/L	0.13	EPA 505	PEST5272	01/21/09 12:00	01/21/09 21:17	JL	E96080
Endrin		0.10 U	ug/L	0.10	EPA 505	PEST5272	01/21/09 12:00	01/21/09 21:17	JL	E96080
gamma-BHC (Lindane)		0.020 U	ug/L	0.020	EPA 505	PEST5272	01/21/09 12:00	01/21/09 21:17	JL	E96080
Heptachlor		0.036 U	ug/L	0.036	EPA 505	PEST5272	01/21/09 12:00	01/21/09 21:17	JL	E96080
Heptachlor epoxide		0.027 U	ug/L	0.027	EPA 505	PEST5272	01/21/09 12:00	01/21/09 21:17	JL	E96080
Methoxychlor		0.044 U	ug/L	0.044	EPA 505	PEST5272	01/21/09 12:00	01/21/09 21:17	JL	E96080
PCB		0.14 U	ug/L	0.14	EPA 505	PEST5272	01/21/09 12:00	01/21/09 21:17	JL	E96080
Toxaphene		0.60 U	ug/L	0.60	EPA 505	PEST5272	01/21/09 12:00	01/21/09 21:17	JL	E96080
2,4,5-TP		0.19 U	ug/L	0.19	EPA 515.1	PEST5274	01/22/09 7:00	01/26/09 21:49	JL	E96080
2,4-D		0.22 U	ug/L	0.22	EPA 515.1	PEST5274	01/22/09 7:00	01/26/09 21:49	JL	E96080
Dalapon		2.3 U	ug/L	2.3	EPA 515.1	PEST5274	01/22/09 7:00	01/26/09 21:49	JL	E96080
Dinoseb		0.23 U	ug/L	0.23	EPA 515.1	PEST5274	01/22/09 7:00	01/26/09 21:49	JL	E96080
Pentachlorophenol		0.39 U	ug/L	0.39	EPA 515.1	PEST5274	01/22/09 7:00	01/26/09 21:49	JL	E96080

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**Client:** All Webb's Enterprises, Inc.**Workorder ID:** Okeechobee Landfill OLI-IWI

Parameter	Qualifier	Result <sup>1</sup>	Units	Reporting Limit	Method	Laboratory Batch	Prep Date/Time	Analyzed Date/Time	Analyst	Lab ID
Picloram		<b>0.23 U</b>	ug/L	0.23	EPA 515.1	PEST5274	01/22/09 7:00	01/26/09 21:49	JL	E96080
1,1,1-Trichloroethane		<b>0.21 U</b>	ug/L	0.21	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
1,1,2-Trichloroethane		<b>0.44 U</b>	ug/L	0.44	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
1,1-Dichloroethene		<b>0.23 U</b>	ug/L	0.23	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
1,2,4-Trichlorobenzene		<b>0.41 U</b>	ug/L	0.41	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
1,2-Dichlorobenzene		<b>0.21 U</b>	ug/L	0.21	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
1,2-Dichloroethane		<b>0.29 U</b>	ug/L	0.29	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
1,2-Dichloropropane		<b>0.40 U</b>	ug/L	0.40	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
1,4-Dichlorobenzene		<b>0.23 U</b>	ug/L	0.23	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
Benzene		<b>0.20 U</b>	ug/L	0.20	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
Bromodichloromethane		<b>0.25 U</b>	ug/L	0.25	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
Bromoform		<b>0.41 U</b>	ug/L	0.41	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
Carbon tetrachloride		<b>0.24 U</b>	ug/L	0.24	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
Chlorobenzene		<b>0.30 U</b>	ug/L	0.30	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
Chloroform		<b>0.25 U</b>	ug/L	0.25	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
cis-1,2-Dichloroethene		<b>0.21 U</b>	ug/L	0.21	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
Dibromochloromethane		<b>0.30 U</b>	ug/L	0.30	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
Ethylbenzene		<b>0.21 U</b>	ug/L	0.21	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
Methylene chloride		<b>0.23 U</b>	ug/L	0.23	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
Styrene		<b>0.21 U</b>	ug/L	0.21	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
Tetrachloroethene		<b>0.24 U</b>	ug/L	0.24	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
Toluene		<b>0.22 U</b>	ug/L	0.22	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
Total THMs		<b>0.25 U</b>	ug/L	0.25	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
Total Xylenes		<b>0.46 U</b>	ug/L	0.46	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
trans-1,2-Dichloroethene		<b>0.35 U</b>	ug/L	0.35	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
Trichloroethene		<b>0.36 U</b>	ug/L	0.36	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
Vinyl chloride		<b>0.32 U</b>	ug/L	0.32	EPA 524.2	VOC3029		01/23/09 20:05	WR	E96080
Alachlor		<b>0.60 U</b>	ug/L	0.60	EPA 525.2	SVOC2727	01/18/09 8:00	01/19/09 15:39	WR	E96080
Atrazine		<b>0.47 U</b>	ug/L	0.47	EPA 525.2	SVOC2727	01/18/09 8:00	01/19/09 15:39	WR	E96080
Benzo(a)pyrene		<b>0.068 U</b>	ug/L	0.068	EPA 525.2	SVOC2727	01/18/09 8:00	01/19/09 15:39	WR	E96080
bis(2-ethylhexyl)phthalate		<b>0.83 U</b>	ug/L	0.83	EPA 525.2	SVOC2727	01/18/09 8:00	01/19/09 15:39	WR	E96080
Di(2-ethylhexyl)adipate		<b>0.66 U</b>	ug/L	0.66	EPA 525.2	SVOC2727	01/18/09 8:00	01/19/09 15:39	WR	E96080
Hexachlorobenzene		<b>0.30 U</b>	ug/L	0.30	EPA 525.2	SVOC2727	01/18/09 8:00	01/19/09 15:39	WR	E96080
Hexachlorocyclopentadiene		<b>0.23 U</b>	ug/L	0.23	EPA 525.2	SVOC2727	01/18/09 8:00	01/19/09 15:39	WR	E96080
Simazine		<b>0.62 U</b>	ug/L	0.62	EPA 525.2	SVOC2727	01/18/09 8:00	01/19/09 15:39	WR	E96080
Aldicarb		<b>0.54 U</b>	ug/L	0.54	EPA 531.1	HPLC2553		01/20/09 22:29	JJM	E96080
Aldicarb sulfone		<b>0.45 U</b>	ug/L	0.45	EPA 531.1	HPLC2553		01/20/09 22:29	JJM	E96080
Aldicarb sulfoxide		<b>0.36 U</b>	ug/L	0.36	EPA 531.1	HPLC2553		01/20/09 22:29	JJM	E96080
Carbofuran		<b>0.41 U</b>	ug/L	0.41	EPA 531.1	HPLC2553		01/20/09 22:29	JJM	E96080
Oxamyl		<b>0.13 U</b>	ug/L	0.13	EPA 531.1	HPLC2553		01/20/09 22:29	JJM	E96080
Glyphosate		<b>13 U</b>	ug/L	13	EPA 547	HPLC2552		01/19/09 13:37	JJM	E96080
Endothal		<b>2.8 U</b>	ug/L	2.8	EPA 548.1	SVOC2725	01/15/08 8:00	01/18/08 18:30	WR	E96080
Diquat		<b>1.9 U</b>	ug/L	1.9	EPA 549.2	HPLC2554	01/15/09 8:00	01/20/09 14:09	JJM	E96080

5600 US 1 North  
Fort Pierce, FL 34946  
FDOH # E960804155 St. Johns Pkwy Suite 1300  
Sanford, FL 32771  
FDOH # E83509

# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
 Phone: (772) 465-8584 Fax: (772) 467-1584

## CERTIFICATE OF ANALYSIS

[2033269]

Client: All Webb's Enterprises, Inc.

Workorder ID: Okeechobee Landfill OLI-IWI

Parameter	Qualifier	Result <sup>1</sup>	Units	Reporting Limit	Method	Laboratory Batch	Prep Date/Time	Analyzed Date/Time	Analyst	Lab ID
Radium 226		46 +/- 1.3	pCi/L		EPA 903.1	SAL1098		01/27/09 13:30	SAL	E84129
Radium 228		0.4 +/- 0.2	pCi/L		EPA Alter.	SAL1098		01/30/09 16:42	SAL	E84129
Color		1.8 U	CU	1.8	SM2120 B	WCGE30492		01/14/09 18:34	GS	E96080
Odor		8.2	T.O.N.	1.0	SM2150 B	WCGE30499		01/15/09 13:55	TR	E96080
Total Dissolved Solids		32000	mg/L	403	SM2540 C	WCGE30507		01/18/09 13:30	SP	E96080
Cyanide		0.0081	mg/L	0.0047	SM4500CN E	WCGE30553	01/27/09 11:00	01/29/09 11:38	GG	E96080
Fluoride		0.70	mg/L	0.024	SM4500F C	WCGE30512		01/22/09 14:00	SP	E96080
Surfactants as LAS, Mol.wt.340		0.036	mg/L	0.022	SM5540 C	WCGE30503	01/15/09 13:45	01/16/09 10:20	GG	E96080
Background on Total Coli		28	CFU/100mL	1.0	SM9222 B	MICR13315		01/14/09 15:30	TR	E96080
Confirmed E. Coli		1.0 U	CFU/100mL	1.0	SM9222 B	MICR13315		01/14/09 15:30	TR	E96080
Confirmed Fecal Coliform		1.0 U	CFU/100mL	1.0	SM9222 B	MICR13315		01/14/09 15:30	TR	E96080
Confirmed Total Coliform		1.0 U	CFU/100mL	1.0	SM9222 B	MICR13315		01/14/09 15:30	TR	E96080
Total Coliform		1.0 U	CFU/100mL	1.0	SM9222 B	MICR13315		01/14/09 15:30	TR	E96080

Laboratory ID: 2033269002  
 Sample ID: Trip Blank

Sampled: 01/14/09 0:00 Received: 01/14/09 15:30  
 Matrix: Water Results reported on Wet Weight Basis

1,1,1-Trichloroethane	0.21 U	ug/L	0.21	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
1,1,2-Trichloroethane	0.44 U	ug/L	0.44	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
1,1-Dichloroethene	0.23 U	ug/L	0.23	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
1,2,4-Trichlorobenzene	0.41 U	ug/L	0.41	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
1,2-Dichlorobenzene	0.21 U	ug/L	0.21	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
1,2-Dichloroethane	0.29 U	ug/L	0.29	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
1,2-Dichloropropane	0.40 U	ug/L	0.40	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
1,4-Dichlorobenzene	0.23 U	ug/L	0.23	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
Benzene	0.20 U	ug/L	0.20	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
Bromodichloromethane	0.25 U	ug/L	0.25	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
Bromoform	0.41 U	ug/L	0.41	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
Carbon tetrachloride	0.24 U	ug/L	0.24	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
Chlorobenzene	0.30 U	ug/L	0.30	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
Chloroform	0.25 U	ug/L	0.25	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
cis-1,2-Dichloroethene	0.21 U	ug/L	0.21	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
Dibromochloromethane	0.30 U	ug/L	0.30	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
Ethylbenzene	0.21 U	ug/L	0.21	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
Methylene chloride	0.23 U	ug/L	0.23	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
Styrene	0.21 U	ug/L	0.21	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
Tetrachloroethene	0.24 U	ug/L	0.24	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
Toluene	0.22 U	ug/L	0.22	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
Total THMs	0.25 U	ug/L	0.25	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
Total Xylenes	0.46 U	ug/L	0.46	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
trans-1,2-Dichloroethene	0.35 U	ug/L	0.35	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
Trichloroethene	0.36 U	ug/L	0.36	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080
Vinyl chloride	0.32 U	ug/L	0.32	EPA 524.2	VOC3029	01/23/09 20:38	WR	E96080

5600 US 1 North  
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 FDOH # E96080

4155 St. Johns Pkwy Suite 1300  
 Sanford, FL 32771  
 FDOH # E83509



# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## CERTIFICATE OF ANALYSIS

[2033269]

Client: All Webb's Enterprises, Inc.

Workorder ID: Okeechobee Landfill OLI-IWI

Parameter	Qualifier	Result <sup>1</sup>	Units	Reporting Limit	Method	Laboratory Batch	Prep Date/Time	Analyzed Date/Time	Analyst	Lab ID
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<sup>1</sup>Result Qualifiers: U = Not Detected I = Analyte detected between the Laboratory Method Detection Limit and Laboratory Reporting Limit  
Applicable Florida Department of Environmental Protection Qualifiers defined below. Statement of Estimated Uncertainty available upon request.

Q Sample held beyond the accepted holding time.





# HARBOR BRANCH ENVIRONMENTAL LABORATORIES, INC.

5600 US 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-2400, Ext. 285 Fax: (772) 467-1584

## Chain-of-Custody

and  
Agreement to Perform Services

USE BALL POINT PEN  
PRESS HARD  
COMPLETELY FILL OUT  
ALL NON GREYED AREAS  
PRINT LEGIBLY

Laboratory not responsible for omitted information  
 FDOH # E96080 FDOH # E85370  
 5600 U.S. 1 North 307 Coolidge Avenue  
 Fort Pierce, FL 34946 Lehigh Acres, FL 33936  
 FDOH # E83509 FDOH # E84418  
 4155 St. Johns Pkwy. 16331 Cortez Blvd.  
 Suite 1300 Brooksville, FL 34601  
 Sanford, FL 32771

Company: ALL WEBS Enterprise

Method(s) of Shipment: Self

Address: \_\_\_\_\_

Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Client Contact: \_\_\_\_\_

Project Name: Okeechobee Landfill

Sampled By: Harry Sharr

e-mail: \_\_\_\_\_  
 Standard Laboratory Turn Around Time  
 Or  
 Rush in \_\_\_\_\_ Business Days  
 Requires Laboratory Approval



For Lab Use Only

Temperature Checked	Custody Seals Intact	pH Checked
<input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N

LAB # 2033069

PRESERVATIVE

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ANALYSES REQUESTED

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**Preservation Key**  
 H=Hydrochloric Acid P=Phosphoric Acid  
 N=Nitric Acid ST=Sodium  
 S=Sulfuric Acid Thiosulfate  
 SH=Sodium Hydroxide U=Unpreserved

LAB ID	COLLECTION		Sample Type*	MATRIX**	# Containers	SAMPLE DESCRIPTION As Will Appear On Report	COMMENTS
	DATE	TIME					
001	1-14-09	14:25	G	GW	26	OLI-IW I	See list prep sheets
002	"	"	G	DI	3	Trip Blank	

\* Sample Type: G=Grab, C=Composite      \*\* Matrix: S=Solid, SL=Sludge, DW=Drinking Water, GW=Ground Water, SW=Surface Water, WW=Wastewater, M=Marine

Report Page 7 of 7	RELINQUISHED BY	RELINQUISHED BY	RELINQUISHED BY
	DATE/TIME	DATE/TIME	DATE/TIME
	RECEIVED BY	RECEIVED BY	RECEIVED FOR HBEL CUSTODY BY
	DATE/TIME	DATE/TIME	DATE/TIME <u>1-14-09</u>

Distribution: WHITE with REPORT; YELLOW for FILE; PINK to CLIENT; GOLD for SAMPLER

## Field Data Sheet

Sampler(s) *Harry Sherva*Date *01/14/09*

Page 1 of 2

Project Name: *All WEBBS Enterprise*

Sample Type	WW	SW	GW X	DW	DI	Sludge	Sed.	Soil
Sample Site Identification: <i>Okeechobee Landfill Injection Well</i>								
Sampling Method:	Grab X	Comp.	MW	Bailer	Pump			
Sampling Equipment <i>None well purged by client</i>								
Site & Weather Conditions <i>Cold / Partly Cloudy / Breezy</i>								

## Field Instrument Beginning Calibration

								Slope
pH Meter	YES	Buffer	4.0	<b>3.99</b>	7.0	<b>7.01</b>	10.0	<b>10.03</b>
Conductivity Meter	YES	Buffer	147		1412	<b>1414</b>	12900	
Turbidity Meter	YES	Buffer	1.0	<b>1.01</b>	10	<b>10.02</b>	20	
DO Meter	NO	Buffer	Air Cal	Adjust	<b>100.00%</b>	From	<b>98.90%</b>	

Field Filtered	Yes	No X
Field Decon	Yes	No X
Duplicate	Yes	No X

Well Diameter	Multiplier
1.5 inches	0.092
2 inches	0.163
4 inches	0.653
6 inches	1.469

Parameter	Sample Containers	pH check	
Nutrient	Plastic - H2SO4	<2	X
Metals	Plastic - HNO3	<2	X
Sulfide	Plastic - NaOH/Zn Acetate	>12	X
Cyanide	Plastic - NaOH/Ascorbic Acid	>12	X
Bacteriological	Na2S2O3 (DW NO Chlorine Res)		X
Oil & Grease	Glass - HCl	<2	
TOC	Glass - HCl	<2	
TRPH	Glass - HCl	<2	
VOA	Glass - HCl	<2	X
SVOC	Glass - (DW NO Chlorine Res)		
Phenols	Glass - H2SO4	<2	
Other	unpreserved		X

## Field Instrument Ending Calibration

pH Meter	NO	Buffer	4	<b>3.99</b>	7	<b>6.99</b>	10	<b>10.02</b>
Conductivity Meter	NO	Buffer	147		1412	<b>1411</b>	12900	
Turbidity Meter	NO	Buffer	1	<b>1.01</b>	10	<b>10.03</b>	20	
DO Meter	NO	Buffer		Adjust	<b>100.00%</b>	From	<b>99.20%</b>	

General Site Information/Comments:

Next event *When Needed*C.O.C. # *2033269*Field Book # *17 pg 61*

**ANALYTICAL FIELD DATA**

<b>Project Name</b> (AWE) GW
<b>Date</b> 01/14/09

LOCATION	Time	pH (SU)	Temperature (°C)	Specific Conductivity (umhos)	D.O. (mg/L)	Turbidity (NTUs)	Residual Chlorine (mg/L)	Comments
OLI - IW1	14:25	7.30	31.50	33.1ms/cm	5.65	2.30		see below

**Notes:**

Conductivity read in ms/cm.

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# Florida Department of Environmental Protection Safe Drinking Water Program Laboratory Reporting Format

**PUBLIC WATER SYSTEM INFORMATION** (to be completed by sampler - Please type or print legibly)

System Name: \_\_\_\_\_ PWS I.D. #:

System Type (check one)     Community     Nontransient Noncommunity     Transient Noncommunity

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP Code: \_\_\_\_\_

Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

**SAMPLE INFORMATION** (to be completed by sampler)

Sample Number: \_\_\_\_\_ Location Code (if known): \_\_\_\_\_

Sample Date: 01/14/09 Sample Time: 2:25 PM

Sample Location (be specific): OLI-IWI Grab

Disinfectant Residual (Required when reporting results for trihalomethanes and haloacetic acids): \_\_\_\_\_ mg/L Field pH: \_\_\_\_\_

Sample Type (Check Only One) \_\_\_\_\_ Reason(s) for Sample (Check all that apply) \_\_\_\_\_

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Distribution                              | <input type="checkbox"/> Routine Compliance (with 62-550) | <input type="checkbox"/> Quarterly (Which Qtr? _____)             |
| <input type="checkbox"/> Entry Point (to Distribution)             | <input type="checkbox"/> Confirmation of MCL Exceedence*  | <input type="checkbox"/> Special (not for compliance with 62-550) |
| <input type="checkbox"/> Plant Tap not for compliance with 62-550) | <input type="checkbox"/> Composite of Multiple Sites**    | <input type="checkbox"/> Violation Resolution                     |
| <input type="checkbox"/> Raw (at well or intake)                   | <input type="checkbox"/> Clearance (permitting)           | <input type="checkbox"/> Replacement (of Invalidated Sample)      |
| <input type="checkbox"/> Max Residence Time                        | <input type="checkbox"/> Other: _____                     |   |
| <input type="checkbox"/> Ave Residence Time                        | Sampling Procedure Used or Other Comments: _____          |   |
| <input type="checkbox"/> Near First Customer                       |   |   |

\*See 62-550.500(6) for requirements and restrictions.  
Note: See 62-550.512(3) for additional requirements for Nitrate or Nitrite MCL exceedences.

\*\* See 62-550.550(4) for requirements and attach a results page for each site.

Sampler's Name: ARRY SIERVA


Sampler's Phone #: 772-465-2400-507 Sampler's Fax #: 772 467 1584

Sampler's E-Mail Address: \_\_\_\_\_

**CERTIFICATION** (to be completed by sampler)

I, Don Hach \_\_\_\_\_, Sr. Proj. Mgr \_\_\_\_\_  
Print Name Print Title

do HEREBY CERTIFY that the above public water system and sample collection information is completed and correct.

Signature:  Date: 2/3/09

# Florida Department of Environmental Protection Safe Drinking Water Program Laboratory Reporting Format

## LABORATORY CERTIFICATION INFORMATION (to be completed by lab - Please type or print legibly)

ATTACH A CURRENT DOH ANALYTE SHEET

Lab Name: HBEL, Inc. Florida Certification #: E96080  
 Address: 5600 US 1 North Certification Expiration Date: 06/30/2009  
Fort Pierce, FL 34946 Phone #: (772) 465-8584

**ANALYSIS INFORMATION** (to be completed by lab) Date Sample(s) Received: 1/14/09

PWS ID (From Page 1): \_\_\_\_\_ Sample Number (From Page 1): \_\_\_\_\_

Lab Assigned Report Number or Job ID: 2033269001

Group(s) Analyzed and Results attached for compliance with Chapter 62-550, F.A.C. (Check all that apply):

- |   |   |   |   |
|---|---|---|---|
| <p><u>Inorganics</u></p> <input type="checkbox"/> All 17<br><input checked="" type="checkbox"/> Partial<br><input type="checkbox"/> Nitrate<br><input type="checkbox"/> Nitrite<br><input type="checkbox"/> Asbestos Only | <p><u>Synthetic Organics</u></p> <input type="checkbox"/> All 30<br><input checked="" type="checkbox"/> All Except Dioxin<br><input type="checkbox"/> Partial<br><input type="checkbox"/> Dioxin Only | <p><u>Volatile Organics</u></p> <input checked="" type="checkbox"/> All 21<br><input type="checkbox"/> Partial<br><p><u>Radionuclides</u></p> <input checked="" type="checkbox"/> Single Sample<br><input type="checkbox"/> Qtrly Composite** | <p><u>Disinfection Byproducts</u></p> <input checked="" type="checkbox"/> Trihalomethanes<br><input type="checkbox"/> Haloacetic Acids<br><input type="checkbox"/> Bromate<br><input type="checkbox"/> Chlorite<br><p><u>Secondaries</u></p> <input checked="" type="checkbox"/> All 14<br><input type="checkbox"/> Partial |
|---|---|---|---|

Were any analyses subcontracted?  Yes  No

If yes, please provide DOH certification numbers: E84129

ATTACH DOH ANALYTE SHEET FOR EACH SUBCONTRACTED LAB

## CERTIFICATION

I, Eric Charest, Laboratory Manager  
 (Print Name) (Print Title)

do HEREBY CERTIFY that all attached analytical data are correct and unless noted meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Signature  Date: 03-Feb-09

\* Failure to provide a valid and current Florida DOH lab certification number and a current Analyte Sheet for the attached analysis results will result in rejection of the report, possible enforcement against the public water system for failure to sample, and may result in notification of the DOH Bureau of Laboratory Services.

\*\* Please provide radiological sample dates locations for each quarter.

## COMPLIANCE DETERMINATION (to be completed by DEP or DOH)

Sample Collection Info Satisfactory:  Yes  No Sample Analysis Info Satisfactory:  Yes  No

Replacement Sample(s) Requested (circle or highlight group(s) above)  Revised Report Requested (circle or highlight group(s) above)

Additional Monitoring Required (circle or highlight group(s) above)

Reason(s):  MCL(s) Exceeded  Detection(s)  Incomplete Report  
 Missing Analyte Sheet(s)  Location Unsatisfactory  Analysis Unsatisfactory  
 Other: \_\_\_\_\_

Person Notified: \_\_\_\_\_ Date Notified: \_\_\_\_\_

Comments: \_\_\_\_\_

Date Reviewed: \_\_\_\_\_ DEP/DOH Reviewing Official: \_\_\_\_\_

# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## VOLATILE ORGANICS 62 - 550.310 (4) (a)

Client: All Webb's Enterprises, Inc.  
Sample Location: OLI-IWI Grab  
Sampling Date: 1/14/09 14:25  
Date Received: 1/14/09 15:30

Workorder: Okeechobee Landfill OLI-IWI  
Sample Number: 2033269001  
PWS ID (From Page 1): \_\_\_\_\_

Contam ID	Contam Name	MCL	Units	Analysis Result	Qual.*	Analytical Method	Lab MDL	RDL	Analysis Date/Time	DOH Lab Cert #
2378	1,2,4-Trichlorobenzene	[70]	ug/L	0.41	U	EPA 524.2	0.41	0.5	1/23/09 20:05	E96080
2380	cis-1,2-Dichloroethene	[70]	ug/L	0.21	U	EPA 524.2	0.21	0.5	1/23/09 20:05	E96080
2955	Total Xylenes	[10000]	ug/L	0.46	U	EPA 524.2	0.46	0.5	1/23/09 20:05	E96080
2964	Dichloromethane	[5]	ug/L	0.23	U	EPA 524.2	0.23	0.5	1/23/09 20:05	E96080
2968	1,2-Dichlorobenzene	[600]	ug/L	0.21	U	EPA 524.2	0.21	0.5	1/23/09 20:05	E96080
2969	1,4-Dichlorobenzene	[75]	ug/L	0.23	U	EPA 524.2	0.23	0.5	1/23/09 20:05	E96080
2976	Vinyl chloride	[1]	ug/L	0.32	U	EPA 524.2	0.32	0.5	1/23/09 20:05	E96080
2977	1,1-Dichloroethene	[7]	ug/L	0.23	U	EPA 524.2	0.23	0.5	1/23/09 20:05	E96080
2979	trans-1,2-Dichloroethene	[100]	ug/L	0.35	U	EPA 524.2	0.35	0.5	1/23/09 20:05	E96080
2980	1,2-Dichloroethane	[3]	ug/L	0.29	U	EPA 524.2	0.29	0.5	1/23/09 20:05	E96080
2981	1,1,1-Trichloroethane	[200]	ug/L	0.21	U	EPA 524.2	0.21	0.5	1/23/09 20:05	E96080
2982	Carbon tetrachloride	[3]	ug/L	0.24	U	EPA 524.2	0.24	0.5	1/23/09 20:05	E96080
2983	1,2-Dichloropropane	[5]	ug/L	0.40	U	EPA 524.2	0.40	0.5	1/23/09 20:05	E96080
2984	Trichloroethene	[3]	ug/L	0.36	U	EPA 524.2	0.36	0.5	1/23/09 20:05	E96080
2985	1,1,2-Trichloroethane	[5]	ug/L	0.44	U	EPA 524.2	0.44	0.5	1/23/09 20:05	E96080
2987	Tetrachloroethene	[3]	ug/L	0.24	U	EPA 524.2	0.24	0.5	1/23/09 20:05	E96080
2989	Chlorobenzene	[100]	ug/L	0.30	U	EPA 524.2	0.30	0.5	1/23/09 20:05	E96080
2990	Benzene	[1]	ug/L	0.20	U	EPA 524.2	0.20	0.5	1/23/09 20:05	E96080
2991	Toluene	[1000]	ug/L	0.22	U	EPA 524.2	0.22	0.5	1/23/09 20:05	E96080
2992	Ethylbenzene	[700]	ug/L	0.21	U	EPA 524.2	0.21	0.5	1/23/09 20:05	E96080
2996	Styrene	[70]	ug/L	0.21	U	EPA 524.2	0.21	0.5	1/23/09 20:05	E96080

Reporting Format 62-550.730  
Effective January 1995, Revised January 2007

\* Results must be reported with appropriate qualifiers in accordance with Florida Administrative Code Rule 62-160, Table 1. Results Qualified with A, F, H, N, O, T, Z, ?, \*, unacceptable for compliance with 62-550. Results qualified with a J, Q, R, or Y must be accompanied by written justification and will be evaluated on a case by case basis. To avoid a monitoring violation, unacceptable results must be replaced with acceptable results from samples collected during the same monitoring period.

5600 US 1 North  
Fort Pierce, FL 34946  
FDOH # E96080

4155 St. Johns Pkwy Suite 1300  
Sanford, FL 32771  
FDOH # E83509

Printed: 2/3/09



# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## INORGANIC CONTAMINANTS

62 - 550.310 (1)

Client: All Webb's Enterprises, Inc.

Workorder: Okeechobee Landfill OLI-IWI

Sample Location: OLI-IWI Grab

Sample Number: 2033269001

Sampling Date: 1/14/09 14:25

PWS ID (From Page 1): \_\_\_\_\_

Date Received: 1/14/09 15:30

Contam ID	Contam Name	MCL	Units	Analysis Result	Qual.*	Analytical Method	Lab MDL	Analysis Date/Time	DOH Lab Cert #
1040	Nitrate as N	[10]	mg/L	0.0075	U	EPA 353.2	0.0075	1/20/09 14:48	E96080
1041	Nitrite as N	[1]	mg/L	0.0077	I	EPA 353.2	0.0040	1/14/09 16:23	E96080
1005	Arsenic	[0.01]	mg/L	0.0026	U	EPA 200.7	0.0026	1/19/09 14:41	E84129
1010	Barium	[2]	mg/L	0.037		EPA 200.7	0.0018	1/19/09 14:41	E96080
1015	Cadmium	[0.005]	mg/L	0.00070	U	EPA 200.7	0.00070	1/19/09 14:41	E96080
1020	Chromium	[0.1]	mg/L	0.0020	I	EPA 200.7	0.0018	1/19/09 14:41	E96080
1024	Cyanide	[0.2]	mg/L	0.0081	I	SM4500CN E	0.0047	1/29/09 11:38	E96080
1025	Fluoride	[4]	mg/L	0.70		SM4500F C	0.024	1/22/09 14:00	E96080
1030	Lead	[0.015]	mg/L	0.0030	U	EPA 200.7	0.0030	1/19/09 14:41	E96080
1035	Mercury	[0.002]	mg/L	0.000060	U	EPA 245.1	0.000060	1/21/09 11:25	E96080
1036	Nickel	[0.1]	mg/L	0.0020	U	EPA 200.7	0.0020	1/19/09 14:41	E96080
1045	Selenium	[0.05]	mg/L	0.0021	U	EPA 200.7	0.0021	1/19/09 14:41	E96080
1052	Sodium	[160]	mg/L	10000		EPA 200.7	0.50	1/19/09 14:41	E96080
1074	Antimony	[0.006]	mg/L	0.0023	U	EPA 200.7	0.0023	1/19/09 14:41	E96080
1075	Beryllium	[0.004]	mg/L	0.00010	U	EPA 200.7	0.00010	1/19/09 14:41	E96080
1085	Thallium	[0.002]	mg/L	0.31		EPA 200.7	0.039	1/19/09 14:41	E96080

Reporting Format 62-550.730  
Effective January 1995, Revised January 2007

\* Results must be reported with appropriate qualifiers in accordance with Florida Administrative Code Rule 62-160, Table 1. Results Qualified with A, F, H, N, O, T, Z, ?, \*, are unacceptable for compliance with 62-550. Results qualified with a J, Q, R, or Y must be accompanied by written justification and will be evaluated on a case by case basis. To avoid a monitoring violation, unacceptable results must be replaced with acceptable results from samples collected during the same monitoring period.

5600 US 1 North  
Fort Pierce, FL 34946  
FDOH # E96080

4155 St. Johns Pkwy Suite 1300  
Sanford, FL 32771  
FDOH # E83500

Printed: 2/3/09



# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## SECONDARY CONTAMINANTS

62 - 550.320

Client: All Webb's Enterprises, Inc.

Workorder: Okeechobee Landfill OLI-IWI

Sample Location: OLI-IWI Grab

Sample Number: 2033269001

Sampling Date: 1/14/09 14:25

PWS ID (From Page 1): \_\_\_\_\_

Date Received: 1/14/09 15:30

Contam ID	Contam Name	MCL	Units	Analysis Result	Qual.*	Analytical Method	Lab MDL	Analysis Date/Time	DOH Lab Cert #
1002	Aluminum	[0.2]	mg/L	0.020	U	EPA 200.7	0.020	1/19/09 14:41	E96080
1017	Chloride	[250]	mg/L	20000		EPA 300.0	200	1/15/09 17:09	E96080
1022	Copper	[1]	mg/L	0.0014	U	EPA 200.7	0.0014	1/19/09 14:41	E96080
1025	Fluoride	[2]	mg/L	0.70		SM4500F C	0.024	1/22/09/122/09	E96080
1028	Iron	[0.3]	mg/L	0.48		EPA 200.7	0.025	1/19/09 14:41	E96080
1032	Manganese	[0.05]	mg/L	0.0090	I	EPA 200.7	0.0038	1/19/09 14:41	E96080
1050	Silver	[0.1]	mg/L	0.00064	U	EPA 200.7	0.00064	1/19/09 14:41	E96080
1055	Sulfate	[250]	mg/L	2700		EPA 300.0	56	1/15/09 17:09	E96080
1095	Zinc	[5]	mg/L	0.057		EPA 200.7	0.010	1/19/09 14:41	E96080
1905	Color	[15]	CU	1.8	U	SM2120 B	1.8	1/14/09 18:34	E96080
1920	Odor	[3]	T.O.N.	8.2		SM2150 B	1.0	1/15/09 13:55	E96080
1925	pH	[6.5-8.5]	SU	7.35	Q	EPA 150.1	0.200	1/17/09 17:23	E96080
1930	Total Dissolved Solids	[500]	mg/L	32000		SM2540 C	403	1/18/09 13:30	E96080
2905	Foaming Agents	[0.5]	mg/L	0.036	I	SM5540 C	0.022	1/16/09 10:20	E96080

Reporting Format 62-550.730  
Effective January 1995, Revised January 2007

\* Results must be reported with appropriate qualifiers in accordance with Florida Administrative Code Rule 62-160, Table 1. Results Qualified with A, F, H, N, O, T, Z, ?, \*, are unacceptable for compliance with 62-550. Results qualified with a J, Q, R, or Y must be accompanied by written justification and will be evaluated on a case by case basis. To avoid a monitoring violation, unacceptable results must be replaced with acceptable results from samples collected during the same monitoring period.

5600 US 1 North  
Fort Pierce, FL 34946  
FDOH # E96080

4155 St. Johns Pkwy Suite 1300  
Sanford, FL 32771  
FDOH # E83509

Printed: 2/3/09





# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## SYNTHETIC ORGANICS 62 - 550.310 (4) (b)

Client: All Webb's Enterprises, Inc.  
Sample Location: OLI-IWI Grab  
Sampling Date: 1/14/09 14:25  
Date Received: 1/14/09 15:30

Workorder: Okeechobee Landfill OLI-IWI  
Sample Number: 2033269001  
PWS ID (From Page 1): \_\_\_\_\_

Contam ID	Contam Name	MCL	Units	Analysis Result	Qual.*	Analytical Method	Lab MDL	RDL	Extraction Date	Analysis Date/Time	DOH Lab Cert #
2005	Endrin	[2]	ug/L	0.10	U	EPA 505	0.10	0.01	1/21/09	1/21/09 21:17	E96080
2010	gamma-BHC (Lindane)	[0.2]	ug/L	0.020	U	EPA 505	0.020	0.02	1/21/09	1/21/09 21:17	E96080
2015	Methoxychlor	[40]	ug/L	0.044	U	EPA 505	0.044	0.1	1/21/09	1/21/09 21:17	E96080
2020	Toxaphene	[3]	ug/L	0.60	U	EPA 505	0.60	1	1/21/09	1/21/09 21:17	E96080
2031	Dalapon	[200]	ug/L	2.3	U	EPA 515.1	2.3	1	1/22/09	1/26/09 21:49	E96080
2032	Diquat	[20]	ug/L	1.9	U	EPA 549.2	1.9	0.4	1/15/09	1/20/09 14:09	E96080
2033	Endothall	[100]	ug/L	2.8	U	EPA 548.1	2.8	9	1/15/08	1/18/08 18:30	E96080
2034	Glyphosate	[700]	ug/L	13	U	EPA 547	13	6		1/19/09 13:37	E96080
2035	Di(2-ethylhexyl)adipate	[400]	ug/L	0.66	U	EPA 525.2	0.66	0.6	1/18/09	1/19/09 15:39	E96080
2036	Oxamyl	[200]	ug/L	0.13	U	EPA 531.1	0.13	2		1/20/09 22:29	E96080
2037	Simazine	[4]	ug/L	0.62	U	EPA 525.2	0.62	0.07	1/18/09	1/19/09 15:39	E96080
2039	bis(2-ethylhexyl)phthalate	[6]	ug/L	0.83	U	EPA 525.2	0.83	0.6	1/18/09	1/19/09 15:39	E96080
2040	Picloram	[500]	ug/L	0.23	U	EPA 515.1	0.23	0.1	1/22/09	1/26/09 21:49	E96080
2041	Dinoseb	[7]	ug/L	0.23	U	EPA 515.1	0.23	0.2	1/22/09	1/26/09 21:49	E96080
2042	Hexachlorocyclopentadiene	[50]	ug/L	0.23	U	EPA 525.2	0.23	0.1	1/18/09	1/19/09 15:39	E96080
2046	Carbofuran	[40]	ug/L	0.41	U	EPA 531.1	0.41	0.9		1/20/09 22:29	E96080
2050	Atrazine	[3]	ug/L	0.47	U	EPA 525.2	0.47	0.1	1/18/09	1/19/09 15:39	E96080
2051	Alachlor	[2]	ug/L	0.60	U	EPA 525.2	0.60	0.2	1/18/09	1/19/09 15:39	E96080
2065	Heptachlor	[0.4]	ug/L	0.036	U	EPA 505	0.036	0.04	1/21/09	1/21/09 21:17	E96080
2067	Heptachlor epoxide	[.2]	ug/L	0.027	U	EPA 505	0.027	0.02	1/21/09	1/21/09 21:17	E96080
2105	2,4-D	[70]	ug/L	0.22	U	EPA 515.1	0.22	0.1	1/22/09	1/26/09 21:49	E96080
2110	2,4,5-TP	[50]	ug/L	0.19	U	EPA 515.1	0.19	0.2	1/22/09	1/26/09 21:49	E96080
2274	Hexachlorobenzene	[1]	ug/L	0.30	U	EPA 525.2	0.30	0.1	1/18/09	1/19/09 15:39	E96080
2306	Benzo(a)pyrene	[.2]	ug/L	0.068	U	EPA 525.2	0.068	0.02	1/18/09	1/19/09 15:39	E96080
2326	Pentachlorophenol	[1]	ug/L	0.39	U	EPA 515.1	0.39	0.04	1/22/09	1/26/09 21:49	E96080
2383	PCB	[.5]	ug/L	0.14	U	EPA 505	0.14	0.1	1/21/09	1/21/09 21:17	E96080
2931	1,2-Dibromo-3-chloropropane	[.2]	ug/L	0.0035	U	EPA 504.1	0.0035	0.02	1/19/09	1/20/09 3:47	E96080
2946	1,2-Dibromoethane	[.02]	ug/L	0.0047	U	EPA 504.1	0.0047	0.01	1/19/09	1/20/09 3:47	E96080
2959	Chlordane	[2]	ug/L	0.13	U	EPA 505	0.13	0.2	1/21/09	1/21/09 21:17	E96080

Reporting Format 62-550.730  
Effective January 1995, Revised January 2007

NOTE: Results indicating non-detection with a reported lab MDL >50% of the MCL will not be accepted for compliance with 62-550.310(4)(b).

\* Results must be reported with appropriate qualifiers in accordance with Florida Administrative Code Rule 62-160, Table 1. Results Qualified with A, F, H, N, O, T, Z, ?, \*, are unacceptable for compliance with 62-550. Results qualified with a J, Q, R, or Y must be accompanied by written justification and will be evaluated on a case by case basis. To avoid a monitoring violation, unacceptable results must be replaced with acceptable results from samples collected during the same monitoring period.

5600 US 1 North  
Fort Pierce, FL 34946  
FDOH # E96080

4155 St. Johns Pkwy Suite 1300  
Sanford, FL 32771  
FDOH # E83509



# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## DISINFECTION BYPRODUCTS ANALYSES

62-550.310(3)

Client: All Webb's Enterprises, Inc. Report Number/ Job ID Okeechobee Landfill OLI-IWI  
Sample Location: OLI-IWI Grab Disinfectant Residual (mg/L) \_\_\_\_\_  
Sample Number: 2033269001 PWS ID \_\_\_\_\_  
Sampling Date: 1/14/09 14:25  
Date Received: 1/14/09 15:30

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	Analysis Date	Analysis Time	DOH Lab Cert. #
2941	Chloroform	[N/A]	ug/L	0.25	U	EPA 524.2	0.25	1/23/09	8:05 PM	E96080
2942	Bromoform	[N/A]	ug/L	0.41	U	EPA 524.2	0.41	1/23/09	8:05 PM	E96080
2943	Bromodichloromethane	[N/A]	ug/L	0.25	U	EPA 524.2	0.25	1/23/09	8:05 PM	E96080
2944	Dibromochloromethane	[N/A]	ug/L	0.30	U	EPA 524.2	0.30	1/23/09	8:05 PM	E96080
2950	Total Trihalomethanes	[80]	ug/L	0.25	U	EPA 524.2	0.25	1/23/09	8:05 PM	E96080

**NOTE:** Do not round values. Report results to the accuracy, precision, and sensitivity of the analytical method used.

Reporting Format 62-550.730  
Effective January 1995, Revised January 2007

\* Results must be reported with appropriate qualifiers in accordance with Florida Administrative Code Rule 62-160, Table 1. Results Qualified with A, F, H, N, O, T, Z, ?, \*, are unacceptable for compliance with 62-550. Results qualified with a J, Q, R, or Y must be accompanied by written justification and will be evaluated on a case by case basis. To avoid a monitoring violation, unacceptable results must be replaced with acceptable results from samples collected during the same monitoring period.

5600 US 1 North  
Fort Pierce, FL 34946  
FDOH # E96080

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FDOH # E83509

Printed: 2/3/09



# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## OTHER CONTAMINANTS

PWS ID:

Client: All Webb's Enterprises, Inc. Workorder: Okeechobee Landfill OLI-IWI  
Sample Location: OLI-IWI Grab  
Sample Number: 2033269001  
Sampling Date: 1/14/09 14:25  
Date Received: 1/14/09 15:30

Contam ID	Contam Name	MCL	Units	Analysis Result	Analytical Qual*	Method	Lab MDL	Analysis Date/Time	DOH Lab Cert #
	Nitrate/Nitrite as N		mg/L	0.0075 U		EPA 353.2	0.0075	01/20/09 12:50	E96080
	Background on Total Coli		CFU/100 mL	28		SM9222 B	1.0	01/14/09 15:30	E96080
	Confirmed E. Coli		CFU/100 mL	1.0 U		SM9222 B	1.0	01/14/09 15:30	E96080
	Confirmed Fecal Coliform		CFU/100 mL	1.0 U		SM9222 B	1.0	01/14/09 15:30	E96080
	Confirmed Total Coliform		CFU/100 mL	1.0 U		SM9222 B	1.0	01/14/09 15:30	E96080
	Total Coliform		CFU/100 mL	1.0 U		SM9222 B	1.0	01/14/09 15:30	E96080

Reporting Format 62-550.730  
Effective January 1995, Revised January 2004

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5600 US 1 North  
Fort Pierce, FL 34946  
FDOH # E96080

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Printed: 2/3/09



# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## Unregulated Group I Analysis 62 - 550.405 (PWS035)

Client: All Webb's Enterprises, Inc. Workorder: Okeechobee Landfill OLI-IWI  
Sample Location: OLI-IWI Grab  
Sample Number: 2033269001  
Sampling Date: 1/14/09 14:25  
Preservative: Sodium thiosulfate, or Monochloroacetic Acid  
Date Received: 1/14/09 15:30

ID	Parameter	Result	Method	MDL	Date	Lab ID
2043	Aldicarb sulfoxide	0.36 U	ug/L EPA 531.1	0.36	1/20/09	E96080
2044	Aldicarb sulfone	0.45 U	ug/L EPA 531.1	0.45	1/20/09	E96080
2047	Aldicarb	0.54 U	ug/L EPA 531.1	0.54	1/20/09	E96080

# SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218



Harbor Branch Environmental Laboratory  
Don Hash  
5600 US 1 North  
Fort Pierce, FL 34946-

February 2, 2009  
Project No: 89078

## Laboratory Report

FDEP Report form attached for the following samples:

Client Project Description: 2033269

<u>Sample Number</u>	<u>Sample Description</u>	<u>Date &amp; Time Collected</u>	<u>Date &amp; Time Received</u>
89078.01	2033269-001	01/14/09 14:25	01/16/09 11:50

Test results presented in this report meet all the requirements of the NELAC standards.

A handwritten signature in black ink, appearing to read "Francis I. Daniels".

FDOH Laboratory No. E84129  
NELAP Accredited

Approved By: Francis I. Daniels, Laboratory Director  
Leslie C. Boardman, Q.A. Manager

# SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218



Harbor Branch Environmental Laboratory

2033269

Sample ID: 2033269-001

February 2, 2009

Sample No.: 89078.01

PWS ID: \_\_\_\_\_

## Radionuclides 62-550.310(6)

Contaminant ID	Contaminant Name	MCL	Units	Analysis		Analytical Method	Lab MDL	RDL **	Analysis Error	Analysis Date	Analysis Time	DOH Lab Certification #
				Result	Qualifier							
4002	Gross Alpha (Incl. Uranium)	***	pCi/L	200		EPA 00-02	2.8	3	6.3	01/20/09	13:27	E84129
4020	Radium-226	5*	pCi/L	46		EPA 903.1	0.06	1	1.3	01/27/09	13:30	E84129
4030	Radium-228	5*	pCi/L	0.4		EPA RA-05	0.3	1	0.2	01/30/09	16:42	E84129

\* Combined Limit

\*\*\* If the results exceed 5 pCi/L, a measurement for radium-226 is required.

If the results exceed 15 pCi/L, measurements for radium-226 and uranium are required.

\* Qualifiers:

HBEL, Inc.

HBEL, Inc.  
5600 U. S. 1 North, Ft. Pierce, FL 34946, 772-465-2400 ext. 292  
Fax: (772) 467-1584  
SUBCONTRACT CHAIN OF CUSTODY RECORD

89078

Subcontracting Form 001A  
REV 002  
Effective Date 03/17/2008

Receiving Laboratory: SAL

The samples are to be shipped by UPS to arrive on 1-16-09. TAT: Std.

HBEL, Inc.						ANALYSIS REQUIRED				COLLECTION REMARKS
PROJECT NAME: <u>2033269</u>						PRESERVATIVE				
SAMPLE TYPE: Composite = C, Grab = G, Preservative: HCl = H, HNO <sub>3</sub> = N, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> = ST, H <sub>2</sub> SO <sub>4</sub> = S, NaOH = SH, Unpreserved = U						Z	Z	Z		
MATRIX: Drinking Water = DW, Groundwater = GW, Surface Water = SW, Wastewater = WW, Soil or solids = S, Waste = W, Oil = O						Gross & High Solids	Rad 226	Rad 228		
Client Code	MATRIX	COLLECTION DATE	TIME	TYPE	HBEL SAMPLE ID	# Bottles				SAMPLE COMMENTS
AWE	GW	1-14-09	1425	G	2033269 001	3	✓	✓	✓	
					31k Plus 2 2/ HND3					
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME			
<u>R. Muth</u>		1-15-09	1600	<u>[Signature]</u>		1-16-09	1150	UPS		
RELINQUISHED BY:		DATE	TIME	LABORATORY NAME AND RECEIVED BY:		DATE	TIME			

Page 3 of 3

01





# Florida Department of Environmental Protection Safe Drinking Water Program Laboratory Reporting Format

## LABORATORY CERTIFICATION INFORMATION (to be completed by lab - Please type or print legibly)

ATTACH A CURRENT DOH ANALYTE SHEET

Lab Name: HBEL, Inc. Florida Certification #: E96080  
 Address: 5600 US 1 North Certification Expiration Date: 06/30/2009  
Fort Pierce, FL 34946 Phone #: (772) 465-8584

**ANALYSIS INFORMATION** (to be completed by lab) Date Sample(s) Received:: 1/14/09

PWS ID (From Page 1): \_\_\_\_\_ Sample Number (From Page 1): \_\_\_\_\_

Lab Assigned Report Number or Job ID: 2033269002

Group(s) Analyzed and Results attached for compliance with Chapter 62-550, F.A.C. (Check all that apply):

- |  |  |  |  |
|--|--|--|--|
| <p><u>Inorganics</u></p> <input type="checkbox"/> All 17<br><input type="checkbox"/> Partial<br><input type="checkbox"/> Nitrate<br><input type="checkbox"/> Nitrite<br><input type="checkbox"/> Asbestos Only | <p><u>Synthetic Organics</u></p> <input type="checkbox"/> All 30<br><input type="checkbox"/> All Except Dioxin<br><input type="checkbox"/> Partial<br><input type="checkbox"/> Dioxin Only | <p><u>Volatile Organics</u></p> <input checked="" type="checkbox"/> All 21<br><input type="checkbox"/> Partial<br><p><u>Radionuclides</u></p> <input type="checkbox"/> Single Sample<br><input type="checkbox"/> Qtrly Composite** | <p><u>Disinfection Byproducts</u></p> <input checked="" type="checkbox"/> Trihalomethanes<br><input type="checkbox"/> Haloacetic Acids<br><input type="checkbox"/> Bromate<br><input type="checkbox"/> Chlorite<br><p><u>Secondaries</u></p> <input type="checkbox"/> All 14<br><input type="checkbox"/> Partial |
|--|--|--|--|

Were any analyses subcontracted?  Yes  No

If yes, please provide DOH certification numbers: E84129

ATTACH DOH ANALYTE SHEET FOR EACH SUBCONTRACTED LAB

## CERTIFICATION

I, Eric Charest, Laboratory Manager  
 (Print Name) (Print Title)

do HEREBY CERTIFY that all attached analytical data are correct and unless noted meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Signature  Date: 03-Feb-09

\* Failure to provide a valid and current Florida DOH lab certification number and a current Analyte Sheet for the attached analysis results will result in rejection of the report, possible enforcement against the public water system for failure to sample, and may result in notification of the DOH Bureau of Laboratory Services.

\*\* Please provide radiological sample dates locations for each quarter.

## COMPLIANCE DETERMINATION (to be completed by DEP or DOH)

Sample Collection Info Satisfactory:  Yes  No Sample Analysis Info Satisfactory:  Yes  No

Replacement Sample(s) Requested (circle or highlight group(s) above)  Revised Report Requested (circle or highlight group(s) above)

Additional Monitoring Required (circle or highlight group(s) above)

Reason(s):  MCL(s) Exceeded  Detection(s)  Incomplete Report  
 Missing Analyte Sheet(s)  Location Unsatisfactory  Analysis Unsatisfactory  
 Other: \_\_\_\_\_

Person Notified: \_\_\_\_\_ Date Notified: \_\_\_\_\_

Comments: \_\_\_\_\_

Date Reviewed: \_\_\_\_\_ DEP/DOH Reviewing Official: \_\_\_\_\_

# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## VOLATILE ORGANICS 62 - 550.310 (4) (a)

Client: All Webb's Enterprises, Inc.

Workorder: Okeechobee Landfill OLI-IWI

Sample Location: Trip Blank

Sample Number: 2033269002

Sampling Date: 1/14/09 0:00

PWS ID (From Page 1): \_\_\_\_\_

Date Received: 1/14/09 15:30

Contam ID	Contam Name	MCL	Units	Analysis Result	Qual.*	Analytical Method	Lab MDL	RDL	Analysis Date/Time	DOH Lab Cert #
2378	1,2,4-Trichlorobenzene	[70]	ug/L	0.41	U	EPA 524.2	0.41	0.5	1/23/09 20:38	E96080
2380	cis-1,2-Dichloroethene	[70]	ug/L	0.21	U	EPA 524.2	0.21	0.5	1/23/09 20:38	E96080
2955	Total Xylenes	[10000]	ug/L	0.46	U	EPA 524.2	0.46	0.5	1/23/09 20:38	E96080
2964	Dichloromethane	[5]	ug/L	0.23	U	EPA 524.2	0.23	0.5	1/23/09 20:38	E96080
2968	1,2-Dichlorobenzene	[600]	ug/L	0.21	U	EPA 524.2	0.21	0.5	1/23/09 20:38	E96080
2969	1,4-Dichlorobenzene	[75]	ug/L	0.23	U	EPA 524.2	0.23	0.5	1/23/09 20:38	E96080
2976	Vinyl chloride	[1]	ug/L	0.32	U	EPA 524.2	0.32	0.5	1/23/09 20:38	E96080
2977	1,1-Dichloroethene	[7]	ug/L	0.23	U	EPA 524.2	0.23	0.5	1/23/09 20:38	E96080
2979	trans-1,2-Dichloroethene	[100]	ug/L	0.35	U	EPA 524.2	0.35	0.5	1/23/09 20:38	E96080
2980	1,2-Dichloroethane	[3]	ug/L	0.29	U	EPA 524.2	0.29	0.5	1/23/09 20:38	E96080
2981	1,1,1-Trichloroethane	[200]	ug/L	0.21	U	EPA 524.2	0.21	0.5	1/23/09 20:38	E96080
2982	Carbon tetrachloride	[3]	ug/L	0.24	U	EPA 524.2	0.24	0.5	1/23/09 20:38	E96080
2983	1,2-Dichloropropane	[5]	ug/L	0.40	U	EPA 524.2	0.40	0.5	1/23/09 20:38	E96080
2984	Trichloroethene	[3]	ug/L	0.36	U	EPA 524.2	0.36	0.5	1/23/09 20:38	E96080
2985	1,1,2-Trichloroethane	[5]	ug/L	0.44	U	EPA 524.2	0.44	0.5	1/23/09 20:38	E96080
2987	Tetrachloroethene	[3]	ug/L	0.24	U	EPA 524.2	0.24	0.5	1/23/09 20:38	E96080
2989	Chlorobenzene	[100]	ug/L	0.30	U	EPA 524.2	0.30	0.5	1/23/09 20:38	E96080
2990	Benzene	[1]	ug/L	0.20	U	EPA 524.2	0.20	0.5	1/23/09 20:38	E96080
2991	Toluene	[1000]	ug/L	0.22	U	EPA 524.2	0.22	0.5	1/23/09 20:38	E96080
2992	Ethylbenzene	[700]	ug/L	0.21	U	EPA 524.2	0.21	0.5	1/23/09 20:38	E96080
2996	Styrene	[70]	ug/L	0.21	U	EPA 524.2	0.21	0.5	1/23/09 20:38	E96080

Reporting Format 62-550.730  
Effective January 1995, Revised January 2007

\* Results must be reported with appropriate qualifiers in accordance with Florida Administrative Code Rule 62-160, Table 1. Results Qualified with A, F, H, N, O, T, Z, ?, \*, unacceptable for compliance with 62-550. Results qualified with a J, Q, R, or Y must be accompanied by written justification and will be evaluated on a case by case basis. To avoid a monitoring violation, unacceptable results must be replaced with acceptable results from samples collected during the same monitoring period.

5600 US 1 North  
Fort Pierce, FL 34946  
FDOH # E96080

4155 St. Johns Pkwy Suite 1300  
Sanford, FL 32771  
FDOH # E83509

Printed: 2/3/09



# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

## DISINFECTION BYPRODUCTS ANALYSES 62-550.310(3)

Client: All Webb's Enterprises, Inc. Report Number/ Job ID Okeechobee Landfill OLI-IWI  
Sample Location: Trip Blank Disinfectant Residual (mg/L) \_\_\_\_\_  
Sample Number: 2033269002 PWS ID \_\_\_\_\_  
Sampling Date: 1/14/09 0:00  
Date Received: 1/14/09 15:30

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	Analysis Date	Analysis Time	DOH Lab Cert. #
2941	Chloroform	[N/A]	ug/L	0.25	U	EPA 524.2	0.25	1/23/09	8:38 PM	E96080
2942	Bromoform	[N/A]	ug/L	0.41	U	EPA 524.2	0.41	1/23/09	8:38 PM	E96080
2943	Bromodichloromethane	[N/A]	ug/L	0.25	U	EPA 524.2	0.25	1/23/09	8:38 PM	E96080
2944	Dibromochloromethane	[N/A]	ug/L	0.30	U	EPA 524.2	0.30	1/23/09	8:38 PM	E96080
2950	Total Trihalomethanes	[80]	ug/L	0.25	U	EPA 524.2	0.25	1/23/09	8:38 PM	E96080

**NOTE:** Do not round values. Report results to the accuracy, precision, and sensitivity of the analytical method used.

Reporting Format 62-550.730  
Effective January 1995, Revised January 2007

\* Results must be reported with appropriate qualifiers in accordance with Florida Administrative Code Rule 62-160, Table 1. Results Qualified with A, F, H, N, O, T, Z, ?, \*, are unacceptable for compliance with 62-550. Results qualified with a J, Q, R, or Y must be accompanied by written justification and will be evaluated on a case by case basis. To avoid a monitoring violation, unacceptable results must be replaced with acceptable results from samples collected during the same monitoring period.

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Fort Pierce, FL 34946  
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FDOH # E83509

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# HBEL, Inc.

5600 U.S. 1 North, Fort Pierce, FL 34946  
Phone: (772) 465-8584 Fax: (772) 467-1584

Date issued: February 10, 2009

To: David Webb  
All Webb's Enterprises, Inc.  
309 Commerce Way  
Jupiter, FL 33458

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Client: All Webb's Enterprises, Inc.

Workorder ID: Okeechobee Landfill GW

[2033316]

Received: 1/21/09 16:10

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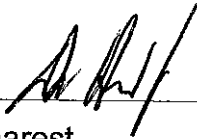
Dear David Webb;

Analytical results presented in this report have been reviewed for compliance with the HBEL, Inc. Quality Systems Manual and have been determined to meet applicable Method guidelines and Standards referenced in the July 2003 National Environmental Laboratory Accreditation Program (NELAP) Quality Manual unless otherwise noted. The Analytical Results within these report pages reflect the values obtained from tests performed on Samples As Received by the laboratory unless indicated differently.

FDOH Safe Drinking Water Act, Clean Water Act and RCRA Certification #'s:  
E96080, E83509

Questions regarding this report should be directed to the Report Signatory at (772) 465-8584 referencing the HBEL Workorder ID [Number].

Respectfully submitted,

  
Eric Charest  
HBEL, Inc. Laboratory Manager

Note: This report is not to be copied, except in full, without the expressed written consent of HBEL, Inc.

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# Appendix E

**OKEECHOBEE LANDFILL, INC.  
LITHOLOGIC DESCRIPTIONS**

**EXPLORATORY / INJECTION WELL – EW-1**

**Undifferentiated Marine Terrace Deposits**

0-140 SAND; yellowish gray (5Y 8/1) high permeability; grain type: biogenetic, skeletal; phosphatic sand (10%)

**Hawthorn Group – Peace River Formation**

140 – 150 CLAY; pale olive (10 Y 6/2) to grayish olive (10 Y 4/2); 10% porosity, intergranular, porosity, low permeability; poor induration; clay and dolomite cement; 45% silt sized dolomite, 20% quartz sand, 2% phosphate; mollusks, fossil fragments

150-160 Sand; fine grain clean white sand, productive zone in local wells

150 – 210 DOLO-SILT; pale olive (10 Y 6/2) to grayish olive (10 Y 4/2); 10% porosity, intergranular porosity, low permeability; poor induration with clay and dolomite cement; 5% quartz sand, 2% phosphate, 2% clay; mollusks

210 – 220 SHELL BED; yellowish gray (5 Y 7/2), 15% porosity, intergranular porosity; poor induration with clay, dolomite, and micrite cements; 45% silt sized dolomite, 2% clay, 2% phosphate; mollusks

220 – 440 DOLO-SILT; light olive gray (5 Y 5/2); 10% porosity, intergranular porosity, low permeability; poor induration with clay and dolomite cements; 2% clay, 2% quartz sand, 2% phosphate

440 – 570 DOLO-SILT; pale olive (10 Y 6/2); 10% porosity, intergranular porosity, low permeability; poor induration with clay and dolomite cements; 2% clay, 10% phosphate, 10% quartz sand

570 – 660 DOLO-SILT; pale olive (10 Y 6/2); 10% porosity, intergranular porosity, low permeability; poor induration with clay and dolomite cement; 1% clay, 5% phosphate, 10% quartz sand, limestone fragments

660 – 670 Reworked zone – Ocala Limestone fragments in dolosilt/clay sand matrix

### Ocala Limestone

- 670 – 680 Limestone, very pale orange (10 YR 8/2), 20% porosity, intergranular and moldic porosity, medium permeability, grain types are skeletal, micrite and sparry calcite, poor induration with micrite and sparry calcite cements, benthonic foraminifera, mollusks, bryozoans, and corals
- 680 – 730 Limestone, very pale orange (10 YR 8/2); 15% porosity, intergranular, moldic and vugular porosity, medium permeability; grain types are biogenic, micrite and skeletal, moderate induration with micrite and sparry calcite cements, mollusks, benthonic foraminifera (*Lepidocyclina* and *Operculinoides sp.*)
- 730- 800 Limestone; very pale orange (10 YR 8/2); 15% porosity, intergranular, moldic and vugular porosity, medium permeability; grain types are biogenic, skeletal, and micrite, moderate induration with micrite and sparry calcite cements, benthonic foraminifera

### Avon Park Formation

- 800 -820 Limestone (calcarenite); white (N 9); 15 porosity, intergranular porosity; grain types are biogenic, skeletal, and crystal; medium grained, moderate induration with micrite sparry calcite, and dolomite cements; dolomitic; cones – *Dictyoconus cookie*
- 820 – 830 Limestone (calcilutite), yellowish gray (5 Y 8/1); 5% porosity, intergranular porosity; grain type: skeletal, micrite, very fine grained, moderate induration with micrite cement, trace phosphatic sand; cones, benthic foraminifera
- 830 -850 Limestone, (calcilutite), yellowish gray (5 Y 8/1); 5% porosity, intergranular porosity, possibly low permeability; grain type: skeletal, calcilutite; calcilutite matrix; cones, benthic foraminifera
- 850 – 870 Limestone, yellowish gray (5 Y 8/1); 15% porosity, intergranular porosity, grain type is skeletal, micrite, and crystal, moderate induration with micrite and sparry calcite cements, dolomitic; benthonic foraminifera
- 860 – 880 Limestone, (calcarenite), dark yellowish brown (10 YR 4/2); 15% porosity, intergranular porosity; grain types are skeletal, micrite, and crystal, good induration with sparry calcite, micrite and dolomite cements, 10% dolomite; benthic foraminifera; dolomitic limestone

- 880 – 890 Limestone (calcilutite), yellowish gray (5 Y 7/2); 15% porosity, intergranular porosity, pinpoint vugs; grain type: skeletal, calcilutite; calcilutite matrix, cones, benthic foraminifera; *Dictyconus Americanus*; dolomitic limestone
- 890 – 900 Limestone, yellowish gray (5 YR 8/1); 15% porosity, intergranular porosity, grain types are skeletal, biogenic, and crystal calcilutite; moderate induration with sparry calcite and micrite cements, milliolids, benthic foraminifera; *Dictyconus americanus*
- 900 – 920 Limestone (calcilutite), pinkish gray (5 YR 8/1), 5% porosity, intergranular porosity, possibly low permeability; grain types are skeletal and micrite; moderate induration with micrite cement; dolomitic; cones, benthic foraminifera; *Dictyconus americanus*; dolomitic
- 920- 930 Limestone (calcilutite), light gray (N7), 5% porosity, intergranular and vugular porosities, possibly low permeability, grain types are skeletal and micrite, very fine grained, moderate induration with micrite and sparry calcite cements, dolomitic; cones, benthic foraminifera
- 930 -960 Limestone (calcilutite), yellowish gray (5 YR 8/1); 5% porosity, intergranular and vugular porosity, possibly low permeability, grain types are skeletal and micrite, very fine grained, moderate induration with micrite cement, 5% chert; dolomitic; cones, benthic foraminifera
- 960 – 980 Limestone, yellowish gray (5 YR 8/1); 5% porosity, intergranular porosity, possibly low permeability, grain types are skeletal and micrite, moderate induration with micrite cement; cones, benthic foraminifera
- 980 – 1000 Limestone, yellowish gray (5 YR 8/1); 15% porosity, intergranular porosity, pinpoint vugs; grain types are skeletal, crystal, and micrite, moderate induration with sparry calcite cements and micrite cements, benthic foraminifera;
- 1000 – 1040 Dolomite, dark yellowish brown (10 YR 4/2); 15% porosity, intercrystalline and vugular porosity, pinpoint vugs; high alteration, very fine grained euhedral crystals, good induration with dolomite and micrite cements; benthic foraminifera



- 1040 – 1060 LIMESTONE, yellowish gray (5 Y 8/1); 15% porosity, intergranular and moldic porosities; grain types are skeletal and micrite, moderate induration with micrite cement, benthonic foraminifera
- 1060 – 1070 LIMESTONE (calcilutite), yellowish gray (5 Y 8/1); 5% porosity, intergranular and vugular porosities, possibly low permeability, grain types are micrite and crystal, very fine grained, moderated induration with sparry calcite and micrite cements
- 1070 -1090 LIMESTONE, yellowish gray (5 Y 8/1); low permeability, intergranular; grain type: skeletal, calcilutite; 0 -10% dolomite alteration; calcilutite matrix; cones, benthic foraminifera; dolomitic limestone
- 1070 – 1080 LIMESTONE; Light yellowish brown (5 YR 6/1); 15% porosity, intergranular, pinpoint vugs; grain type: sand, clay; 0 -10% dolomite alteration; sparry calcite, calcilutite matrix; dolomitic; cones, benthic foraminifera; dolomitic limestone
- 1080 – 1100 DOLOMITE, yellowish gray (5 YR 8/1); 10% porosity, intercrystalline and vugular porosity, high alteration, very fine grained euhedral crystals, good induration with dolomite and micrite cements, 10% micrite
- 1100 – 1120 LIMESTONE; moderate yellowish brown (10 YR 5/4); 15% porosity, intergranular and moldic porosity, pinpoint vugs; grain types are skeletal, crystal, and micrite, good induration with sparry calcite and micrite cements, 10% dolomite
- 1120 – 1200 DOLOMITE, pale yellowish brown (10 YR 6/2); 15% porosity intercrystalline, vugular and moldic porosities, possibly high permeability, high alteration, very fine grained euhedral crystals, moderate induration with dolomite and micrite cements, sucrosic
- 1200 -1220 DOLOMITE; moderate yellowish brown ( 10 YR 5/4); 10% porosity, intercrystalline and vugular porosity, pinpoint vugs; high alteration, very fine grained subhedral to euhedral crystals; good induration with sparry calcite and dolomite cements; sucrosic
- 1220 – 1230 DOLOMITE: dark yellowish brown (10 YR 4/2); 10% porosity, intercrystalline and moldic porosity, pinpoint vugs; high alteration; good induration with dolomite cement; sucrosic, fossil molds

- 1230 -1240 DOLOMITE, brownish gray (10 YR 4/1); 2% porosity, intercrystalline and intracrystalline porosity, pinpoint vugs; high alteration, microcrystalline to very fine grained euhedral crystals, good induration with dolomite cement, unfossiliferous
- 1240 – 1260 DOLOMITE, moderate yellowish brown (10 YR 5/4) 15% porosity, intercrystalline, pinpoint vugs, possibly high permeability; high alteration, very fine grained euhedral crystals, good induration, with dolomite cement; sucrosic
- 1260 – 1270 LIMESTONE: yellowish gray (5 Y 8/1); 5% porosity, intergranular porosity, possibly low permeability; grain type is micrite and crystal, moderate induration with micrite, sparry calcite, dolomite cement; 10% dolomite
- 1270 – 1280 DOLOMITE, brownish gray (10 YR 4/1); 10% porosity, intercrystalline and vugular porosity, pinpoint vugs, high alteration, euhedral crystals; good induration with dolomite and micrite cements
- 1280 – 1300 DOLOMITE, moderate yellowish brown (10 YR 5/4); 15% porosity, intercrystalline porosity, pinpoint vugs; possibly high permeability, high alteration; very fine grained euhedral crystals, good induration; dolomite cement
- 1300 – 1310 DOLOMITE, moderate yellowish brown (10 YR 5/4); 15% porosity, intercrystalline, pinpoint vugs, possibly high permeability; high alteration; microcrystalline to very fine grained euhedral crystals, good induration with dolomite cement; trace glauconite
- 1310 – 1320 DOLOMITE, moderate yellowish brown (10 YR 5/4); 10% porosity, intercrystalline and vugular porosity, pinpoint vugs, high alteration; good induration; with dolomite cement
- 1320 – 1340 LIMESTONE, yellowish gray (5 Y 8/1); 5% porosity, intergranular porosity, possibly low permeability, grain type are skeletal and micrite, moderated induration with sparry calcite and micrite cements; 10% dolomite
- 1340 – 1370 LIMESTONE, yellowish gray (5 Y 8/1); 15% porosity, intergranular, moldic and vugular porosity, possibly high permeability; grain types are crystal, skeletal, and biogenic, good induration with sparry calcite and micrite cement;, benthonic foraminifera, mollusks, bryozoans

- 1370 – 1380 Limestone, yellowish gray (5 Y 8/1), 15% porosity, intergranular; grain types is micrite and skeletal, moderate induration with sparry calcite and micrite cements, cones, benthonic foraminifera
- 1380 – 1390 Limestone: moderate yellowish brown (10 YR 5/4); 5% porosity, intergranular porosity, possibly low permeability; grain types are biogenic, skeletal and crystal, poor induration with micrite and sparry calcite cements, 10% dolomite, forams
- 1390 - 1400 Limestone: pale yellowish brown (10 YR 6/2); 5% porosity, intergranular porosity, possibly low permeability, grain types are biogenic, skeletal and crystal, moderate induration with sparry calcite and micrite cement; benthonic foraminifera; Dictyoconus americanus
- 1400 – 1420 Limestone, dark yellowish brown (10 YR 4/2); 5% porosity, intergranular porosity, possibly low permeability, grain types are micrite and skeletal, poor induration with micrite cement; 10% dolomite; cones, benthonic foraminifera
- 1420 – 1430 Limestone: moderate yellowish brown (10 YR 5/4); 5% porosity, intergranular porosity, possibly low permeability, pinpoint vugs; grain types are skeletal micrite, poor induration with micrite cement, 10% dolomite; cones, benthic foraminifera
- 1430 – 1440 Limestone, pale yellowish brown (10 YR 6/2); 5% porosity, intergranular porosity, possibly low permeability, grain types are biogenic, skeletal, and crystal; poor induration with micrite cement, cones, benthonic foraminifera
- 1440 – 1450 Dolomite,: pale yellowish brown (10 YR 6/2); 10% porosity, intercrystalline and vugular porosity, high alteration, very fine grained euhedral crystals, moderate induration with dolomite and micrite cements; cones, benthonic foraminifera
- 1450 – 1460 Limestone: pale yellowish brown (10 YR 6/2); 5% porosity, intergranular and vugular porosity, possibly low permeability, grain type are skeletal and micrite, moderate induration with micrite cement; cones, benthic foraminifera; dolomitic limestone
- 1460 – 1470 Dolomite, dark yellowish brown (10 YR 4/2); 5% porosity, intercrystalline and vugular porosity, possibly low permeability, high alteration, microcrystalline to very fine euhedral crystals, good induration with dolomite cement; cones, benthonic foraminifera

- 1470 – 1490 DOLOMITE, moderate yellowish brown ( 10 YR 5/4); 15% porosity, intercrystalline porosity, pinpoint vugs; high alteration; good induration with dolomite cement; trace hematite
- 1490 - 1510 DOLOMITE, pale yellowish brown (10 YR 6/2); 5% porosity, intercrystalline porosity, pinpoint vugs; high alteration very fine grained euhedral crystals, good induration with dolomite cement; 5% glauconite
- 1510 - 1530 DOLOMITE, dark yellowish brown (10 YR 4/2); 5% porosity, intercrystalline porosity, possibly low permeability, pinpoint vugs; high alteration; very fine grained euhedral crystals, good induration with dolomite cement; 5% glauconite; benthonic foraminifera
- 1530 – 1540 DOLOMITE, moderate yellowish brown (10 YR 5/4); 20% porosity, intercrystalline, pinpoint vugs, possibly high permeability; high alteration, very fine grained euhedral crystals, good induration with dolomite cement; sucrosic;
- 1540 – 1560 DOLOMITE, dark yellowish brown (10 YR 4/2); 5% porosity, intercrystalline porosity, pinpoint vugs; high alteration; very fine grained euhedral crystals, moderate induration with dolomite cement; 5% glauconite;; cones, benthonic foraminifera
- 1560 – 1580 DOLOMITE, moderate yellowish brown (10 YR 5/4); 15% porosity, intercrystalline porosity, pinpoint vugs, possibly high permeability; high alteration; euhedral crystals good induration with dolomite cement
- 1580 – 1590 DOLOMITE, dark yellowish brown (10 YR 4/2); 15% porosity, intercrystalline porosity; pinpoint vugs, high alteration; good induration with dolomite cement
- 1590 – 1600 DOLOMITE, moderate yellowish brown (5 YR 5/4); 20% porosity intercrystalline and vugular porosity, possibly high permeability; high alteration; very fine grained euhedral crystals, moderate induration with dolomite cement, benthonic foraminifera
- 1600 – 1610 DOLOMITE, light brownish gray (10 YR 6/1); 15% porosity, intercrystalline porosity, pinpoint vugs, high alteration, very fine grained euhedral crystals, good induration with dolomite cement
- 1610 – 1620 DOLOMITE, moderate yellowish brown (10 YR 5/4); 25% porosity, intercrystalline and vugular porosity, possibly high permeability; high alteration; good induration with dolomite cement

- 1630 – 1650 DOLOMITE, moderate yellowish brown (10 YR 5/4); 25% porosity, intercrystalline and vugular porosity, possibly high permeability; high alteration; good induration with dolomite cement
- 1650 – 1680 DOLOMITE, moderate yellowish brown (5 Y 8/1); 15% porosity, intercrystalline and moldic porosity, pinpoint vugs, high alteration, very fine grained euhedral crystals, good induration with dolomite cement, fossil molds
- 1680 – 1700 LIMESTONE, very pale orange (10 YR 8/2); 10% porosity, intergranular and moldic porosity; grain types are biogenic, skeletal, and micrite, moderate induration with micrite cement, benthonic foraminifera, millioids
- 1700 – 1730 LIMESTONE, very pale orange (10 YR 8/2); 10% porosity, intergranular porosity, grain types are skeletal, micrite and crystal, moderate induration with sparry calcite and micrite cement, benthonic foraminifera
- 1730 – 1760 DOLOMITE, pale yellowish brown (10 YR 6/2); 5% porosity, intercrystalline and vugular porosity, possibly, low permeability, pinpoint vugs; high alteration, very fine grained euhedral crystal, good induration with dolomite and micrite cements, benthonic foraminifera
- 1760 – 1790 LIMESTONE, very pale orange (10 YR 8/2); 5% porosity, intergranular porosity, grain types are biogenic micrite and skeletal, poor induration with micrite cement, benthonic foraminifera
- 1790 – 1810 LIMESTONE, very pale orange (10 YR 8/2); 10% porosity, intergranular and moldic porosity; grain type is biogenic, skeletal and micrite, moderate induration with micrite cement, mollusks. benthonic foraminifera
- 1810 – 1840 LIMESTONE, very pale orange (10 YR 8/2); 15% porosity, intergranular and moldic porosity, grain types are micrite, biogenic and skeletal, 40% > .625 mm, very fine to medium grained, moderate induration with micrite cement, benthonic foraminifera, cones
- 1840 – 1920 LIMESTONE, very pale orange (10 YR 8/2); 5% porosity, intergranular and vugular porosity, possibly low permeability, grain types micrite, crystal, and biogenic, 20% > .65mm, microcrystalline to fine grained, poor induration with sparry calcite and micrite cements, benthonic foraminifera, cones

- 1920 – 2000 Limestone, very pale orange (10 YR 8/2); 10% porosity, intercrystalline, intergranular, and vugular porosity; grain types is crystal, micrite, and biogenic, 20% > .65mm, moderate induration with sparry calcite and micrite cements, benthonic foraminifera
- 2000 – 2010 80/20 light brownish gray Dolomite and very pale orange Limestone moderate yellowish brown (5 Y 8/1); 15% porosity, intercrystalline and moldic porosity, pinpoint vugs, high alteration, very fine grained euhedral crystals, good induration with dolomite cement, fossil molds
- 2010 – 2040 DOLOMITE, pale yellowish brown (10 YR 6/2); 5% porosity, intercrystalline and vugular porosity, possibly, low permeability, pinpoint vugs; high alteration, very fine grained euhedral crystal, good induration with dolomite and micrite cements, benthonic foraminifera
- 2040– 2100 DOLOMITE, grayish orange (10 YR 7/4); 10% porosity, intercrystalline and vugular porosity, high alteration, microcrystalline to very fine grained euhedral crystals, good induration with dolomite cement, unfossiliferous
- 2020 – 2030 DOLOMITE, pale yellowish brown (10 YR 6/2); 5% porosity, intercrystalline porosity, possibly low permeability, high alteration, very fine grained euhedral crystals, good induration with dolomite cement

### **Confining Sequence**

- 2100 – 2140 DOLOMITE, dark yellowish brown (10 YR 4/2); 10% porosity, intercrystalline porosity, high alteration, subhedral; good induration; with dolomite cement
- 2140 – 2190 DOLOMITE, moderate yellowish brown (10 YR 5/4), 15% porosity, intercrystalline, vugular, and moldic porosity, possibly high permeability, high alteration, very fine grained euhedral crystals, sucrosic, good induration with dolomite cement
- 2190 – 2220 DOLOMITE, dark yellowish brown (10 Y 4/2); 5% porosity, intercrystalline and vugular porosity, possibly low permeability, high alteration, very fine to microcrystalline grained euhedral crystals, good induration with dolomite cement
- 2220 – 2230 DOLOMITE, dark yellowish orange (10 YR 6/6), 15% porosity, intercrystalline and intergranular possibly possibly high permeability, high alteration, very fine grained euhedral crystals, moderate induration with dolomite cement

2230 – 2290 DOLOMITE, moderate yellow brown (10 YR 5/4); 15% porosity, intracrystalline and intergranular porosity, possibly high permeability, high alteration, very fine grained euhedral crystals, moderate induration with dolomite cement

### **Oldsmar Formation**

2290 – 2310 LIMESTONE (calcilutite), yellowish gray (5 Y 8/1); 5% porosity, intergranular porosity, grain types are micrite and biogenic, 10% > .062mm, poor induration with micrite cement, unfossiliferous

2310 – 2390 LIMESTONE, very pale orange (10 YR 8/2), 10% porosity, intergranular porosity, grain type is skeletal, micrite, and biogenic, 40% > .65mm, very fine to medium grained euhedral, moderate induration with micrite cement, trace glauconite, pellets, benthonic foraminifera

2390 – 2400 LIMESTONE: very pale orange (10 YR 8/2); 10% porosity, intercrystalline, intergranular, and moldic porosity; grain type: biogenic, crystals, and micrite, 30% > .65mm good induration; sparry calcite cement and micrite cements, benthonic formaminifera

2400 – 2460 LIMESTONE (calcarenite): very pale orange (10 YR 8/2); 15% porosity, intergranular, moldic; grain type: biogenic, skeletal, micrite, 75% > 0.062mm, mode: microcrystalline, range: medium; moderate induration; sparry calcite cement and calcilutite matrix; 1% clay; benthic formaminifera (*Heliocostegina gyralis*), mollusks, pellets

2460 – 2500 LIMESTONE: very pale orange (10 YR 8/2); 15% porosity, intergranular, moldic; grain type: biogenic, skeletal, calcilutite, 50% > 0.062mm, mode: microcrystalline, range: medium; moderate induration; sparry calcite cement and calcilutite matrix; 1% clay, glauconite; benthic formaminifera, *Heliocostegina gyralis*, mollusks w/ glauconite

2500 – 2510 DOLOMITE, dark yellowish brown (10 Y 4/2); 5% porosity, intercrystalline, possibly low permeability, high alteration, very fine to microcrystalline grained euhedral crystals, good induration

2510 – 2540 LIMESTONE: very pale orange (10 YR 8/2); 5% porosity, intergranular, moldic; grain type: biogenic, crystal, skeletal, calcilutite, 65% > 0.062mm, mode: microcrystalline, range: medium; moderate induration; sparry calcite cement and calcilutite matrix; benthic formaminifera, mollusks

- 2540 – 2600 DOLOMITE, dark yellowish brown (10 Y 4/2); 5% porosity, intercrystalline, possibly low permeability, high alteration, very fine to microcrystalline grained euhedral crystals, good induration
- 2600 – 2610 LIMESTONE, pale yellowish brown (10 YR 6/2); 10% porosity, intergranular, moldic, vugular; grain type: biogenic, skeletal, calcilutite, 25% > 0.062mm, mode: microcrystalline, range: medium; moderate induration; sparry calcite cement and calcilutite matrix; benthic formaminifera, pellets
- 2610 – 2640 LIMESTONE (calcarenite): very pale orange (10 YR 8/2); 15% porosity, intergranular, moldic; grain type: biogenic, calcilutite, sparry calcite; 75% > 0.062mm, mode: medium, range: medium to microcrystalline; moderate induration; sparry calcite cement and calcilutite matrix; benthic formaminifera
- 2640 – 2660 DOLOMITE, dark yellowish brown (10 Y 4/2); 5% porosity, intercrystalline, possibly low permeability, high alteration, very fine to microcrystalline grained euhedral crystals, good induration
- 2660 – 2670 LIMESTONE (calcarenite): very pale orange (10 YR 8/2); 15% porosity, intergranular, moldic; grain type: biogenic, calcilutite, sparry calcite, range: medium to microcrystalline; moderate induration; sparry calcite cement and calcilutite matrix
- 2670 – 2690 DOLOMITE, dark yellowish brown (10 Y 4/2); 5% porosity, intercrystalline, possibly low permeability, high alteration, very fine to microcrystalline grained euhedral crystals, good induration
- 2690 – 2730 LIMESTONE (calcilutite): grayish orange (10 YR 7/4); 5% porosity, intergranular, possibly low permeability; grain type: biogenic, calcilutite, crystals; 0% > 0.062mm, mode: microcrystalline, poor induration; sparry calcite cement and calcilutite matrix
- 2730 – 2770 DOLOMITE, moderate yellowish brown (10 YR 5/4); 10% porosity, intergranular, intercrystalline, vugular; 50 - 90% dolomite alteration, euhedral, mode: very fine, range: very fine to microcrystalline; good induration; matrix: dolomite cement and sparry calcite cement,

Top Of Injection Zone At 2741

- 2770 – 2780 DOLOMITE, pale yellowish brown (10 YR 6/2); 10% porosity, intergranular, intercrystalline, vugular; 50 - 90% dolomite alteration, euhedral, mode: very fine, range: cryptocrystalline to microcrystalline; good induration; matrix: dolomite cement and sparry calcite cement



- 2780 – 2880 DOLOMITE, moderate yellowish brown (10 YR 5/4); 15% porosity, intergranular, intercrystalline, vugular; 90 - 100% dolomite alteration, euhedral, mode: microcrystalline, range: cryptocrystalline to microcrystalline; good induration; matrix: dolomite cement
- 2880 – 2910 DOLOMITE, moderate yellowish brown (10 YR 5/4); 15% porosity, intercrystalline, vugular; 90 - 100% dolomite alteration, euhedral, mode: very fine, range: cryptocrystalline to very fine; good induration; matrix: dolomite cement
- 2910– 2930 DOLOMITE, dark yellowish brown (10 YR 4/2); 10% porosity, intercrystalline, vugular, low permeability; 90 - 100% dolomite alteration, euhedral, mode: microcrystalline, range: microcrystalline to cryptocrystalline; good induration; matrix: dolomite cement
- 2930– 2990 DOLOMITE, pale yellowish brown (10 YR 6/2); 15% porosity, intercrystalline, vugular; 90 - 100% dolomite alteration, euhedral, mode: very fine, range: microcrystalline to very fine; good induration; matrix: dolomite cement
- 2990– 3010 DOLOMITE, grayish orange (10 YR 7/4); 15% porosity, intercrystalline, vugular, 90 - 100% dolomite alteration, euhedral, mode: very fine, range: microcrystalline to very fine; good induration; matrix: dolomite cement
- 3010– 3100 DOLOMITE, pale yellowish brown (10 YR 6/2); 10% porosity, intercrystalline, vugular; 90 - 100% dolomite alteration, euhedral, mode: very fine, range: microcrystalline to very fine; good induration; matrix: dolomite cement
- 3100– 3150 DOLOMITE, moderate yellowish brown (10 YR 5/4); 25% porosity, intercrystalline, intergranular, possible high permeability; 90 - 100% dolomite alteration, euhedral, mode: very fine, range: fine to microcrystalline; good induration; matrix: dolomite cement, sucrosic

### **Cedar Keys Formation**

- 3150– 3180 DOLOMITE, moderate yellowish brown (10 YR 5/4); 20% porosity, intercrystalline, intergranular, possible high permeability; 90 - 100% dolomite alteration, euhedral, mode: very fine, range: fine to microcrystalline; good induration; matrix: dolomite cement with 10% Gypsum

- 3180– 3370 DOLOMITE, olive gray (5 Y 4/1); 10% porosity, intercrystalline, vugular, low permeability; 90 - 100% dolomite alteration, euhedral, mode: very fine, range: fine to microcrystalline; good induration; matrix: dolomite cement with 20% Gypsum
- 3370– 3410 DOLOMITE, pale yellowish brown (10 YR 6/2); 10% porosity, intercrystalline, vugular; 90 - 100% dolomite alteration, euhedral, mode: very fine, range: fine to microcrystalline; good induration; matrix: dolomite cement with 20% Gypsum
- 3410– 3500 DOLOMITE, olive gray (5 Y 4/1); 10% porosity, intercrystalline, vugular, low permeability; 90 - 100% dolomite alteration, euhedral, mode: very fine, range: fine to microcrystalline; good induration; matrix: dolomite cement with 20% Gypsum

**OKEECHOBEE LANDFILL, INC.  
LITHOLOGIC DESCRIPTIONS**

**EXPLORATORY / INJECTION WELL – MW-1**

**Undifferentiated Marine Terrace Deposits**

0-140 SAND; yellowish gray (5Y 8/1) high permeability; grain type: biogenetic, skeletal; phosphatic sand (10%)

**Hawthorn Group – Peace River Formation**

140 – 150 CLAY; pale olive (10 Y 6/2) to grayish olive (10 Y 4/2); 10% porosity, intergranular, porosity, low permeability; poor induration; clay and dolomite cement; 45% silt sized dolomite, 20% quartz sand, 2% phosphate; mollusks, fossil fragments

150-160 SAND; fine grain clean white sand, productive zone in local wells

150 – 210 DOLO-SILT; pale olive (10 Y 6/2) to grayish olive (10 Y 4/2); 10% porosity, intergranular porosity, low permeability; poor induration with clay and dolomite cement; 5% quartz sand, 2% phosphate, 2% clay; mollusks

210 – 220 SHELL BED; yellowish gray (5 Y 7/2), 15% porosity, intergranular porosity; poor induration with clay, dolomite, and micrite cements; 45% silt sized dolomite, 2% clay, 2% phosphate; mollusks

220 – 440 DOLO-SILT; light olive gray (5 Y 5/2); 10% porosity, intergranular porosity, low permeability; poor induration with clay and dolomite cements; 2% clay, 2% quartz sand, 2% phosphate

440 – 570 DOLO-SILT; pale olive (10 Y 6/2); 10% porosity, intergranular porosity, low permeability; poor induration with clay and dolomite cements; 2% clay, 10% phosphate, 10% quartz sand

570 – 660 DOLO-SILT; pale olive (10 Y 6/2); 10% porosity, intergranular porosity, low permeability; poor induration with clay and dolomite cement; 1% clay, 5% phosphate, 10% quartz sand, limestone fragments

660 – 670 Reworked zone – Ocala Limestone fragments in dolosilt/clay sand matrix

### **Ocala Limestone**

- 670 – 680 Limestone, very pale orange (10 YR 8/2), 20% porosity, intergranular and moldic porosity, medium permeability, grain types are skeletal, micrite and sparry calcite, poor induration with micrite and sparry calcite cements, benthonic foraminifera, mollusks, bryozoans, and corals
- 680 – 730 Limestone, very pale orange (10 YR 8/2); 15% porosity, intergranular, moldic and vugular porosity, medium permeability; grain types are biogenic, micrite and skeletal, moderate induration with micrite and sparry calcite cements, mollusks, benthonic foraminifera (*Lepidocyclus* and *Operculinoides sp.*)
- 730- 800 Limestone; very pale orange (10 YR 8/2); 15% porosity, intergranular, moldic and vugular porosity, medium permeability; grain types are biogenic, skeletal, and micrite, moderate induration with micrite and sparry calcite cements, benthonic foraminifera

### **Avon Park Formation**

- 800 -820 Limestone (calcarenite); white (N 9); 15 porosity, intergranular porosity; grain types are biogenic, skeletal, and crystal; medium grained, moderate induration with micrite sparry calcite, and dolomite cements; dolomitic; cones – *Dictyoconus cookie*
- 820 – 830 Limestone (calcilutite), yellowish gray (5 Y 8/1); 5% porosity, intergranular porosity; grain type: skeletal, micrite, very fine grained, moderate induration with micrite cement, trace phosphatic sand; cones, benthic foraminifera
- 830 -850 Limestone, (calcilutite), yellowish gray (5 Y 8/1); 5% porosity, intergranular porosity, possibly low permeability; grain type: skeletal, calcilutite; calcilutite matrix; cones, benthic foraminifera
- 850 – 870 Limestone, yellowish gray (5 Y 8/1); 15% porosity, intergranular porosity, grain type is skeletal, micrite, and crystal, moderate induration with micrite and sparry calcite cements, dolomitic; benthonic foraminifera
- 860 – 880 Limestone, (calcarenite), dark yellowish brown (10 YR 4/2); 15% porosity, intergranular porosity; grain types are skeletal, micrite, and crystal, good induration with sparry calcite, micrite and dolomite cements, 10% dolomite; benthic foraminifera; dolomitic limestone

- 880 – 890 Limestone (calcilutite), yellowish gray (5 Y 7/2); 15% porosity, intergranular porosity, pinpoint vugs; grain type: skeletal, calcilutite; calcilutite matrix, cones, benthic foraminifera; *Dictyconus Americanus*; dolomitic limestone
- 890 – 900 Limestone, yellowish gray (5 YR 8/1); 15% porosity, intergranular porosity, grain types are skeletal, biogenic, and crystal calcilutite; moderate induration with sparry calcite and micrite cements, millioids, benthic foraminifera; *Dictyconus americanus*
- 900 – 920 Limestone (calcilutite), pinkish gray (5 YR 8/1), 5% porosity, intergranular porosity, possibly low permeability; grain types are: skeletal and micrite; moderate induration with micrite cement; dolomitic; cones, benthic foraminifera; *Dictyconus americanus*; dolomitic
- 920- 930 Limestone (calcilutite), light gray (N7), 5% porosity, intergranular and vugular porosities, possibly low permeability, grain types are skeletal and micrite, very fine grained, moderate induration with micrite and sparry calcite cements, dolomitic; cones, benthonic foraminifera
- 930 -960 Limestone (calcilutite), yellowish gray (5 YR 8/1); 5% porosity, intergranular and vugular porosity, possibly low permeability, grain types are skeletal and micrite, very fine grained, moderate induration with micrite cement, 5% chert; dolomitic; cones, benthonic foraminifera
- 960 – 980 Limestone, yellowish gray (5 YR 8/1); 5% porosity, intergranular porosity, possibly low permeability, grain types are skeletal and micrite, moderate induration with micrite cement; cones, benthonic foraminifera
- 980 – 1000 Limestone, yellowish gray (5 YR 8/1); 15% porosity, intergranular porosity, pinpoint vugs; grain types are skeletal, crystal, and micrite, moderate induration with sparry calcite cements and micrite cements, benthonic foraminifera
- 1000 – 1040 Dolomite, dark yellowish brown (10 YR 4/2); 15% porosity, intercrystalline and vugular porosity, pinpoint vugs; high alteration, very fine grained euhedral crystals, good induration with dolomite and micrite cements; benthic foraminifera
- 1040 – 1060 Limestone, yellowish gray (5 Y 8/1); 15% porosity, intergranular and moldic porosities; grain types are skeletal and micrite, moderate induration with micrite cement, benthonic foraminifera

- 1060 – 1070 LIMESTONE (calcilutite), yellowish gray (5 Y 8/1); 5% porosity, intergranular and vugular porosities, possibly low permeability, grain types are micrite and crystal, very fine grained, moderated induration with sparry calcite and micrite cements
- 1070 -1090 LIMESTONE, yellowish gray (5 Y 8/1); low permeability, intergranular; grain type: skeletal, calcilutite; 0 -10% dolomite alteration; calcilutite matrix; cones, benthic foraminifera; dolomitic limestone
- 1070 – 1080 LIMESTONE; Light yellowish brown (5 YR 6/1); 15% porosity, intergranular, pinpoint vugs; grain type: sand, clay; 0 -10% dolomite alteration; sparry calcite, calcilutite matrix; dolomitic; cones, benthic foraminifera; dolomitic limestone
- 1080 – 1100 DOLOMITE, yellowish gray (5 YR 8/1); 10% porosity, intercrystalline and vugular porosity, high alteration, very fine grained euhedral crystals, good induration with dolomite and micrite cements, 10% micrite
- 1100 – 1120 LIMESTONE; moderate yellowish brown (10 YR 5/4); 15% porosity, intergranular and moldic porosity, pinpoint vugs; grain types are skeletal, crystal, and micrite, good induration with sparry calcite and micrite cements, 10% dolomite
- 1120 – 1200 DOLOMITE, pale yellowish brown (10 YR 6/2); 15% porosity intercrystalline, vugular and moldic porosities, possibly high permeability, high alteration, very fine grained euhedral crystals, moderate induration with dolomite and micrite cements, sucrosic
- 1200 -1220 DOLOMITE; moderate yellowish brown ( 10 YR 5/4); 10% porosity, intercrystalline and vugular porosity, pinpoint vugs; high alteration, very fine grained subhedral to euhedral crystals; good induration with sparry calcite and dolomite cements; sucrosic
- 1220 – 1230 DOLOMITE: dark yellowish brown (10 YR 4/2); 10% porosity, intercrystalline and moldic porosity, pinpoint vugs; high alteration; good induration with dolomite cement; sucrosic, fossil molds
- 1230 -1240 DOLOMITE, brownish gray (10 YR 4/1); 2% porosity, intercrystalline and intracrystalline porosity, pinpoint vugs; high alteration, microcrystalline to very fine grained euhedral crystals, good induration with dolomite cement, unfossiliferous

- 1240 – 1260 DOLOMITE, moderate yellowish brown (10 YR 5/4) 15% porosity, intercrystalline, pinpoint vugs, possibly high permeability; high alteration, very fine grained euhedral crystals, good induration, with dolomite cement; sucrosic
- 1260 – 1270 LIMESTONE: yellowish gray (5 Y 8/1); 5% porosity, intergranular porosity, possibly low permeability; grain type is micrite and crystal,: moderate induration with micrite, sparry calcite, dolomite cement; 10% dolomite
- 1270 – 1280 DOLOMITE, brownish gray (10 YR 4/1); 10% porosity, intercrystalline and vugular porosity, pinpoint vugs, high alteration, euhedral crystals; good induration with dolomite and micrite cements
- 1280 – 1300 DOLOMITE, moderate yellowish brown (10 YR 5/4); 15% porosity, intercrystalline porosity, pinpoint vugs; possibly high permeability, high alteration; very fine grained euhedral crystals, good induration; dolomite cement
- 1300 – 1310 DOLOMITE, moderate yellowish brown (10 YR 5/4); 15% porosity, intercrystalline, pinpoint vugs, possibly high permeability; high alteration; microcrystalline to very fine grained euhedral crystals, good induration with dolomite cement; trace glauconite
- 1310 – 1320 DOLOMITE, moderate yellowish brown (10 YR 5/4); 10% porosity, intercrystalline and vugular porosity, pinpoint vugs, high alteration; good induration; with dolomite cement
- 1320 – 1340 LIMESTONE, yellowish gray (5 Y 8/1); 5% porosity, intergranular porosity, possibly low permeability, grain type are skeletal and micrite, moderated induration with sparry calcite and micrite cements; 10% dolomite
- 1340 – 1370 LIMESTONE, yellowish gray (5 Y 8/1); 15% porosity, intergranular, moldic and vugular porosity, possibly high permeability; grain types are crystal, skeletal, and biogenic, good induration with sparry calcite and micrite cement;, benthonic foraminifera, mollusks, bryozoans
- 1370 – 1380 LIMESTONE, yellowish gray (5 Y 8/1), 15% porosity, intergranular; grain types is micrite and skeletal, moderate induration with sparry calcite and micrite cements, cones, benthonic foraminifera
- 1380 – 1390 LIMESTONE: moderate yellowish brown (10 YR 5/4); 5% porosity, intergranular porosity, possibly low permeability; grain types are biogenic, skeletal and crystal, poor induration with micrite and sparry calcite cements, 10% dolomite, forams

- 1390 - 1400 Limestone: pale yellowish brown (10 YR 6/2); 5% porosity, intergranular porosity, possibly low permeability, grain types are biogenic, skeletal and crystal, moderate induration with sparry calcite and micrite cement; benthonic foraminifera; *Dictyoconus americanus*
- 1400 – 1420 Limestone, dark yellowish brown (10 YR 4/2); 5% porosity, intergranular porosity, possibly low permeability, grain types are micrite and skeletal, poor induration with micrite cement; 10% dolomite; cones, benthonic foraminifera
- 1420 – 1430 Limestone: moderate yellowish brown (10 YR 5/4); 5% porosity, intergranular porosity, possibly low permeability, pinpoint vugs; grain types are skeletal micrite, poor induration with micrite cement, 10% dolomite; cones, benthic foraminifera
- 1430 – 1440 Limestone, pale yellowish brown (10 YR 6/2); 5% porosity, intergranular porosity, possibly low permeability, grain types are biogenic, skeletal, and crystal; poor induration with micrite cement, cones, benthonic foraminifera
- 1440 – 1450 Dolomite,: pale yellowish brown (10 YR 6/2); 10% porosity, intercrystalline and vugular porosity, high alteration, very fine grained euhedral crystals, moderate induration with dolomite and micrite cements; cones, benthonic foraminifera
- 1450 – 1460 Limestone: pale yellowish brown (10 YR 6/2); 5% porosity, intergranular and vugular porosity, possibly low permeability, grain type are skeletal and micrite, moderate induration with micrite cement; cones, benthic foraminifera; dolomitic limestone
- 1460 – 1470 Dolomite, dark yellowish brown (10 YR 4/2); 5% porosity, intercrystalline and vugular porosity, possibly low permeability, high alteration, microcrystalline to very fine euhedral crystals, good induration with dolomite cement; cones, benthonic foraminifera
- 1470 – 1490 Dolomite, moderate yellowish brown ( 10 YR 5/4); 15% porosity, intercrystalline porosity, pinpoint vugs; high alteration; good induration with dolomite cement; trace hematite
- 1490 - 1510 Dolomite, pale yellowish brown (10 YR 6/2); 5% porosity, intercrystalline porosity, pinpoint vugs; high alteration very fine grained euhedral crystals, good induration with dolomite cement; 5% glauconite



- 1510 - 1530 DOLOMITE, dark yellowish brown (10 YR 4/2); 5% porosity, intercrystalline porosity, possibly low permeability, pinpoint vugs; high alteration; very fine grained euhedral crystals, good induration with dolomite cement; 5% glauconite; benthonic foraminifera
- 1530 – 1540 DOLOMITE, moderate yellowish brown (10 YR 5/4); 20% porosity, intercrystalline, pinpoint vugs, possibly high permeability; high alteration, very fine grained euhedral crystals, good induration with dolomite cement; sucrosic;
- 1540 – 1560 DOLOMITE, dark yellowish brown (10 YR 4/2); 5% porosity, intercrystalline porosity, pinpoint vugs; high alteration; very fine grained euhedral crystals, moderate induration with dolomite cement; 5% glauconite;; cones, benthonic foraminifera
- 1560 – 1580 DOLOMITE, moderate yellowish brown (10 YR 5/4); 15% porosity, intercrystalline porosity, pinpoint vugs, possibly high permeability; high alteration; euhedral crystals good induration with dolomite cement
- 1580 – 1590 DOLOMITE, dark yellowish brown (10 YR 4/2); 15% porosity, intercrystalline porosity; pinpoint vugs, high alteration; good induration with dolomite cement
- 1590 – 1600 DOLOMITE, moderate yellowish brown (5 YR 5/4); 20% porosity intercrystalline and vugular porosity, possibly high permeability; high alteration; very fine grained euhedral crystals, moderate induration with dolomite cement, benthonic foraminifera
- 1600 – 1610 DOLOMITE, light brownish gray (10 YR 6/1); 15% porosity, intercrystalline porosity, pinpoint vugs, high alteration, very fine grained euhedral crystals, good induration with dolomite cement
- 1610 – 1620 DOLOMITE, moderate yellowish brown (10 YR 5/4); 25% porosity, intercrystalline and vugular porosity, possibly high permeability; high alteration; good induration with dolomite cement
- 1630 – 1650 DOLOMITE, moderate yellowish brown (10 YR 5/4); 25% porosity, intercrystalline and vugular porosity, possibly high permeability; high alteration; good induration with dolomite cement
- 1650 – 1680 DOLOMITE, moderate yellowish brown (5 Y 8/1); 15% porosity, intercrystalline and moldic porosity, pinpoint vugs, high alteration, very fine grained euhedral crystals, good induration with dolomite cement, fossil molds

- 1680 – 1700 Limestone, very pale orange (10 YR 8/2); 10% porosity, intergranular and moldic porosity; grain types are biogenic, skeletal, and micrite, moderate induration with micrite cement, benthonic foraminifera, millioids
- 1700 – 1730 Limestone, very pale orange (10 YR 8/2); 10% porosity, intergranular porosity, grain types are skeletal, micrite and crystal, moderate induration with sparry calcite and micrite cement, benthonic foraminifera
- 1730 – 1760 Dolomite, pale yellowish brown (10 YR 6/2); 5% porosity, intercrystalline and vugular porosity, possibly, low permeability, pinpoint vugs; high alteration, very fine grained euhedral crystal, good induration with dolomite and micrite cements, benthonic foraminifera
- 1760 – 1790 Limestone, very pale orange (10 YR 8/2); 5% porosity, intergranular porosity, grain types are biogenic micrite and skeletal, poor induration with micrite cement, benthonic foraminifera
- 1790 – 1810 Limestone, very pale orange (10 YR 8/2); 10% porosity, intergranular and moldic porosity; grain type is biogenic, skeletal and micrite, moderate induration with micrite cement, mollusks. benthonic foraminifera
- 1810 – 1840 Limestone, very pale orange (10 YR 8/2); 15% porosity, intergranular and moldic porosity, grain types are micrite, biogenic and skeletal, 40% > .625 mm, very fine to medium grained, moderate induration with micrite cement, benthonic foraminifera, cones
- 1840 – 1920 Limestone, very pale orange (10 YR 8/2); 5% porosity, intergranular and vugular porosity, possibly low permeability, grain types micrite, crystal, and biogenic, 20% > .65mm, microcrystalline to fine grained, poor induration with sparry calcite and micrite cements, benthonic foraminifera, cones
- 1920 – 2000 Limestone, very pale orange (10 YR 8/2); 10% porosity, intercrystalline, intergranular, and vugular porosity; grain types is crystal, micrite, and biogenic, 20% > .65mm, moderate induration with sparry calcite and micrite cements, benthonic foraminifera
- 2000 – 2010 80/20 light brownish gray Dolomite and very pale orange Limestone moderate yellowish brown (5 Y 8/1); 15% porosity, intercrystalline and moldic porosity, pinpoint vugs, high alteration, very fine grained euhedral crystals, good induration with dolomite cement, fossil molds

- 2010 – 2040 DOLOMITE, pale yellowish brown (10 YR 6/2); 5% porosity, intercrystalline and vugular porosity, possibly, low permeability, pinpoint vugs; high alteration, very fine grained euhedral crystal, good induration with dolomite and micrite cements, benthonic foraminifera
- 2040– 2100 DOLOMITE, grayish orange (10 YR 7/4); 10% porosity, intercrystalline and vugular porosity, high alteration, microcrystalline to very fine grained euhedral crystals, good induration with dolomite cement, unfossiliferous
- 2020 – 2030 DOLOMITE, pale yellowish brown (10 YR 6/2); 5% porosity, intercrystalline porosity, possibly low permeability, high alteration, very fine grained euhedral crystals, good induration with dolomite cement

#### **Confining Sequence**

- 2100 – 2140 DOLOMITE, dark yellowish brown (10 YR 4/2); 10% porosity, intercrystalline porosity, high alteration, subhedral; good induration; with dolomite cement
- 2140 – 2152 DOLOMITE, moderate yellowish brown (10 YR 5/4), 15% porosity, intercrystalline, vugular, and moldic porosity, possibly high permeability, high alteration, very fine grained euhedral crystals, sucrosic, good induration with dolomite cement