1st Semi-Annual 2012 Groundwater Monitoring Report

for

MSW Landfill

Macon County Municipal Solid Waste (MSW) Landfill
Permit No: 57-03

April 2012

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In preparing this report, the professional services of REI Consultants, Inc. have been performed, findings obtained, and conclusions reached in accordance with present State and Federal regulations, and generally accepted review principles and practices. Questions regarding any of the information presented in this report should be directed to REIC headquarters at (304) 255-2500.

Respectfully submitted,

7/20/12

Michael P. Hofe, P.E. (NC #28029)
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1.0 EXECUTIVE SUMMARY

REI Consultants, Inc. (REIC) has prepared the 1st Semi-Annual Water Quality Monitoring Report for 2012 for the Macon County Municipal Solid Waste (MSW) Landfill, Permit No. 57-03, an active municipal solid waste disposal facility located in Macon County, North Carolina. Water quality monitoring at the facility is performed on a semi-annual basis and consists of sampling groundwater monitoring wells and surface water locations in the vicinity of the landfill. This report has been prepared in accordance with NCAC 13B Section .1632(i).

The 1st semi-annual monitoring event was performed on April 19, 2012. Groundwater samples were collected from eighteen (18) monitoring wells; in addition, samples were collected from four (4) surface water locations. All samples were analyzed for North Carolina Appendix I parameters. No volatile organic compounds (VOCs) were detected above laboratory Solid Waste Section Limits (SWSLs) with the exception of 1,4-dichlorobenzene in wells MW-1A, MW-1B, and MW-1D. No VOCs were detected above North Carolina groundwater quality standards. The VOC detections are limited to one area of the facility northwest of the closed landfill. Note that Macon County is in the process of implementing a corrective action plan to address issues associated with the presence of VOCs in this area of the facility.

Metals detected above North Carolina groundwater standards in compliance wells were as follows:

Parameter	Monitoring Well
Barium	MW-15, MW-22
Chromium	MW-22
Cobalt	MW-1A, MW-2, MW-15, MW-21, MW-22
Lead	MW-15, MW-22
Vanadium	MW-22

Of the groundwater standard exceedances, only barium, cobalt, and lead in well MW-15 were higher than statistical limits calculated from background data. However, note that appreciable suspended solids were present in the sample collected from this well. In addition, analysis of the samples for dissolved metals yielded a low concentration of barium and no detections of cobalt or lead. Due to the solids in the sample and the lack of elevated dissolved metals, it is likely that the total metals elevations were the result of naturally occurring material associated with sediments in well MW-15. All other groundwater protection standard exceedances in wells MW-1A, MW-2, MW-21, and MW-22 were below background statistical limits and therefore are due to natural variation (see Appendix E, "Alternate Source Demonstration").

Static groundwater elevations were measured in each monitoring well prior to sampling. These measurements were converted to groundwater elevations, which were used to develop generalized potentiometric contours in the vicinity of the MSW Landfill. From this data, groundwater appears to be flowing to the west, northwest, and north in the vicinity of the waste areas. An average groundwater flow rate across the landfill has been estimated at 10 feet/year.

It is recommended that the Macon County MSW Landfill remain in detection monitoring for the 2nd semiannual monitoring period of 2012, with continued monitoring for delineation and trends of VOCs in the corrective action area of the facility.

2.0 INTRODUCTION

REI Consultants, Inc. (REIC) has prepared the 1st Semi-Annual Water Quality Monitoring Report for 2012 for the Macon County MSW Landfill, Permit No. 57-03, an active municipal solid waste disposal facility located approximately a mile and half north of the town of Franklin in Macon County, North Carolina. The facility consists of a completed waste area, no longer active, in the southwest area of the property, and an active cell situated northeast of the closed area. A baling facility and recycling area are located east of the active portion of the landfill. Lake Emory (the Little Tennessee River) is situated to the northwest and north of the site.

The groundwater monitoring well network at the MSW Landfill consists of wells MW-1A, MW-1B, MW-1D, MW-2, MW-3A, MW-5D, MW-10, MW-14, MW-15, MW-17, MW-18, MW-19, MW-19A, MW-20, MW-21, MW-22, MW-22A, and MW-23 (see Figure 1 for locations). Monitoring wells MW-10, MW-17, and MW-18 are located hydraulically upgradient of the waste areas, and therefore are designated as the background wells for the facility. Monitoring wells MW-1A, MW-1B, MW-2, MW-3A, MW-5D, MW-14, MW-15, MW-19, MW-19A, MW-20, MW-21, MW-22, and MW-22A are located downgradient of the waste areas, and are monitored as detection program compliance wells. Well MW-5D was installed prior to the 2nd semi-annual 2008 event in order to replace well MW-5, which had been dry since 2000. The facility is currently in detection monitoring. However, limited assessment activities have been performed in the vicinity of wells MW-1A and MW-1B due to VOC detections in these wells. Wells MW-1D and MW-23 were installed prior to the 2nd semi-annual 2007 monitoring event in order to monitor VOCs vertically and horizontally downgradient of wells MW-1A and MW-1B. Wells MW-1D and MW-23 will continue to be monitored for delineation and trends of VOCs, and

Macon County is implementing a corrective action plan to address issues associated with the presence of VOCs in this area of the facility.

In addition to the above monitoring wells, samples are collected from four (4) surface water locations, designated SW-1, SW-2, SW-3, and SW-4. Sample SW-1 is collected from Lake Emory downriver from the effluent of the Town of Franklin Wastewater Treatment Plant, which is located adjacent to the southwest end of the landfill. SW-2 is located approximately 1450 feet downriver of SW-1. Samples SW-3 (upstream) and SW-4 (downstream) are collected from a perennial tributary stream to Lake Emory that runs north along the east side of the landfill facility (see Figure 1 for locations). Surface water samples are analyzed semiannually for Appendix I parameters. In addition to the groundwater and surface water samples, a sample is collected semi-annually from the MSW Landfill leachate pond; this sample is analyzed for Appendix I parameters and nitrate, sulfate, phosphate, BOD, and COD.

For the 1st semi-annual 2012 monitoring event, field sampling was performed on April 19, 2012. Samples were collected from all of the above sample locations.

3.0 HYDROLOGIC EVALUATION

Static water levels were measured from the top of casing (TOC) prior to purging in all wells during the sampling event. These water level measurements, in conjunction with surveyed TOC elevation data, were used to calculate static groundwater elevations in each well. Groundwater elevation data from the 1st semi-annual 2012 monitoring event was contoured to represent the potentiometric surface of the upper-most (water table) aquifer in the vicinity of the landfill. Elevation data and the influence of topographical

features were utilized to estimate contours. A copy of the resulting potentiometric map is included in this report (see Figure 1).

The majority of the monitoring wells at the facility are screened in the soil/saprolite layer overlying the resident bedrock. Two wells, MW-1A and MW-3A, are reportedly installed in bedrock. The two wells in the pair MW19/MW19-A are both screened in saprolite; MW-19A is screened at a greater depth than well MW-19. In well pair MW-22/MW22-A, well MW-22 is screened in shallow saprolite and well MW-22A monitors the transition zone at the saprolite/bedrock interface. Wells MW-1D and MW-5D are completed in bedrock, while well MW-23 is screened in the saprolite.

Generally, groundwater flows under the closed portion of the facility to the west and northwest, and under the active area to the northwest and north. Groundwater flows from upland areas toward Lake Emory. The background wells MW-10, MW-17, and MW-18 are situated hydrologically upgradient of the landfill, and all compliance wells are located hydrologically downgradient of the waste areas.

Previous investigators conducted both in-situ aquifer slug tests and laboratory permeability tests in order to estimate typical hydraulic conductivities at the site. Elevation data from the potentiometric map was utilized to estimate hydraulic gradients in the vicinity of the facility. This information has been applied in a form of Darcy's Law to calculate the groundwater seepage velocity across the site, which was estimated to be 10 ft/year. Groundwater flow rate calculations are included in Appendix A.

4.0 SAMPLING AND LABORATORY ANALYSIS

Monitoring wells at the MSW Landfill were purged and sampled using laboratory decontaminated Teflon® single check valve bailers. Field testing of pH, temperature, conductivity, and turbidity were measured to ensure adequate purging. Samples were collected in pre-cleaned and appropriately preserved containers, transported in iced coolers, and delivered to the laboratory in good condition. All wells were sampled during the 1st semi-annual monitoring event. Several groundwater samples were noted as exhibiting very high turbidity. Field sampling logs are included in Appendix B. A summary of field sample data is included in Table 1.

All samples were analyzed by REIC's North Carolina certified laboratory. The laboratory quality assurance program included all appropriate, method specific quality controls (QC). All laboratory data met the required QC criteria and stringent REIC acceptance review prior to inclusion in this report. No VOCs were detected above SWSLs with the exception of 1,4-dichlorobenzene in wells MW-1A, MW-1B, and MW-1D. No VOC detections exceeded North Carolina groundwater standards.

Metals detected above North Carolina groundwater standards in compliance wells were as follows:

Parameter	Monitoring Well
Barium	MW-15, MW-22
Chromium	MW-22
Cobalt	MW-1A, MW-2, MW-15, MW-21, MW-22
Lead	MW-15, MW-22
Vanadium	MW-22

A summary of laboratory results in included in Table 2. Laboratory reports and chain-of-custody records are included in Appendix C. Data have been reported to method detection limits (MDLs) as requested by NCDENR. However, note that any values reported below SWSLs, flagged with a "J" qualifier, are only estimates, are not quantitative, and should not be used numerically in any way. Historical results are given in Appendix D.

5.0 STATISTICAL ANALYSIS

The updated regulations at 15A NCAC 13B Section .1633 no longer require statistical analysis to be performed as a routine screening tool during detection monitoring. However, due to the number of groundwater standards exceedances for metals in several monitoring wells, statistical analysis was utilized to demonstrate that a majority of these metals concentrations were less than background levels.

Only barium, cobalt, and lead in well MW-15 exceeded the statistical background limits. However, due to the presence of solids in the sample and the lack of elevated dissolved metals, it is likely that the total metals elevations were the result of naturally occurring material associated with sediments in well MW-15 (see Appendix E, "Alternate Source Demonstration"). All other exceedances of groundwater standards were below background statistical limits. This indicates that the cobalt exceedances in wells MW-1A, MW-2, MW-21, and MW-22, and the barium, chromium, lead, and vanadium exceedances in well MW-22 are due to natural variation, as these parameters have been observed in the upgradient background wells at the facility at higher levels than those exhibited in compliance wells. The Statistical Analysis Summary is included in Appendix E, "Alternate Source Demonstration".

6.0 CONCLUSIONS AND RECOMMENDATIONS

- The 1st semi-annual 2012 water quality monitoring event at the Macon County MSW Landfill has been performed in accordance with State and Federal guidelines.

- The direction of groundwater flow in the vicinity of the waste areas is generally to the west, northwest, and north from upland areas toward Lake Emory.

- The average rate of groundwater flow in the vicinity of the landfill is estimated at 10 feet/year.

- No VOCs were detected with the exception of 1,4-dichlorobenzene in wells MW-1A, MW-1B, and MW-1D.

- No VOC detections exceeded North Carolina groundwater standards.

- Metals detected above North Carolina groundwater standards in compliance wells were as follows: barium in wells MW-15 and MW-22; chromium in well MW-22; cobalt in wells MW-1A, MW-2, MW-15, MW-21, and MW-22; lead in wells MW-15 and MW-22; and vanadium in well MW-22.

- All of the above exceedances were below statistical background with the exception of barium, cobalt, and lead in well MW-15. However, it is likely that the total metals elevations were the result of naturally occurring material associated with sediments in well MW-15.

- The cobalt exceedances in wells MW-1A, MW-2, MW-21, and MW-22, and the barium, chromium, lead, and vanadium exceedances in well MW-22

were below background statistical limits and therefore are attributed to natural variation, as these parameters have been observed in the upgradient background wells at the facility at higher levels than those exhibited in compliance wells.

- It is recommended that the Macon County MSW Landfill remain in detection monitoring for the 2nd semiannual monitoring period of 2012, with continued monitoring for delineation and trends of VOCs in the corrective action area of the facility.

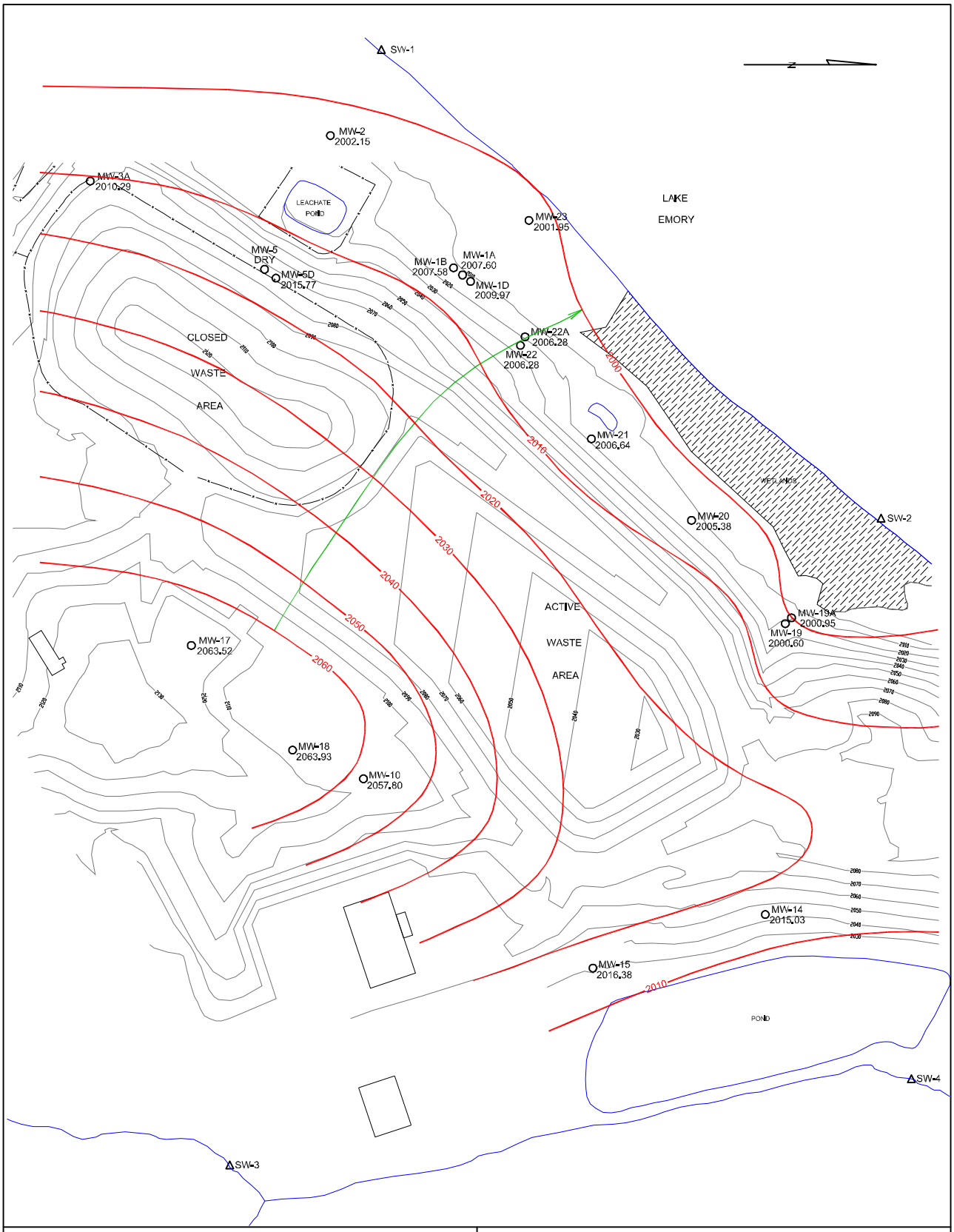
Macon County Municipal Solid Waste (MSW) Landfill

Macon County, North Carolina

Permit Number: 57-03

Figure 1:

Potentiometric Map



POTENTIOMETRIC CONTOURS

MUNICIPAL SOLID WASTE LANDFILL
MACON COUNTY, NORTH CAROLINA
PERMIT NO. 57-03

1ST SEMIANNUAL 2012 MONITORING EVENT DATA

PREPARED BY:
REI CONSULTANTS, INC.
JUNE 2012

REI Consultants, Inc.

LEGEND

○	MONITORING WELL LOCATION
△	SURFACE WATER SAMPLING LOCATION
2015.84	GROUNDWATER ELEVATION
———	TOPOGRAPHIC CONTOURS
———	POTENTIOMETRIC CONTOURS
———	GROUNDWATER FLOW PATH
———	WATER (STREAMS, PONDS, LAKE)

ALL MEASUREMENTS IN FEET

SCALE: 1" = 300'

0 100 200

TABLE 1: SAMPLING LOG SUMMARY

MSW Landfill (Permit: #57-04)

REIC Job #: 1204J43 & 1204J56

Sampling Date: 4/19/2012

Sampler(s): Randy Farley / Allen McBride / Billy Shirley

Weather Conditions: Cloudy and Sunny - 59 - 79°F

Property	Units	MW-1A	MW-1B	MW-1D	MW-2
Sampling Depth	Feet	4.76	5.15	48.49	13.83
Static Depth	Feet	4.65	4.61	3.68	12.63
Well Depth	Feet	31.10	17.45	63.05	20.15
Water Column Height	Feet	26.45	12.84	59.37	7.52
Volume Purged	Liters	46.00	23.00	40.00	8.00
Purging Status	-	Finished Purging	-	Stopped Purging	Purged Dry
Physical Property	Units	MW-1A	MW-1B	MW-1D	MW-2
pH	SU	5.59 / Dup 5.59	5.51 / Dup 5.53	6.69	6.11
Temperature	°C	15.5 / Dup 15.4	14.4 / Dup 14.7	15.20	15.10
Conductivity	umhos/cm	175.9 / Dup 176.9	9.53 / Dup 9.57	593	396
Turbidity	NTU	2.09 / Dup 2.06	149.8 / Dup 149.6	37.40	6.51
Appearance	-	Clear	Clear	Cloudy	Clear
Odor	-	No Odor	No Odor	No Odor	No Odor
Total Suspended Solids (TSS)	mg/L	-	-	29	35

Property	Units	MW-3A	MW-5	MW-5D	MW-10
Sampling Depth	Feet	60.27	-	60.10	59.11
Static Depth	Feet	60.26	55.07	59.90	57.28
Well Depth	Feet	67.62	55.20	69.82	67.60
Water Column Height	Feet	7.36	-	9.92	10.32
Volume Purged	Liters	13.00	-	18.00	8.00
Purging Status	-	Finished Purging	-	Finished Purging	Purged Dry
Physical Property	Units	MW-3A	MW-5	MW-5D	MW-10
pH	SU	5.56 / Dup 5.58	-	5.73	5.62
Temperature	°C	17.3 / Dup 17.2	-	20.70	16.40
Conductivity	umhos/cm	28.2 / Dup 27.8	-	66.4	126.2
Turbidity	NTU	4.85 / Dup 3.94	-	28.80	572.00
Appearance	-	Clear	-	Cloudy	Muddy
Odor	-	No Odor	-	No Odor	No Odor
Total Suspended Solids (TSS)	mg/L	-	-	26	633

TABLE 1: SAMPLING LOG SUMMARY

MSW Landfill (Permit: #57-04)

REIC Job #: 1204J43 & 1204J56

Sampling Date: 4/19/2012

Sampler(s): Randy Farley / Allen McBride / Billy Shirley

Weather Conditions: Cloudy and Sunny - 59 - 79°F

Property	Units	MW-14	MW-15	MW-17	MW-18
Sampling Depth	Feet	38.50	13.61	74.41	56.72
Static Depth	Feet	34.51	12.81	69.78	51.47
Well Depth	Feet	42.57	17.97	83.30	62.08
Water Column Height	Feet	8.06	5.16	13.52	10.61
Volume Purged	Liters	5.00	9.00	24.00	19.00
Purging Status	-	Purged Dry	Finished Purging	Finished Purging	Finished Purging
Physical Property	Units	MW-14	MW-15	MW-17	MW-18
pH	SU	5.50	4.75	5.03	5.94
Temperature	°C	16.40	13.10	16.10	15.30
Conductivity	umhos/cm	27.3	67.5	69.8	50.9
Turbidity	NTU	41.10	>800	134.00	69.70
Appearance	-	Cloudy	Muddy	Cloudy	Cloudy
Odor	-	No Odor	No Odor	No Odor	No Odor
Total Suspended Solids (TSS)	mg/L	84	1590	212	84

Property	Units	MW-19	MW-19A	MW-20	MW-21
Sampling Depth	Feet	20.90	51.38	11.00	18.66
Static Depth	Feet	20.40	19.85	10.02	14.26
Well Depth	Feet	25.80	57.09	23.03	26.93
Water Column Height	Feet	5.40	37.24	13.01	12.67
Volume Purged	Liters	10.00	23.00	23.00	22.00
Purging Status	-	Finished Purging	Purged Dry	Finished Purging	Finished Purging
Physical Property	Units	MW-19	MW-19A	MW-20	MW-21
pH	SU	5.17	6.45	5.22	5.35
Temperature	°C	14.00	15.90	11.10	13.20
Conductivity	umhos/cm	43.4	62.1	74.6	39.3
Turbidity	NTU	>800	28.40	30.10	36.20
Appearance	-	Cloudy	Cloudy	Cloudy	Cloudy
Odor	-	No Odor	No Odor	No Odor	No Odor
Total Suspended Solids (TSS)	mg/L	357	17	20	9

TABLE 1: SAMPLING LOG SUMMARY

MSW Landfill (Permit: #57-04)

REIC Job #: 1204J43 & 1204J56

Sampling Date: 4/19/2012

Sampler(s): Randy Farley / Allen McBride / Billy Shirley

Weather Conditions: Cloudy and Sunny - 59 - 79°F

Property	Units	MW-22	MW-22A	MW-23	SW-1
Sampling Depth	Feet	16.06	30.39	8.35	-
Static Depth	Feet	14.64	11.66	5.13	-
Well Depth	Feet	25.10	42.30	30.95	-
Water Column Height	Feet	10.46	30.64	25.82	-
Volume Purged	Liters	19.00	32.00	45.00	-
Purging Status	-	Finished Purging	Purged Dry	Finished Purging	-
Physical Property	**Units**	**MW-22**	**MW-22A**	**MW-23**	**SW-1**
pH	SU	5.67	6.59	5.93	6.64
Temperature	°C	13.70	14.30	14.60	16.70
Conductivity	umhos/cm	129.2	428	262	70.7
Turbidity	NTU	>800	33.50	41.90	9.76
Appearance	-	Muddy	Cloudy	Cloudy	Clear
Odor	-	No Odor	No Odor	No Odor	No Odor
Total Suspended Solids (TSS)	mg/L	1250	26	18	6

Property	Units	SW-2	SW-3	SW-4	Leachate
Sampling Depth	Feet	-	-	-	-
Static Depth	Feet	-	-	-	-
Well Depth	Feet	-	-	-	-
Water Column Height	Feet	-	-	-	-
Volume Purged	Liters	-	-	-	-
Purging Status	-	-	-	-	-
Physical Property	**Units**	**SW-2**	**SW-3**	**SW-4**	**Leachate**
pH	SU	5.83	6.53	6.48	8.90
Temperature	°C	14.40	18.00	19.90	19.90
Conductivity	umhos/cm	30.7	46.9	46.4	7230
Turbidity	NTU	13.14	35.60	23.20	0.00
Appearance	-	Clear	0.00	Clear	Clear
Odor	-	No Odor	0	No Odor	0
Total Suspended Solids (TSS)	mg/L	12	31	10	31

TABLE 2: SUMMARY OF DETECTIONS

MSW Landfill - Permit No: 57-03

Macon County, North Carolina

VOCs	NC 2L	SWSL	MW-1A	MW-1B	MW-1D	MW-2	MW-3A	MW-5D	MW-10	MW-14	MW-15	MW-17	MW-18	MW-19	MW-19A	MW-20	MW-21	MW-22	MW-22A	MW-23	SW-1	SW-2	SW-3	SW-4
1,1-Dichloroethane	7	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1,4-Dichlorobenzene	6	1	3.0	2.7	3.4	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Benzene	1	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Chlorobenzene	50	3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Chloroethane	3000	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Methylene Chloride	5	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Vinyl chloride	0.03	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Xylenes	500	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
METALs	**NC 2L**	**SWSL**	**MW-1A**	**MW-1B**	**MW-1D**	**MW-2**	**MW-3A**	**MW-5D**	**MW-10**	**MW-14**	**MW-15**	**MW-17**	**MW-18**	**MW-19**	**MW-19A**	**MW-20**	**MW-21**	**MW-22**	**MW-22A**	**MW-23**	**SW-1**	**SW-2**	**SW-3**	**SW-4**
Arsenic	10	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Barium	700	100	*	*	*	*	*	101	394	149	2370	120	110	324	*	*	*	768	*	110	*	*	*	*
Beryllium	4	1	*	*	*	*	*	*	*	*	1.3	*	*	*	*	*	*	2.2	*	*	*	*	*	*
Cadmium	2	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Chromium	10	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	25.0	*	*	*	*	*	*
Cobalt	1	10	20.9	*	*	27.9	*	*	*	*	56.5	*	*	*	*	*	12.9	28.9	*	*	*	*	*	*
Copper	1000	10	*	*	*	*	*	*	*	*	170	*	*	*	*	*	*	28.4	*	*	*	*	*	*
Lead	15	10	*	*	*	*	*	*	*	*	48.3	*	*	10.8	*	*	*	17.6	*	*	*	*	*	*
Nickel	100	50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Selenium	20	10	*	*	*	*	*	*	*	*	14.9	*	*	*	*	*	*	*	*	*	*	*	*	*
Vanadium	0.3	25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	37.8	*	*	*	*	*	*
Zinc	1000	10	*	*	23.7	*	*	*	30.9	36.6	76.8	33.4	*	34.0	21.2	*	*	77.9	18.1	12.0	13.8	*	10.6	*
Total Suspended Solids (TSS)		1	*	*	29	35	*	26	633	84	1590	212	84	357	17	20	9	1250	26	18	6	12	31	10

NOTES:

1. **Solid Waste Section Limit (SWSL)**
2. **NL - Constituent does not have a NC2L Standard**
3. **Constituent that exceed the NC2L Standard are Highlighed in Red**
4. **DRY - Well was dry during sampling event**
5. **All Constituents measured in µg/L - parts per billions (ppb)**
6. **Only compounds detected above the laboratory PQL or SWSL are listed**
7. **NS - Location Not Sampled**

Macon County Municipal Solid Waste (MSW) Landfill

Macon County, North Carolina

Permit Number: 57-03

Appendix A:

Groundwater Flow Rate Calculations

Macon MSW

Flow Path		
X	Y	Distance (ft)
2671.9	-771.4	
2685.2	-747.5	27.4
2701.0	-719.9	31.8
2723.1	-685.0	41.3
2750.8	-639.9	53.0
2787.4	-585.9	65.2
2844.9	-500.1	103.3
2888.8	-435.2	78.4
2926.5	-382.2	65.0
2964.5	-337.1	59.0
3007.0	-288.2	64.8
3052.0	-248.0	60.4
3097.1	-214.1	56.4
3129.9	-194.0	38.5
3169.9	-171.2	46.0
3206.2	-152.1	41.0
3248.4	-131.8	46.8
3275.5	-119.5	29.8
3300.1	-106.7	27.7
3321.7	-93.7	25.2

Hydraulic gradient, I =	0.062	ft / ft
K =	4.9E-05	cm / sec
n_{eff} =	0.27	
V = KI / n_{eff} =	10	ft / yr

Horizontal Distance	960.9	ft
Vertical Difference	60	ft

Macon County Municipal Solid Waste (MSW) Landfill

Macon County, North Carolina

Permit Number: 57-03

Appendix B:

Field Sampling Logs

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: MSW Landfill | Project : 1st Semi 2012 | Well #: MW-1A

Contact Person: Chris Stahl | Phone #: 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/19/2012 10:42 | Weather Conditions: Sunny 70 °F

Static Depth (Depth to Water)	4.65	(Ft)	Volume	15.31 (Liters)
Well Depth	31.10	(Ft)	3 Volumes	45.94 (Liters)
Water Column Height	26.45	(Ft)	Volume Purged	46.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
10:45	5.64	187.5	15.9	6.08	1
10:46	5.62	190.8	14.2	8.89	8
10:48	5.62	185.2	14.2	10.19	16
10:50	5.60	180.2	14.0	10.56	24
10:52	5.59	178.8	14.1	6.35	32
10:54	5.62	177.7	14.3	4.95	40
10:55		Finished Purging			46

SAMPLING DATA

Date: 4/19/2012 | Time: 10:57

Method: Teflon Bailer | Sampling Depth: 4.76'

pH: 5.59 / Dup 5.59 ***(SU)*** | Conductivity: 175.9 / Dup 176.9 ***(umhos/cm)***

Temperature: 15.5 / Dup 15.4 ***(^{o} C)*** | Turbidity: 2.09 / Dup 2.06 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 4/19/2012

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: MSW Landfill | Project : 1st Semi 2012 | Well #: MW-1B

Contact Person: Chris Stahl | Phone #: 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked		x	Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/19/2012 10:45 | Weather Conditions: Sunny 72 °F

Static Depth (Depth to Water)	4.61	(Ft)	Volume	7.43 (Liters)
Well Depth	17.45	(Ft)	3 Volumes	22.30 (Liters)
Water Column Height	12.84	(Ft)	Volume Purged	23.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
11:08	5.64	153.1	16.3	1.51	1
11:09	5.60	153.2	14.1	36.00	4
11:10	5.53	151.2	13.5	46.60	8
11:11	5.54	151.2	13.5	23.70	12
11:12	5.53	150.6	13.6	15.54	16
11:13	5.57	150.2	13.6	13.81	20
11:14					23

SAMPLING DATA

Date: 4/19/2012 | Time: 11:17

Method: Teflon Bailer | Sampling Depth: 5.15'

pH: 5.51 / Dup 5.53 ***(SU)*** | Conductivity: 9.53 / Dup 9.57 ***(umhos/cm)***

Temperature: 14.4 / Dup 14.7 ***(^{o} C)*** | Turbidity: 149.8 / Dup 149.6 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 4/19/2012

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: MSW Landfill | Project : 1st Semi 2012 | Well #: MW-1D

Contact Person: Chris Stahl | Phone #: 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4.19-2012 07:30 | Weather Conditions: Cloudy 60 °F

Static Depth (Depth to Water)	3.68	(Ft)	Volume	34.37 (Liters)
Well Depth	63.05	(Ft)	3 Volumes	103.12 (Liters)
Water Column Height	59.37	(Ft)	Volume Purged	40.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
07:45	6.96	639.0	14.5	2.21	1
07:50	6.94	644.0	14.1	2.30	16
07:54	6.81	679.0	14.1	14.88	32
07:57		Stopped Purging			40

SAMPLING DATA

Date: 4/19/2012 | Time: 11:25

Method: Teflon Bailer | Sampling Depth: 48.49'

pH: 6.69 ***(SU)*** | Conductivity: 593 ***(umhos/cm)***

Temperature: 15.2 ***(^{o} C)*** | Turbidity: 37.4 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 4/19/2012

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: MSW Landfill | Project : 1st Semi 2012 | Well #: MW-2

Contact Person: Chris Stahl | Phone #: 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/19/2012 11:49 | Weather Conditions: Sunny 73 °F

Static Depth (Depth to Water)	12.63	(Ft)	Volume	4.35 (Liters)
Well Depth	20.15	(Ft)	3 Volumes	13.06 (Liters)
Water Column Height	7.52	(Ft)	Volume Purged	8.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
11:54	6.14	399.0	15.7	0.73	1
11:55	6.00	396.0	14.0	23.10	3
11:56	6.00	419.0	13.9	83.00	5
11:57	6.15	522.0	14.1	361.00	7
11:57		Purged Dry			8

SAMPLING DATA

Date: 4/19/2012 | Time: 12:10

Method: Teflon Bailer | Sampling Depth: 13.83'

pH: 6.11 ***(SU)*** | Conductivity: 396 ***(umhos/cm)***

Temperature: 15.1 ***(^{o} C)*** | Turbidity: 6.51 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 4/19/2012

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: MSW Landfill | Project : 1st Semi 2012 | Well #: MW-3A

Contact Person: Chris Stahl | Phone #: 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/19/2012 13:00 | Weather Conditions: Sunny 80 °F

Static Depth (Depth to Water)	60.26	(Ft)	Volume	4.26 (Liters)
Well Depth	67.62	(Ft)	3 Volumes	12.78 (Liters)
Water Column Height	7.36	(Ft)	Volume Purged	13.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
13:06	5.66	27.6	18.2	10.28	1
13:07	5.53	26.7	16.7	10.58	3
13:08	5.52	28.6	16.3	12.97	6
13:09	5.51	28.4	16.1	13.42	9
13:10	5.50	28.3	16.0	12.75	12
13:11		Finished Purging			13

SAMPLING DATA

Date: 4/19/2012 | Time: 13:15

Method: Teflon Bailer | Sampling Depth: 60.27'

pH: 5.56 / Dup 5.58 ***(SU)*** | Conductivity: 28.2 / Dup 27.8 ***(umhos/cm)***

Temperature: 17.3 / Dup 17.2 ***(^{o} C)*** | Turbidity: 4.85 / Dup 3.94 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 4/19/2012

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: MSW Landfill | Project : 1st Semi 2012 | Well #: MW-5

Contact Person: Chris Stahl | Phone #: 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked		x	Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/19/2012 13:43 | Weather Conditions: - - °F

Static Depth (Depth to Water)	55.07 (Ft)	Volume	- (Liters)
Well Depth	55.20 (Ft)	3 Volumes	- (Liters)
Water Column Height	- (Ft)	Volume Purged	- (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)

SAMPLING DATA

Date: - | Time: -

Method: - | Sampling Depth: -

pH: - ***(SU)*** | Conductivity: - ***(umhos/cm)***

Temperature: - ***(^{o} C)*** | Turbidity: - ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: - | Odor: -

Comments: No Samp

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 4/19/2012

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: MSW Landfill | Project : 1st Semi 2012 | Well #: MW-5D

Contact Person: Chris Stahl | Phone #: 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4.19-2012 13:28 | Weather Conditions: Sunny 80 °F

Static Depth (Depth to Water)	59.90	(Ft)	Volume	5.74 (Liters)
Well Depth	69.82	(Ft)	3 Volumes	17.23 (Liters)
Water Column Height	9.92	(Ft)	Volume Purged	18.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
13:32	5.77	73.9	20.9	7.93	1
13:33	5.79	77.8	20.3	29.30	3
13:34	5.78	72.0	19.8	37.10	6
13:35	5.71	67.8	20.3	34.30	9
13:36	5.73	66.3	20.4	34.30	12
13:37	5.71	69.2	20.0	35.20	15
13:38		Finished Purging			18

SAMPLING DATA

Date: 4/19/2012 | Time: 13:45

Method: Teflon Bailer | Sampling Depth: 60.10'

pH: 5.73 ***(SU)*** | Conductivity: 66.4 ***(umhos/cm)***

Temperature: 20.7 ***(^{o} C)*** | Turbidity: 28.8 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 4/19/2012

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: MSW Landfill | Project : 1st Semi 2012 | Well #: MW-10

Contact Person: Chris Stahl | Phone #: 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/19/2012 14:43 | Weather Conditions: Sunny 80 °F

Static Depth (Depth to Water)	57.28	(Ft)	Volume	5.97 (Liters)
Well Depth	67.60	(Ft)	3 Volumes	17.92 (Liters)
Water Column Height	10.32	(Ft)	Volume Purged	8.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
14:50	5.58	127.0	16.6	124.00	1
14:52	5.62	132.5	15.1	>800	4
14:55	5.98	149.2	14.7	>800	8
14:55		Purged Dry			8

SAMPLING DATA

Date: 4/19/2012 | Time: 15:15

Method: Teflon Bailer | Sampling Depth: 59.11'

pH: 5.62 ***(SU)*** | Conductivity: 126.2 ***(umhos/cm)***

Temperature: 16.4 ***(^{o} C)*** | Turbidity: 572 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Muddy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 4/19/2012

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: MSW Landfill | Project : 1st Semi 2012 | Well #: MW-14

Contact Person: Chris Stahl | Phone #: 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/19/2012 15:53 | Weather Conditions: Sunny 80 °F

Static Depth (Depth to Water)	34.51	(Ft)	Volume	4.66 (Liters)
Well Depth	42.57	(Ft)	3 Volumes	14.00 (Liters)
Water Column Height	8.06	(Ft)	Volume Purged	5.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
15:56	5.06	28.4	15.5	>800	1
15:58	5.18	29.1	14.7	>800	3
16:00	5.16	29.7	14.4	>800	5
16:00		Purged Dry			5

SAMPLING DATA

Date: 4/19/2012 | Time: 16:15

Method: Teflon Bailer | Sampling Depth: 38.50'

pH: 5.50 ***(SU)*** | Conductivity: 27.3 ***(umhos/cm)***

Temperature: 16.4 ***(^{o} C)*** | Turbidity: 41.1 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 4/19/2012

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: MSW Landfill | Project : 1st Semi 2012 | Well #: MW-15

Contact Person: Chris Stahl | Phone #: 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/19/2012 15:35 | Weather Conditions: Sunny 80 °F

Static Depth (Depth to Water)	12.81	(Ft)	Volume	2.98 (Liters)
Well Depth	17.97	(Ft)	3 Volumes	8.96 (Liters)
Water Column Height	5.16	(Ft)	Volume Purged	9.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
15:38	4.94	51.4	14.7	15.19	1
15:39	4.79	60.9	13.6	>800	3
15:41	4.74	62.5	13.3	>800	5
15:42	4.73	66.4	13.1	>800	7
15:43	4.70	67.3	13.0	>800	9
15:43		Finished Purging			9

SAMPLING DATA

Date: 4/19/2012 | Time: 15:45

Method: Teflon Bailer | Sampling Depth: 13.61'

pH: 4.75 ***(SU)*** | Conductivity: 67.5 ***(umhos/cm)***

Temperature: 13.1 ***(^{o} C)*** | Turbidity: >800 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Muddy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 4/19/2012

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: MSW Landfill | Project : 1st Semi 2012 | Well #: MW-17

Contact Person: Chris Stahl | Phone #: 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/19/2012 14:00 | Weather Conditions: Sunny 80 °F

Static Depth (Depth to Water)	69.78 (Ft)	Volume	7.82	(Liters)
Well Depth	83.30 (Ft)	3 Volumes	23.48	(Liters)
Water Column Height	13.52 (Ft)	Volume Purged	24.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
14:03	5.18	75.3	16.9	7.96	1
14:05	5.04	78.2	15.6	224.00	5
14:08	5.02	72.2.	15.6	179.00	10
14:10	5.03	71.6	15.5	213.00	15
14:13	5.00	71.4	15.4	214.00	20
14:15		Finished Purging			24

SAMPLING DATA

Date: 4/19/2012 | Time: 14:17

Method: Teflon Bailer | Sampling Depth: 74.41'

pH: 5.03 ***(SU)*** | Conductivity: 69.8 ***(umhos/cm)***

Temperature: 16.1 ***(^{o} C)*** | Turbidity: 134 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 4/19/2012

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: MSW Landfill | Project : 1st Semi 2012 | Well #: MW-18

Contact Person: Chris Stahl | Phone #: 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/19/2012 14:22 | Weather Conditions: Sunny 80 °F

Static Depth (Depth to Water)	51.47	(Ft)	Volume	6.14 (Liters)
Well Depth	62.08	(Ft)	3 Volumes	18.42 (Liters)
Water Column Height	10.61	(Ft)	Volume Purged	19.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
14:26	5.80	56.9	15.9	4.63	1
14:28	5.94	53.5	15.3	87.10	4
14:30	5.93	44.9	15.1	94.00	8
14:32	5.94	49.8	15.1	112.00	12
14:34	5.94	50.2	15.0	86.20	16
14:36		Finished Purging			19

SAMPLING DATA

Date: 4/19/2012 | Time: 14:38

Method: Teflon Bailer | Sampling Depth: 56.72'

pH: 5.94 ***(SU)*** | Conductivity: 50.9 ***(umhos/cm)***

Temperature: 15.3 ***(^{o} C)*** | Turbidity: 69.7 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 4/19/2012

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: MSW Landfill | Project : 1st Semi 2012 | Well #: MW-19

Contact Person: Chris Stahl | Phone #: 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/19/2012 08:12 | Weather Conditions: Cloudy 60 °F

Static Depth (Depth to Water)	20.40	(Ft)	Volume	3.12 (Liters)
Well Depth	25.80	(Ft)	3 Volumes	9.37 (Liters)
Water Column Height	5.40	(Ft)	Volume Purged	10.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
08:27	5.25	44.4	14.3	6.71	1
08:28	5.13	44.9	14.0	>800	3
08:29	5.15	44.3	13.9	>800	5
08:30	5.12	43.6	13.9	>800	7
08:32	5.15	43.2	13.9	>800	9
08:32		Finished Purging			10

SAMPLING DATA

Date: 4/19/2012 | Time: 08:35

Method: Teflon Bailer | Sampling Depth: 20.90'

pH: 5.17 ***(SU)*** | Conductivity: 43.4 ***(umhos/cm)***

Temperature: 14.0 ***(^{o} C)*** | Turbidity: >800 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 4/19/2012

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: MSW Landfill | Project : 1st Semi 2012 | Well #: MW-19A

Contact Person: Chris Stahl | Phone #: 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/19/2012 08:10 | Weather Conditions: Cloudy 60 °F

Static Depth (Depth to Water)	19.85	(Ft)	Volume	21.56 (Liters)
Well Depth	57.09	(Ft)	3 Volumes	64.68 (Liters)
Water Column Height	37.24	(Ft)	Volume Purged	23.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
08:15	6.88	63.8	14.3	5.21	1
08:18	6.53	62.6	14.4	15.02	10
08:22	6.32	63.0	14.4	11.20	20
08:23		Purged Dry			23

SAMPLING DATA

Date: 4/19/2012 | Time: 11:37

Method: Teflon Bailer | Sampling Depth: 51.38'

pH: 6.45 ***(SU)*** | Conductivity: 62.1 ***(umhos/cm)***

Temperature: 15.9 ***(^{o} C)*** | Turbidity: 28.4 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 4/19/2012

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: MSW Landfill | Project : 1st Semi 2012 | Well #: MW-20

Contact Person: Chris Stahl | Phone #: 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/19/2012 08:48 | Weather Conditions: Cloudy 64 °F

Static Depth (Depth to Water)	10.02	(Ft)	Volume	7.53 (Liters)
Well Depth	23.03	(Ft)		22.59 (Liters)
Water Column Height	13.01	(Ft)	Volume Purged	23.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
08:51	5.13	60.6	12.3	34.90	1
08:53	5.04	62.0	11.3	236.00	4
08:54	5.10	88.1	11.1	64.80	8
08:55	5.16	66.7	10.9	57.60	12
08:57	5.17	66.0	10.9	57.20	16
08:58	5.16	68.5	10.9	48.20	20
08:59		Finished Purging			23

SAMPLING DATA

Date: 4/19/2012 | Time: 09:01

Method: Teflon Bailer | Sampling Depth: 11.00'

pH: 5.22 ***(SU)*** | Conductivity: 74.6 ***(umhos/cm)***

Temperature: 11.1 ***(^{o} C)*** | Turbidity: 30.1 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 4/19/2012

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: MSW Landfill | Project : 1st Semi 2012 | Well #: MW-21

Contact Person: Chris Stahl | Phone #: 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/19/2012 09:08 | Weather Conditions: Cloudy 64 °F

Static Depth (Depth to Water)	14.26	(Ft)	Volume	7.33 (Liters)
Well Depth	26.93	(Ft)	3 Volumes	22.00 (Liters)
Water Column Height	12.67	(Ft)	Volume Purged	22.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
09:11	5.31	41.3	13.0	6.23	1
09:12	5.24	39.4	12.6	82.90	4
09:13	5.36	35.2	12.5	94.60	8
09:14	5.28	38.7	12.5	29.70	12
09:15	5.29	34.1	12.7	34.50	16
09:16	5.29	36.7	12.8	33.80	20
09:17		Finished Purging			22

SAMPLING DATA

Date: 4/19/2012 | Time: 09:20

Method: Teflon Bailer | Sampling Depth: 18.66'

pH: 5.35 ***(SU)*** | Conductivity: 39.3 ***(umhos/cm)***

Temperature: 13.2 ***(^{o} C)*** | Turbidity: 36.2 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 4/19/2012

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: MSW Landfill | Project : 1st Semi 2012 | Well #: MW-22

Contact Person: Chris Stahl | Phone #: 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/19/2012 09:33 | Weather Conditions: Cloudy 65 °F

Static Depth (Depth to Water)	14.64	(Ft)	Volume	6.05 (Liters)
Well Depth	25.10	(Ft)	3 Volumes	18.16 (Liters)
Water Column Height	10.46	(Ft)	Volume Purged	19.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
09:46	5.83	113.9	13.6	18.30	1
09:47	5.76	105.8	13.3	701.00	4
09:48	5.71	105.9	13.2	>800	8
09:49	5.70	114.4	13.3	>800	12
09:50	5.70	117.7	13.4	>800	16
09:51		Finished Purging			19

SAMPLING DATA

Date: 4/19/2012 | Time: 09:54

Method: Teflon Bailer | Sampling Depth: 16.06'

pH: 5.67 ***(SU)*** | Conductivity: 129.2 ***(umhos/cm)***

Temperature: 13.7 ***(^{o} C)*** | Turbidity: >800 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Muddy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 4/19/2012

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: MSW Landfill | Project : 1st Semi 2012 | Well #: MW-22A

Contact Person: Chris Stahl | Phone #: 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/19/2012 09:29 | Weather Conditions: Cloudy 65 °F

Static Depth (Depth to Water)	11.66	(Ft)	Volume	17.74 (Liters)
Well Depth	42.30	(Ft)	3 Volumes	53.22 (Liters)
Water Column Height	30.64	(Ft)	Volume Purged	32.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
09:32	6.40	265.0	13.3	3.29	1
09:35	7.09	268.0	13.8	14.94	10
09:38	6.84	424.0	14.3	24.70	20
09:41	6.79	457.0	14.4	349.00	30
09:42		Purged Dry			32

SAMPLING DATA

Date: 4/19/2012 | Time: 09:58

Method: Teflon Bailer | Sampling Depth: 30.39'

pH: 6.59 ***(SU)*** | Conductivity: 428 ***(umhos/cm)***

Temperature: 14.3 ***(^{o} C)*** | Turbidity: 33.5 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 4/19/2012

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: MSW Landfill | Project : 1st Semi 2012 | Well #: MW-23

Contact Person: Chris Stahl | Phone #: 828-349-2100

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked		x	Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 4/19/2012 10:06 | Weather Conditions: Cloudy 65 °F

Static Depth (Depth to Water)	5.13	(Ft)	Volume	14.94 (Liters)
Well Depth	30.95	(Ft)	3 Volumes	44.84 (Liters)
Water Column Height	25.82	(Ft)	Volume Purged	45.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
10:11	5.91	265.0	14.1	4.17	1
10:13	5.94	265.0	13.1	15.04	8
10:15	5.93	264.0	13.7	366.00	16
10:18	5.96	266.0	13.8	403.00	24
10:21	5.94	264.0	14.1	330.00	32
10:24	5.96	265.0	13.9	267.00	40
10:26		Finished Purging			45

SAMPLING DATA

Date: 4/19/2012 | Time: 10:35

Method: Teflon Bailer | Sampling Depth: 8.35'

pH: 5.93 ***(SU)*** | Conductivity: 262 ***(umhos/cm)***

Temperature: 14.6 ***(^{o} C)*** | Turbidity: 41.9 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 4/19/2012

Surface Water Sampling Log

REI Consultants, Inc.

Project Name:	MSW Landfill		
Contact Person:	Chris Stahl	Phone/Fax:	828-349-2100

Outlet:	SW-1			
Date:	4/19/2012	Time:	12:05	
pH:	6.64	Conductivity:	70.7	***umhos/cm***
Flow:	N/A	Temperature:	16.7	***°C***
Sample Odor and Physical Appearance:	Clear	/	No Odor	
Comments:	Turbidity =	9.76	NTU	

Outlet:	SW-2			
Date:	4/19/2012	Time:	08:30	
pH:	5.83	Conductivity:	30.7	***umhos/cm***
Flow:	N/A	Temperature:	14.4	***°C***
Sample Odor and Physical Appearance:	Clear	/	No Odor	
Comments:	Turbidity =	13.14	NTU	

Outlet:	SW-3			
Date:	4/19/2012	Time:	16:35	
pH:	6.53	Conductivity:	46.9	***umhos/cm***
Flow:	N/A	Temperature:	18.0	***°C***
Sample Odor and Physical Appearance:		/		
Comments:	Turbidity =	35.60	NTU	

Surface Water Sampling Log

REI Consultants, Inc.

Project Name:	MSW Landfill		
Contact Person:	Chris Stahl	Phone/Fax:	828-349-2100

Outlet:	SW-4		
Date:	4/19/2012	Time:	16:00
pH:	6.48	Conductivity:	46.4 *umhos/cm*
Flow:	N/A	Temperature:	19.9 *°C*
Sample Odor and Physical Appearance:	Clear / No Odor		
Comments:	Turbidity = 23.20 NTU		

Outlet:	Leachate		
Date:	4/19/2012	Time:	11:45
pH:	8.90	Conductivity:	7230 *umhos/cm*
Flow:	N/A	Temperature:	19.9 *°C*
Sample Odor and Physical Appearance:	Cloudy /		
Comments:	Turbidity = NTU		

Outlet:			
Date:		Time:	
pH:		Conductivity:	*umhos/cm*
Flow:		Temperature:	*°C*
Sample Odor and Physical Appearance:	/		
Comments:	Turbidity = NTU		

Macon County Municipal Solid Waste (MSW) Landfill

Macon County, North Carolina

Permit Number: 57-03

Appendix C:

Laboratory Results and Chain-of-Custody Record

Macon County Municipal Solid Waste (MSW) Landfill

Macon County, North Carolina

Permit Number: 57-03

MSW Landfill
Laboratory Results
and
Chain-of-Custody Record

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572

3029-C Peters Creek Road
Roanoke, VA 24019
TEL: 540.777.1276
FAX: 540.400.8508

101 17th Street
Ashland, KY 41101
TEL: 606.393.5027

1557 Commerce Road, Suite 201
Verona, VA 24482
TEL: 540.248.0183

Improving the environment, one client at a time...

May 01, 2012

Mr. Chris Stahl
MACON COUNTY SOLID WASTE MANAGEMENT
5 WEST MAIN ST
FRANKLIN NC 28734

TEL: (828) 349-2100
FAX (828) 349-2185

RE: 1ST SEMI 2012

Order No.: 1204J43

Dear Mr. Chris Stahl:

REI Consultants, Inc. received 26 sample(s) on 4/20/2012 for the analyses presented in the following report.

Please note two changes you may see on your report.

- Results for "Dissolved" parameters will be shown under a separate sample ID, rather than as a separate analysis under the same sample ID. The sample ID for "Dissolved" parameters will include "Field Filtered" or "Lab Filtered", as appropriate.
- Metals results will no longer be identified as "Total" or "Total Recoverable". The methods have not been changed, only their appearance on the report.

If you have any questions regarding these results, please do not hesitate to call.

Sincerely,

Michelle Ellison

Michelle Ellison

ACCREDITED IN ACCORDANCE WITH nelac

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-01A
Client Sample ID:	MW-1A	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 10:57:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/23/2012 10:58:00 PM
Arsenic	ND	mg/L		0.00100	0.0100	4/23/2012 10:58:00 PM
Barium	0.0536	mg/L	J	0.00100	0.100	4/23/2012 10:58:00 PM
Beryllium	ND	mg/L		0.00020	0.0010	4/23/2012 10:58:00 PM
Cadmium	ND	mg/L		0.00020	0.0010	4/23/2012 10:58:00 PM
Chromium	ND	mg/L		0.00100	0.0100	4/23/2012 10:58:00 PM
Cobalt	0.0209	mg/L		0.00100	0.0100	4/23/2012 10:58:00 PM
Copper	0.0016	mg/L	J	0.00100	0.0100	4/23/2012 10:58:00 PM
Lead	ND	mg/L		0.00020	0.0100	4/23/2012 10:58:00 PM
Nickel	0.0029	mg/L	J	0.00200	0.0500	4/23/2012 10:58:00 PM
Selenium	ND	mg/L		0.00100	0.0100	4/23/2012 10:58:00 PM
Silver	ND	mg/L		0.00100	0.0100	4/23/2012 10:58:00 PM
Thallium	ND	mg/L		0.00020	0.0055	4/23/2012 10:58:00 PM
Vanadium	ND	mg/L		0.00100	0.0250	4/23/2012 10:58:00 PM
Zinc	0.0048	mg/L	J	0.00300	0.0100	4/23/2012 10:58:00 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/25/2012 3:46:00 AM
Acrylonitrile	ND	µg/L		4.24	200	4/25/2012 3:46:00 AM
Benzene	0.5	µg/L	J	0.13	1.0	4/25/2012 3:46:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	4/25/2012 3:46:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/25/2012 3:46:00 AM
Bromoform	ND	µg/L		0.40	3.0	4/25/2012 3:46:00 AM
Bromomethane	ND	µg/L		0.50	10	4/25/2012 3:46:00 AM
2-Butanone	ND	µg/L		4.68	100	4/25/2012 3:46:00 AM
Carbon disulfide	ND	µg/L		1.27	100	4/25/2012 3:46:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/25/2012 3:46:00 AM
Chlorobenzene	2.6	µg/L	J	0.18	3.0	4/25/2012 3:46:00 AM
Chloroethane	ND	µg/L		0.94	10	4/25/2012 3:46:00 AM
Chloroform	ND	µg/L		0.25	5.0	4/25/2012 3:46:00 AM
Chloromethane	ND	µg/L		0.33	1.0	4/25/2012 3:46:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/25/2012 3:46:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/25/2012 3:46:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/25/2012 3:46:00 AM
Dibromomethane	ND	µg/L		0.29	10	4/25/2012 3:46:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/25/2012 3:46:00 AM
1,4-Dichlorobenzene	3.0	µg/L		0.29	1.0	4/25/2012 3:46:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-01A
Client Sample ID:	MW-1A	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 10:57:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/25/2012 3:46:00 AM
1,1-Dichloroethane	1.1	µg/L	J	0.38	5.0	4/25/2012 3:46:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/25/2012 3:46:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/25/2012 3:46:00 AM
cis-1,2-Dichloroethene	0.5	µg/L	J	0.23	5.0	4/25/2012 3:46:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/25/2012 3:46:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/25/2012 3:46:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 3:46:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 3:46:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	4/25/2012 3:46:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	4/25/2012 3:46:00 AM
Iodomethane	ND	µg/L		3.44	10	4/25/2012 3:46:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	4/25/2012 3:46:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/25/2012 3:46:00 AM
Styrene	ND	µg/L		0.24	1.0	4/25/2012 3:46:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/25/2012 3:46:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/25/2012 3:46:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/25/2012 3:46:00 AM
Toluene	ND	µg/L		0.17	1.0	4/25/2012 3:46:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/25/2012 3:46:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/25/2012 3:46:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	4/25/2012 3:46:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/25/2012 3:46:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/25/2012 3:46:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	4/25/2012 3:46:00 AM
Vinyl chloride	0.4	µg/L	J	0.22	1.0	4/25/2012 3:46:00 AM
o-Xylene	ND	µg/L		0.19	1.0	4/25/2012 3:46:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	4/25/2012 3:46:00 AM
Surr: 1,2-Dichloroethane-d4	97.0	%REC			80-120	4/25/2012 3:46:00 AM
Surr: 4-Bromofluorobenzene	104	%REC			86-115	4/25/2012 3:46:00 AM
Surr: Dibromofluoromethane	103	%REC			80-120	4/25/2012 3:46:00 AM
Surr: Toluene-d8	99.8	%REC			88-110	4/25/2012 3:46:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	ND	mg/L		2.5	5	4/21/2012 12:45:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-02A
Client Sample ID:	MW-1B	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 11:17:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/23/2012 11:15:00 PM
Arsenic	ND	mg/L		0.00100	0.0100	4/23/2012 11:15:00 PM
Barium	0.0587	mg/L	J	0.00100	0.100	4/23/2012 11:15:00 PM
Beryllium	ND	mg/L		0.00020	0.0010	4/23/2012 11:15:00 PM
Cadmium	ND	mg/L		0.00020	0.0010	4/23/2012 11:15:00 PM
Chromium	ND	mg/L		0.00100	0.0100	4/23/2012 11:15:00 PM
Cobalt	0.0078	mg/L	J	0.00100	0.0100	4/23/2012 11:15:00 PM
Copper	0.0019	mg/L	J	0.00100	0.0100	4/23/2012 11:15:00 PM
Lead	ND	mg/L		0.00020	0.0100	4/23/2012 11:15:00 PM
Nickel	ND	mg/L		0.00200	0.0500	4/23/2012 11:15:00 PM
Selenium	ND	mg/L		0.00100	0.0100	4/23/2012 11:15:00 PM
Silver	ND	mg/L		0.00100	0.0100	4/23/2012 11:15:00 PM
Thallium	ND	mg/L		0.00020	0.0055	4/23/2012 11:15:00 PM
Vanadium	ND	mg/L		0.00100	0.0250	4/23/2012 11:15:00 PM
Zinc	0.0045	mg/L	J	0.00300	0.0100	4/23/2012 11:15:00 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/25/2012 4:21:00 AM
Acrylonitrile	ND	µg/L		4.24	200	4/25/2012 4:21:00 AM
Benzene	0.4	µg/L	J	0.13	1.0	4/25/2012 4:21:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	4/25/2012 4:21:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/25/2012 4:21:00 AM
Bromoform	ND	µg/L		0.40	3.0	4/25/2012 4:21:00 AM
Bromomethane	ND	µg/L		0.50	10	4/25/2012 4:21:00 AM
2-Butanone	ND	µg/L		4.68	100	4/25/2012 4:21:00 AM
Carbon disulfide	ND	µg/L		1.27	100	4/25/2012 4:21:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/25/2012 4:21:00 AM
Chlorobenzene	2.2	µg/L	J	0.18	3.0	4/25/2012 4:21:00 AM
Chloroethane	ND	µg/L		0.94	10	4/25/2012 4:21:00 AM
Chloroform	ND	µg/L		0.25	5.0	4/25/2012 4:21:00 AM
Chloromethane	ND	µg/L		0.33	1.0	4/25/2012 4:21:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/25/2012 4:21:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/25/2012 4:21:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/25/2012 4:21:00 AM
Dibromomethane	ND	µg/L		0.29	10	4/25/2012 4:21:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/25/2012 4:21:00 AM
1,4-Dichlorobenzene	2.7	µg/L		0.29	1.0	4/25/2012 4:21:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-02A
Client Sample ID:	MW-1B	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 11:17:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/25/2012 4:21:00 AM
1,1-Dichloroethane	0.8	µg/L	J	0.38	5.0	4/25/2012 4:21:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/25/2012 4:21:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/25/2012 4:21:00 AM
cis-1,2-Dichloroethene	0.4	µg/L	J	0.23	5.0	4/25/2012 4:21:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/25/2012 4:21:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/25/2012 4:21:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 4:21:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 4:21:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	4/25/2012 4:21:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	4/25/2012 4:21:00 AM
Iodomethane	ND	µg/L		3.44	10	4/25/2012 4:21:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	4/25/2012 4:21:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/25/2012 4:21:00 AM
Styrene	ND	µg/L		0.24	1.0	4/25/2012 4:21:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/25/2012 4:21:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/25/2012 4:21:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/25/2012 4:21:00 AM
Toluene	ND	µg/L		0.17	1.0	4/25/2012 4:21:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/25/2012 4:21:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/25/2012 4:21:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	4/25/2012 4:21:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/25/2012 4:21:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/25/2012 4:21:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	4/25/2012 4:21:00 AM
Vinyl chloride	0.3	µg/L	J	0.22	1.0	4/25/2012 4:21:00 AM
o-Xylene	ND	µg/L		0.19	1.0	4/25/2012 4:21:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	4/25/2012 4:21:00 AM
Surr: 1,2-Dichloroethane-d4	94.3	%REC			80-120	4/25/2012 4:21:00 AM
Surr: 4-Bromofluorobenzene	106	%REC			86-115	4/25/2012 4:21:00 AM
Surr: Dibromofluoromethane	98.6	%REC			80-120	4/25/2012 4:21:00 AM
Surr: Toluene-d8	102	%REC			88-110	4/25/2012 4:21:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	2	mg/L	J	2.5	5	4/21/2012 12:45:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-03A
Client Sample ID:	MW-1D	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 11:25:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/23/2012 11:20:00 PM
Arsenic	ND	mg/L		0.00100	0.0100	4/23/2012 11:20:00 PM
Barium	0.0982	mg/L	J	0.00100	0.100	4/23/2012 11:20:00 PM
Beryllium	ND	mg/L		0.00020	0.0010	4/23/2012 11:20:00 PM
Cadmium	0.0007	mg/L	J	0.00020	0.0010	4/23/2012 11:20:00 PM
Chromium	0.0011	mg/L	J	0.00100	0.0100	4/23/2012 11:20:00 PM
Cobalt	0.0054	mg/L	J	0.00100	0.0100	4/23/2012 11:20:00 PM
Copper	0.0050	mg/L	J	0.00100	0.0100	4/23/2012 11:20:00 PM
Lead	0.0005	mg/L	J	0.00020	0.0100	4/23/2012 11:20:00 PM
Nickel	0.0053	mg/L	J	0.00200	0.0500	4/23/2012 11:20:00 PM
Selenium	ND	mg/L		0.00100	0.0100	4/23/2012 11:20:00 PM
Silver	ND	mg/L		0.00100	0.0100	4/23/2012 11:20:00 PM
Thallium	ND	mg/L		0.00020	0.0055	4/23/2012 11:20:00 PM
Vanadium	0.0049	mg/L	J	0.00100	0.0250	4/23/2012 11:20:00 PM
Zinc	0.0237	mg/L		0.00300	0.0100	4/23/2012 11:20:00 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/25/2012 4:56:00 AM
Acrylonitrile	ND	µg/L		4.24	200	4/25/2012 4:56:00 AM
Benzene	0.9	µg/L	J	0.13	1.0	4/25/2012 4:56:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	4/25/2012 4:56:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/25/2012 4:56:00 AM
Bromoform	ND	µg/L		0.40	3.0	4/25/2012 4:56:00 AM
Bromomethane	ND	µg/L		0.50	10	4/25/2012 4:56:00 AM
2-Butanone	ND	µg/L		4.68	100	4/25/2012 4:56:00 AM
Carbon disulfide	ND	µg/L		1.27	100	4/25/2012 4:56:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/25/2012 4:56:00 AM
Chlorobenzene	2.9	µg/L	J	0.18	3.0	4/25/2012 4:56:00 AM
Chloroethane	ND	µg/L		0.94	10	4/25/2012 4:56:00 AM
Chloroform	ND	µg/L		0.25	5.0	4/25/2012 4:56:00 AM
Chloromethane	ND	µg/L		0.33	1.0	4/25/2012 4:56:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/25/2012 4:56:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/25/2012 4:56:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/25/2012 4:56:00 AM
Dibromomethane	ND	µg/L		0.29	10	4/25/2012 4:56:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/25/2012 4:56:00 AM
1,4-Dichlorobenzene	3.4	µg/L		0.29	1.0	4/25/2012 4:56:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-03A
Client Sample ID:	MW-1D	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 11:25:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/25/2012 4:56:00 AM
1,1-Dichloroethane	1.7	µg/L	J	0.38	5.0	4/25/2012 4:56:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/25/2012 4:56:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/25/2012 4:56:00 AM
cis-1,2-Dichloroethene	0.7	µg/L	J	0.23	5.0	4/25/2012 4:56:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/25/2012 4:56:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/25/2012 4:56:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 4:56:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 4:56:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	4/25/2012 4:56:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	4/25/2012 4:56:00 AM
Iodomethane	ND	µg/L		3.44	10	4/25/2012 4:56:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	4/25/2012 4:56:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/25/2012 4:56:00 AM
Styrene	ND	µg/L		0.24	1.0	4/25/2012 4:56:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/25/2012 4:56:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/25/2012 4:56:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/25/2012 4:56:00 AM
Toluene	ND	µg/L		0.17	1.0	4/25/2012 4:56:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/25/2012 4:56:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/25/2012 4:56:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	4/25/2012 4:56:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/25/2012 4:56:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/25/2012 4:56:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	4/25/2012 4:56:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	4/25/2012 4:56:00 AM
o-Xylene	ND	µg/L		0.19	1.0	4/25/2012 4:56:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	4/25/2012 4:56:00 AM
Surr: 1,2-Dichloroethane-d4	97.2	%REC			80-120	4/25/2012 4:56:00 AM
Surr: 4-Bromofluorobenzene	106	%REC			86-115	4/25/2012 4:56:00 AM
Surr: Dibromofluoromethane	101	%REC			80-120	4/25/2012 4:56:00 AM
Surr: Toluene-d8	102	%REC			88-110	4/25/2012 4:56:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	29	mg/L		2.5	5	4/21/2012 12:45:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-04A
Client Sample ID:	MW-2	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 12:10:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/23/2012 11:25:00 PM
Arsenic	0.0035	mg/L	J	0.00100	0.0100	4/23/2012 11:25:00 PM
Barium	0.0966	mg/L	J	0.00100	0.100	4/23/2012 11:25:00 PM
Beryllium	ND	mg/L		0.00020	0.0010	4/23/2012 11:25:00 PM
Cadmium	ND	mg/L		0.00020	0.0010	4/23/2012 11:25:00 PM
Chromium	ND	mg/L		0.00100	0.0100	4/23/2012 11:25:00 PM
Cobalt	0.0279	mg/L		0.00100	0.0100	4/23/2012 11:25:00 PM
Copper	0.0017	mg/L	J	0.00100	0.0100	4/23/2012 11:25:00 PM
Lead	0.0004	mg/L	J	0.00020	0.0100	4/23/2012 11:25:00 PM
Nickel	ND	mg/L		0.00200	0.0500	4/23/2012 11:25:00 PM
Selenium	ND	mg/L		0.00100	0.0100	4/23/2012 11:25:00 PM
Silver	ND	mg/L		0.00100	0.0100	4/23/2012 11:25:00 PM
Thallium	ND	mg/L		0.00020	0.0055	4/23/2012 11:25:00 PM
Vanadium	0.0011	mg/L	J	0.00100	0.0250	4/23/2012 11:25:00 PM
Zinc	0.0048	mg/L	J	0.00300	0.0100	4/23/2012 11:25:00 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/25/2012 5:31:00 AM
Acrylonitrile	ND	µg/L		4.24	200	4/25/2012 5:31:00 AM
Benzene	ND	µg/L		0.13	1.0	4/25/2012 5:31:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	4/25/2012 5:31:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/25/2012 5:31:00 AM
Bromoform	ND	µg/L		0.40	3.0	4/25/2012 5:31:00 AM
Bromomethane	ND	µg/L		0.50	10	4/25/2012 5:31:00 AM
2-Butanone	ND	µg/L		4.68	100	4/25/2012 5:31:00 AM
Carbon disulfide	ND	µg/L		1.27	100	4/25/2012 5:31:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/25/2012 5:31:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	4/25/2012 5:31:00 AM
Chloroethane	ND	µg/L		0.94	10	4/25/2012 5:31:00 AM
Chloroform	ND	µg/L		0.25	5.0	4/25/2012 5:31:00 AM
Chloromethane	ND	µg/L		0.33	1.0	4/25/2012 5:31:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/25/2012 5:31:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/25/2012 5:31:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/25/2012 5:31:00 AM
Dibromomethane	ND	µg/L		0.29	10	4/25/2012 5:31:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/25/2012 5:31:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/25/2012 5:31:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-04A
Client Sample ID:	MW-2	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 12:10:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/25/2012 5:31:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/25/2012 5:31:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/25/2012 5:31:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/25/2012 5:31:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/25/2012 5:31:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/25/2012 5:31:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/25/2012 5:31:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 5:31:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 5:31:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	4/25/2012 5:31:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	4/25/2012 5:31:00 AM
Iodomethane	ND	µg/L		3.44	10	4/25/2012 5:31:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	4/25/2012 5:31:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/25/2012 5:31:00 AM
Styrene	ND	µg/L		0.24	1.0	4/25/2012 5:31:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/25/2012 5:31:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/25/2012 5:31:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/25/2012 5:31:00 AM
Toluene	ND	µg/L		0.17	1.0	4/25/2012 5:31:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/25/2012 5:31:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/25/2012 5:31:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	4/25/2012 5:31:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/25/2012 5:31:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/25/2012 5:31:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	4/25/2012 5:31:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	4/25/2012 5:31:00 AM
o-Xylene	ND	µg/L		0.19	1.0	4/25/2012 5:31:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	4/25/2012 5:31:00 AM
Surr: 1,2-Dichloroethane-d4	97.3	%REC			80-120	4/25/2012 5:31:00 AM
Surr: 4-Bromofluorobenzene	103	%REC			86-115	4/25/2012 5:31:00 AM
Surr: Dibromofluoromethane	101	%REC			80-120	4/25/2012 5:31:00 AM
Surr: Toluene-d8	101	%REC			88-110	4/25/2012 5:31:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	35	mg/L		5.0	10	4/21/2012 12:45:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-05A
Client Sample ID:	MW-3A	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 1:15:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/23/2012 11:31:00 PM
Arsenic	ND	mg/L		0.00100	0.0100	4/23/2012 11:31:00 PM
Barium	0.0494	mg/L	J	0.00100	0.100	4/23/2012 11:31:00 PM
Beryllium	ND	mg/L		0.00020	0.0010	4/23/2012 11:31:00 PM
Cadmium	ND	mg/L		0.00020	0.0010	4/23/2012 11:31:00 PM
Chromium	ND	mg/L		0.00100	0.0100	4/23/2012 11:31:00 PM
Cobalt	0.0010	mg/L	J	0.00100	0.0100	4/23/2012 11:31:00 PM
Copper	0.0024	mg/L	J	0.00100	0.0100	4/23/2012 11:31:00 PM
Lead	ND	mg/L		0.00020	0.0100	4/23/2012 11:31:00 PM
Nickel	ND	mg/L		0.00200	0.0500	4/23/2012 11:31:00 PM
Selenium	ND	mg/L		0.00100	0.0100	4/23/2012 11:31:00 PM
Silver	ND	mg/L		0.00100	0.0100	4/23/2012 11:31:00 PM
Thallium	ND	mg/L		0.00020	0.0055	4/23/2012 11:31:00 PM
Vanadium	ND	mg/L		0.00100	0.0250	4/23/2012 11:31:00 PM
Zinc	0.0048	mg/L	J	0.00300	0.0100	4/23/2012 11:31:00 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/25/2012 6:06:00 AM
Acrylonitrile	ND	µg/L		4.24	200	4/25/2012 6:06:00 AM
Benzene	ND	µg/L		0.13	1.0	4/25/2012 6:06:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	4/25/2012 6:06:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/25/2012 6:06:00 AM
Bromoform	ND	µg/L		0.40	3.0	4/25/2012 6:06:00 AM
Bromomethane	ND	µg/L		0.50	10	4/25/2012 6:06:00 AM
2-Butanone	ND	µg/L		4.68	100	4/25/2012 6:06:00 AM
Carbon disulfide	ND	µg/L		1.27	100	4/25/2012 6:06:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/25/2012 6:06:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	4/25/2012 6:06:00 AM
Chloroethane	ND	µg/L		0.94	10	4/25/2012 6:06:00 AM
Chloroform	ND	µg/L		0.25	5.0	4/25/2012 6:06:00 AM
Chloromethane	ND	µg/L		0.33	1.0	4/25/2012 6:06:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/25/2012 6:06:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/25/2012 6:06:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/25/2012 6:06:00 AM
Dibromomethane	ND	µg/L		0.29	10	4/25/2012 6:06:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/25/2012 6:06:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/25/2012 6:06:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-05A
Client Sample ID:	MW-3A	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 1:15:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/25/2012 6:06:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/25/2012 6:06:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/25/2012 6:06:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/25/2012 6:06:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/25/2012 6:06:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/25/2012 6:06:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/25/2012 6:06:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 6:06:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 6:06:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	4/25/2012 6:06:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	4/25/2012 6:06:00 AM
Iodomethane	ND	µg/L		3.44	10	4/25/2012 6:06:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	4/25/2012 6:06:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/25/2012 6:06:00 AM
Styrene	ND	µg/L		0.24	1.0	4/25/2012 6:06:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/25/2012 6:06:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/25/2012 6:06:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/25/2012 6:06:00 AM
Toluene	ND	µg/L		0.17	1.0	4/25/2012 6:06:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/25/2012 6:06:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/25/2012 6:06:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	4/25/2012 6:06:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/25/2012 6:06:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/25/2012 6:06:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	4/25/2012 6:06:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	4/25/2012 6:06:00 AM
o-Xylene	ND	µg/L		0.19	1.0	4/25/2012 6:06:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	4/25/2012 6:06:00 AM
Surr: 1,2-Dichloroethane-d4	96.9	%REC			80-120	4/25/2012 6:06:00 AM
Surr: 4-Bromofluorobenzene	106	%REC			86-115	4/25/2012 6:06:00 AM
Surr: Dibromofluoromethane	104	%REC			80-120	4/25/2012 6:06:00 AM
Surr: Toluene-d8	100	%REC			88-110	4/25/2012 6:06:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	4	mg/L	J	2.5	5	4/21/2012 12:45:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-06A
Client Sample ID:	MW-5D	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 1:45:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/23/2012 11:36:00 PM
Arsenic	ND	mg/L		0.00100	0.0100	4/23/2012 11:36:00 PM
Barium	0.101	mg/L		0.00100	0.100	4/23/2012 11:36:00 PM
Beryllium	ND	mg/L		0.00020	0.0010	4/23/2012 11:36:00 PM
Cadmium	0.0003	mg/L	J	0.00020	0.0010	4/23/2012 11:36:00 PM
Chromium	0.0013	mg/L	J	0.00100	0.0100	4/23/2012 11:36:00 PM
Cobalt	0.0012	mg/L	J	0.00100	0.0100	4/23/2012 11:36:00 PM
Copper	0.0055	mg/L	J	0.00100	0.0100	4/23/2012 11:36:00 PM
Lead	0.0005	mg/L	J	0.00020	0.0100	4/23/2012 11:36:00 PM
Nickel	ND	mg/L		0.00200	0.0500	4/23/2012 11:36:00 PM
Selenium	ND	mg/L		0.00100	0.0100	4/23/2012 11:36:00 PM
Silver	ND	mg/L		0.00100	0.0100	4/23/2012 11:36:00 PM
Thallium	ND	mg/L		0.00020	0.0055	4/23/2012 11:36:00 PM
Vanadium	0.0021	mg/L	J	0.00100	0.0250	4/23/2012 11:36:00 PM
Zinc	0.0083	mg/L	J	0.00300	0.0100	4/23/2012 11:36:00 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/26/2012 4:35:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/26/2012 4:35:00 PM
Benzene	0.5	µg/L	J	0.13	1.0	4/26/2012 4:35:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/26/2012 4:35:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/26/2012 4:35:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/26/2012 4:35:00 PM
Bromomethane	ND	µg/L		0.50	10	4/26/2012 4:35:00 PM
2-Butanone	ND	µg/L		4.68	100	4/26/2012 4:35:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/26/2012 4:35:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/26/2012 4:35:00 PM
Chlorobenzene	0.3	µg/L	J	0.18	3.0	4/26/2012 4:35:00 PM
Chloroethane	ND	µg/L		0.94	10	4/26/2012 4:35:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/26/2012 4:35:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/26/2012 4:35:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/26/2012 4:35:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/26/2012 4:35:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/26/2012 4:35:00 PM
Dibromomethane	ND	µg/L		0.29	10	4/26/2012 4:35:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/26/2012 4:35:00 PM
1,4-Dichlorobenzene	0.4	µg/L	J	0.29	1.0	4/26/2012 4:35:00 PM

Key:

MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-06A
Client Sample ID:	MW-5D	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 1:45:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/26/2012 4:35:00 PM
1,1-Dichloroethane	0.6	µg/L	J	0.38	5.0	4/26/2012 4:35:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/26/2012 4:35:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/26/2012 4:35:00 PM
cis-1,2-Dichloroethene	0.7	µg/L	J	0.23	5.0	4/26/2012 4:35:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/26/2012 4:35:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/26/2012 4:35:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/26/2012 4:35:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/26/2012 4:35:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/26/2012 4:35:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/26/2012 4:35:00 PM
Iodomethane	ND	µg/L		3.44	10	4/26/2012 4:35:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/26/2012 4:35:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/26/2012 4:35:00 PM
Styrene	ND	µg/L		0.24	1.0	4/26/2012 4:35:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/26/2012 4:35:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/26/2012 4:35:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/26/2012 4:35:00 PM
Toluene	ND	µg/L		0.17	1.0	4/26/2012 4:35:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/26/2012 4:35:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/26/2012 4:35:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/26/2012 4:35:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/26/2012 4:35:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/26/2012 4:35:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/26/2012 4:35:00 PM
Vinyl chloride	0.4	µg/L	J	0.22	1.0	4/26/2012 4:35:00 PM
o-Xylene	0.7	µg/L	J	0.19	1.0	4/26/2012 4:35:00 PM
m,p-Xylene	0.4	µg/L	J	0.29	2.0	4/26/2012 4:35:00 PM
Surr: 1,2-Dichloroethane-d4	94.1	%REC			80-120	4/26/2012 4:35:00 PM
Surr: 4-Bromofluorobenzene	107	%REC			86-115	4/26/2012 4:35:00 PM
Surr: Dibromofluoromethane	102	%REC			80-120	4/26/2012 4:35:00 PM
Surr: Toluene-d8	100	%REC			88-110	4/26/2012 4:35:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	26	mg/L		2.5	5	4/21/2012 1:30:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-07A
Client Sample ID:	MW-10	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 3:15:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/23/2012 11:52:00 PM
Arsenic	ND	mg/L		0.00100	0.0100	4/23/2012 11:52:00 PM
Barium	0.394	mg/L		0.00100	0.100	4/23/2012 11:52:00 PM
Beryllium	0.0002	mg/L	J	0.00020	0.0010	4/23/2012 11:52:00 PM
Cadmium	ND	mg/L		0.00020	0.0010	4/23/2012 11:52:00 PM
Chromium	0.0070	mg/L	J	0.00100	0.0100	4/23/2012 11:52:00 PM
Cobalt	0.0034	mg/L	J	0.00100	0.0100	4/23/2012 11:52:00 PM
Copper	0.0055	mg/L	J	0.00100	0.0100	4/23/2012 11:52:00 PM
Lead	0.0021	mg/L	J	0.00020	0.0100	4/23/2012 11:52:00 PM
Nickel	0.0027	mg/L	J	0.00200	0.0500	4/23/2012 11:52:00 PM
Selenium	0.0020	mg/L	J	0.00100	0.0100	4/23/2012 11:52:00 PM
Silver	ND	mg/L		0.00100	0.0100	4/23/2012 11:52:00 PM
Thallium	ND	mg/L		0.00020	0.0055	4/23/2012 11:52:00 PM
Vanadium	0.0136	mg/L	J	0.00100	0.0250	4/23/2012 11:52:00 PM
Zinc	0.0309	mg/L		0.00300	0.0100	4/23/2012 11:52:00 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/26/2012 5:10:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/26/2012 5:10:00 PM
Benzene	ND	µg/L		0.13	1.0	4/26/2012 5:10:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/26/2012 5:10:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/26/2012 5:10:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/26/2012 5:10:00 PM
Bromomethane	ND	µg/L		0.50	10	4/26/2012 5:10:00 PM
2-Butanone	ND	µg/L		4.68	100	4/26/2012 5:10:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/26/2012 5:10:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/26/2012 5:10:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/26/2012 5:10:00 PM
Chloroethane	ND	µg/L		0.94	10	4/26/2012 5:10:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/26/2012 5:10:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/26/2012 5:10:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/26/2012 5:10:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/26/2012 5:10:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/26/2012 5:10:00 PM
Dibromomethane	ND	µg/L		0.29	10	4/26/2012 5:10:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/26/2012 5:10:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/26/2012 5:10:00 PM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-07A
Client Sample ID:	MW-10	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 3:15:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/26/2012 5:10:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/26/2012 5:10:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/26/2012 5:10:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/26/2012 5:10:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/26/2012 5:10:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/26/2012 5:10:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/26/2012 5:10:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/26/2012 5:10:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/26/2012 5:10:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/26/2012 5:10:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/26/2012 5:10:00 PM
Iodomethane	ND	µg/L		3.44	10	4/26/2012 5:10:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/26/2012 5:10:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/26/2012 5:10:00 PM
Styrene	ND	µg/L		0.24	1.0	4/26/2012 5:10:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/26/2012 5:10:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/26/2012 5:10:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/26/2012 5:10:00 PM
Toluene	ND	µg/L		0.17	1.0	4/26/2012 5:10:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/26/2012 5:10:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/26/2012 5:10:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/26/2012 5:10:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/26/2012 5:10:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/26/2012 5:10:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/26/2012 5:10:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/26/2012 5:10:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/26/2012 5:10:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/26/2012 5:10:00 PM
Surr: 1,2-Dichloroethane-d4	94.3	%REC			80-120	4/26/2012 5:10:00 PM
Surr: 4-Bromofluorobenzene	104	%REC			86-115	4/26/2012 5:10:00 PM
Surr: Dibromofluoromethane	102	%REC			80-120	4/26/2012 5:10:00 PM
Surr: Toluene-d8	100	%REC			88-110	4/26/2012 5:10:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	633	mg/L		5.0	10	4/21/2012 1:30:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-08A
Client Sample ID:	MW-14	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 4:15:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/23/2012 11:58:00 PM
Arsenic	ND	mg/L		0.00100	0.0100	4/23/2012 11:58:00 PM
Barium	0.149	mg/L		0.00100	0.100	4/23/2012 11:58:00 PM
Beryllium	ND	mg/L		0.00020	0.0010	4/23/2012 11:58:00 PM
Cadmium	0.0004	mg/L	J	0.00020	0.0010	4/23/2012 11:58:00 PM
Chromium	0.0030	mg/L	J	0.00100	0.0100	4/23/2012 11:58:00 PM
Cobalt	0.0062	mg/L	J	0.00100	0.0100	4/23/2012 11:58:00 PM
Copper	0.0064	mg/L	J	0.00100	0.0100	4/23/2012 11:58:00 PM
Lead	0.0046	mg/L	J	0.00020	0.0100	4/23/2012 11:58:00 PM
Nickel	0.0026	mg/L	J	0.00200	0.0500	4/23/2012 11:58:00 PM
Selenium	ND	mg/L		0.00100	0.0100	4/23/2012 11:58:00 PM
Silver	ND	mg/L		0.00100	0.0100	4/23/2012 11:58:00 PM
Thallium	ND	mg/L		0.00020	0.0055	4/23/2012 11:58:00 PM
Vanadium	0.0052	mg/L	J	0.00100	0.0250	4/23/2012 11:58:00 PM
Zinc	0.0366	mg/L		0.00300	0.0100	4/23/2012 11:58:00 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/26/2012 5:45:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/26/2012 5:45:00 PM
Benzene	ND	µg/L		0.13	1.0	4/26/2012 5:45:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/26/2012 5:45:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/26/2012 5:45:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/26/2012 5:45:00 PM
Bromomethane	ND	µg/L		0.50	10	4/26/2012 5:45:00 PM
2-Butanone	ND	µg/L		4.68	100	4/26/2012 5:45:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/26/2012 5:45:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/26/2012 5:45:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/26/2012 5:45:00 PM
Chloroethane	ND	µg/L		0.94	10	4/26/2012 5:45:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/26/2012 5:45:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/26/2012 5:45:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/26/2012 5:45:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/26/2012 5:45:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/26/2012 5:45:00 PM
Dibromomethane	ND	µg/L		0.29	10	4/26/2012 5:45:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/26/2012 5:45:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/26/2012 5:45:00 PM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-08A
Client Sample ID:	MW-14	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 4:15:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/26/2012 5:45:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/26/2012 5:45:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/26/2012 5:45:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/26/2012 5:45:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/26/2012 5:45:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/26/2012 5:45:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/26/2012 5:45:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/26/2012 5:45:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/26/2012 5:45:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/26/2012 5:45:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/26/2012 5:45:00 PM
Iodomethane	ND	µg/L		3.44	10	4/26/2012 5:45:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/26/2012 5:45:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/26/2012 5:45:00 PM
Styrene	ND	µg/L		0.24	1.0	4/26/2012 5:45:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/26/2012 5:45:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/26/2012 5:45:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/26/2012 5:45:00 PM
Toluene	ND	µg/L		0.17	1.0	4/26/2012 5:45:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/26/2012 5:45:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/26/2012 5:45:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/26/2012 5:45:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/26/2012 5:45:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/26/2012 5:45:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/26/2012 5:45:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/26/2012 5:45:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/26/2012 5:45:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/26/2012 5:45:00 PM
Surr: 1,2-Dichloroethane-d4	92.8	%REC			80-120	4/26/2012 5:45:00 PM
Surr: 4-Bromofluorobenzene	105	%REC			86-115	4/26/2012 5:45:00 PM
Surr: Dibromofluoromethane	101	%REC			80-120	4/26/2012 5:45:00 PM
Surr: Toluene-d8	99.8	%REC			88-110	4/26/2012 5:45:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	84	mg/L		2.5	5	4/21/2012 1:30:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-09A
Client Sample ID:	MW-15	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 3:45:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/24/2012 12:03:00 AM
Arsenic	ND	mg/L		0.00100	0.0100	4/24/2012 12:03:00 AM
Barium	2.37	mg/L		0.00100	0.100	4/24/2012 12:03:00 AM
Beryllium	0.0013	mg/L		0.00020	0.0010	4/24/2012 12:03:00 AM
Cadmium	ND	mg/L		0.00020	0.0010	4/24/2012 12:03:00 AM
Chromium	0.0054	mg/L	J	0.00100	0.0100	4/24/2012 12:03:00 AM
Cobalt	0.0565	mg/L		0.00100	0.0100	4/24/2012 12:03:00 AM
Copper	0.170	mg/L		0.00100	0.0100	4/24/2012 12:03:00 AM
Lead	0.0483	mg/L		0.00020	0.0100	4/24/2012 12:03:00 AM
Nickel	0.0089	mg/L	J	0.00200	0.0500	4/24/2012 12:03:00 AM
Selenium	0.0149	mg/L		0.00100	0.0100	4/24/2012 12:03:00 AM
Silver	ND	mg/L		0.00100	0.0100	4/24/2012 12:03:00 AM
Thallium	0.0003	mg/L	J	0.00020	0.0055	4/24/2012 12:03:00 AM
Vanadium	0.0155	mg/L	J	0.00100	0.0250	4/24/2012 12:03:00 AM
Zinc	0.0768	mg/L		0.00300	0.0100	4/24/2012 12:03:00 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/26/2012 6:20:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/26/2012 6:20:00 PM
Benzene	ND	µg/L		0.13	1.0	4/26/2012 6:20:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/26/2012 6:20:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/26/2012 6:20:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/26/2012 6:20:00 PM
Bromomethane	ND	µg/L		0.50	10	4/26/2012 6:20:00 PM
2-Butanone	ND	µg/L		4.68	100	4/26/2012 6:20:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/26/2012 6:20:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/26/2012 6:20:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/26/2012 6:20:00 PM
Chloroethane	ND	µg/L		0.94	10	4/26/2012 6:20:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/26/2012 6:20:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/26/2012 6:20:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/26/2012 6:20:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/26/2012 6:20:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/26/2012 6:20:00 PM
Dibromomethane	ND	µg/L		0.29	10	4/26/2012 6:20:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/26/2012 6:20:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/26/2012 6:20:00 PM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-09A
Client Sample ID:	MW-15	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 3:45:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/26/2012 6:20:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/26/2012 6:20:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/26/2012 6:20:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/26/2012 6:20:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/26/2012 6:20:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/26/2012 6:20:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/26/2012 6:20:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/26/2012 6:20:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/26/2012 6:20:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/26/2012 6:20:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/26/2012 6:20:00 PM
Iodomethane	ND	µg/L		3.44	10	4/26/2012 6:20:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/26/2012 6:20:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/26/2012 6:20:00 PM
Styrene	ND	µg/L		0.24	1.0	4/26/2012 6:20:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/26/2012 6:20:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/26/2012 6:20:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/26/2012 6:20:00 PM
Toluene	ND	µg/L		0.17	1.0	4/26/2012 6:20:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/26/2012 6:20:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/26/2012 6:20:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/26/2012 6:20:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/26/2012 6:20:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/26/2012 6:20:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/26/2012 6:20:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/26/2012 6:20:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/26/2012 6:20:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/26/2012 6:20:00 PM
Surr: 1,2-Dichloroethane-d4	93.9	%REC			80-120	4/26/2012 6:20:00 PM
Surr: 4-Bromofluorobenzene	104	%REC			86-115	4/26/2012 6:20:00 PM
Surr: Dibromofluoromethane	102	%REC			80-120	4/26/2012 6:20:00 PM
Surr: Toluene-d8	100	%REC			88-110	4/26/2012 6:20:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	1,590	mg/L		10	20	4/21/2012 1:30:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-10A
Client Sample ID:	MW-17	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 2:17:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/24/2012 12:08:00 AM
Arsenic	ND	mg/L		0.00100	0.0100	4/24/2012 12:08:00 AM
Barium	0.120	mg/L		0.00100	0.100	4/24/2012 12:08:00 AM
Beryllium	ND	mg/L		0.00020	0.0010	4/24/2012 12:08:00 AM
Cadmium	ND	mg/L		0.00020	0.0010	4/24/2012 12:08:00 AM
Chromium	0.0028	mg/L	J	0.00100	0.0100	4/24/2012 12:08:00 AM
Cobalt	0.0039	mg/L	J	0.00100	0.0100	4/24/2012 12:08:00 AM
Copper	0.0057	mg/L	J	0.00100	0.0100	4/24/2012 12:08:00 AM
Lead	0.0013	mg/L	J	0.00020	0.0100	4/24/2012 12:08:00 AM
Nickel	0.0030	mg/L	J	0.00200	0.0500	4/24/2012 12:08:00 AM
Selenium	0.0020	mg/L	J	0.00100	0.0100	4/24/2012 12:08:00 AM
Silver	ND	mg/L		0.00100	0.0100	4/24/2012 12:08:00 AM
Thallium	ND	mg/L		0.00020	0.0055	4/24/2012 12:08:00 AM
Vanadium	0.0036	mg/L	J	0.00100	0.0250	4/24/2012 12:08:00 AM
Zinc	0.0334	mg/L		0.00300	0.0100	4/24/2012 12:08:00 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/26/2012 6:55:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/26/2012 6:55:00 PM
Benzene	ND	µg/L		0.13	1.0	4/26/2012 6:55:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/26/2012 6:55:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/26/2012 6:55:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/26/2012 6:55:00 PM
Bromomethane	ND	µg/L		0.50	10	4/26/2012 6:55:00 PM
2-Butanone	ND	µg/L		4.68	100	4/26/2012 6:55:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/26/2012 6:55:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/26/2012 6:55:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/26/2012 6:55:00 PM
Chloroethane	ND	µg/L		0.94	10	4/26/2012 6:55:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/26/2012 6:55:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/26/2012 6:55:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/26/2012 6:55:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/26/2012 6:55:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/26/2012 6:55:00 PM
Dibromomethane	ND	µg/L		0.29	10	4/26/2012 6:55:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/26/2012 6:55:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/26/2012 6:55:00 PM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-10A
Client Sample ID:	MW-17	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 2:17:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/26/2012 6:55:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/26/2012 6:55:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/26/2012 6:55:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/26/2012 6:55:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/26/2012 6:55:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/26/2012 6:55:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/26/2012 6:55:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/26/2012 6:55:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/26/2012 6:55:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/26/2012 6:55:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/26/2012 6:55:00 PM
Iodomethane	ND	µg/L		3.44	10	4/26/2012 6:55:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/26/2012 6:55:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/26/2012 6:55:00 PM
Styrene	ND	µg/L		0.24	1.0	4/26/2012 6:55:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/26/2012 6:55:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/26/2012 6:55:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/26/2012 6:55:00 PM
Toluene	ND	µg/L		0.17	1.0	4/26/2012 6:55:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/26/2012 6:55:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/26/2012 6:55:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/26/2012 6:55:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/26/2012 6:55:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/26/2012 6:55:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/26/2012 6:55:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/26/2012 6:55:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/26/2012 6:55:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/26/2012 6:55:00 PM
Surr: 1,2-Dichloroethane-d4	97.0	%REC			80-120	4/26/2012 6:55:00 PM
Surr: 4-Bromofluorobenzene	106	%REC			86-115	4/26/2012 6:55:00 PM
Surr: Dibromofluoromethane	102	%REC			80-120	4/26/2012 6:55:00 PM
Surr: Toluene-d8	100	%REC			88-110	4/26/2012 6:55:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	212	mg/L		5.0	10	4/21/2012 1:30:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-11A
Client Sample ID:	MW-18	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 2:38:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/24/2012 12:14:00 AM
Arsenic	ND	mg/L		0.00100	0.0100	4/24/2012 12:14:00 AM
Barium	0.110	mg/L		0.00100	0.100	4/24/2012 12:14:00 AM
Beryllium	ND	mg/L		0.00020	0.0010	4/24/2012 12:14:00 AM
Cadmium	ND	mg/L		0.00020	0.0010	4/24/2012 12:14:00 AM
Chromium	0.0029	mg/L	J	0.00100	0.0100	4/24/2012 12:14:00 AM
Cobalt	ND	mg/L		0.00100	0.0100	4/24/2012 12:14:00 AM
Copper	0.0026	mg/L	J	0.00100	0.0100	4/24/2012 12:14:00 AM
Lead	0.0010	mg/L	J	0.00020	0.0100	4/24/2012 12:14:00 AM
Nickel	ND	mg/L		0.00200	0.0500	4/24/2012 12:14:00 AM
Selenium	ND	mg/L		0.00100	0.0100	4/24/2012 12:14:00 AM
Silver	ND	mg/L		0.00100	0.0100	4/24/2012 12:14:00 AM
Thallium	ND	mg/L		0.00020	0.0055	4/24/2012 12:14:00 AM
Vanadium	0.0031	mg/L	J	0.00100	0.0250	4/24/2012 12:14:00 AM
Zinc	0.0084	mg/L	J	0.00300	0.0100	4/24/2012 12:14:00 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/26/2012 7:30:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/26/2012 7:30:00 PM
Benzene	ND	µg/L		0.13	1.0	4/26/2012 7:30:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/26/2012 7:30:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/26/2012 7:30:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/26/2012 7:30:00 PM
Bromomethane	ND	µg/L		0.50	10	4/26/2012 7:30:00 PM
2-Butanone	ND	µg/L		4.68	100	4/26/2012 7:30:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/26/2012 7:30:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/26/2012 7:30:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/26/2012 7:30:00 PM
Chloroethane	ND	µg/L		0.94	10	4/26/2012 7:30:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/26/2012 7:30:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/26/2012 7:30:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/26/2012 7:30:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/26/2012 7:30:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/26/2012 7:30:00 PM
Dibromomethane	ND	µg/L		0.29	10	4/26/2012 7:30:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/26/2012 7:30:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/26/2012 7:30:00 PM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-11A
Client Sample ID:	MW-18	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 2:38:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/26/2012 7:30:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/26/2012 7:30:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/26/2012 7:30:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/26/2012 7:30:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/26/2012 7:30:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/26/2012 7:30:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/26/2012 7:30:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/26/2012 7:30:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/26/2012 7:30:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/26/2012 7:30:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/26/2012 7:30:00 PM
Iodomethane	ND	µg/L		3.44	10	4/26/2012 7:30:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/26/2012 7:30:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/26/2012 7:30:00 PM
Styrene	ND	µg/L		0.24	1.0	4/26/2012 7:30:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/26/2012 7:30:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/26/2012 7:30:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/26/2012 7:30:00 PM
Toluene	ND	µg/L		0.17	1.0	4/26/2012 7:30:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/26/2012 7:30:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/26/2012 7:30:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/26/2012 7:30:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/26/2012 7:30:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/26/2012 7:30:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/26/2012 7:30:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/26/2012 7:30:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/26/2012 7:30:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/26/2012 7:30:00 PM
Surr: 1,2-Dichloroethane-d4	96.1	%REC			80-120	4/26/2012 7:30:00 PM
Surr: 4-Bromofluorobenzene	105	%REC			86-115	4/26/2012 7:30:00 PM
Surr: Dibromofluoromethane	101	%REC			80-120	4/26/2012 7:30:00 PM
Surr: Toluene-d8	102	%REC			88-110	4/26/2012 7:30:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	84	mg/L		3.5	7	4/21/2012 1:30:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-12A
Client Sample ID:	MW-19	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 8:35:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/24/2012 12:19:00 AM
Arsenic	ND	mg/L		0.00100	0.0100	4/24/2012 12:19:00 AM
Barium	0.324	mg/L		0.00100	0.100	4/24/2012 12:19:00 AM
Beryllium	0.0005	mg/L	J	0.00020	0.0010	4/24/2012 12:19:00 AM
Cadmium	ND	mg/L		0.00020	0.0010	4/24/2012 12:19:00 AM
Chromium	0.0047	mg/L	J	0.00100	0.0100	4/24/2012 12:19:00 AM
Cobalt	0.0042	mg/L	J	0.00100	0.0100	4/24/2012 12:19:00 AM
Copper	0.0054	mg/L	J	0.00100	0.0100	4/24/2012 12:19:00 AM
Lead	0.0108	mg/L		0.00020	0.0100	4/24/2012 12:19:00 AM
Nickel	0.0024	mg/L	J	0.00200	0.0500	4/24/2012 12:19:00 AM
Selenium	ND	mg/L		0.00100	0.0100	4/24/2012 12:19:00 AM
Silver	ND	mg/L		0.00100	0.0100	4/24/2012 12:19:00 AM
Thallium	ND	mg/L		0.00020	0.0055	4/24/2012 12:19:00 AM
Vanadium	0.0075	mg/L	J	0.00100	0.0250	4/24/2012 12:19:00 AM
Zinc	0.0340	mg/L		0.00300	0.0100	4/24/2012 12:19:00 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/25/2012 12:13:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/25/2012 12:13:00 PM
Benzene	ND	µg/L		0.13	1.0	4/25/2012 12:13:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/25/2012 12:13:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/25/2012 12:13:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/25/2012 12:13:00 PM
Bromomethane	ND	µg/L		0.50	10	4/25/2012 12:13:00 PM
2-Butanone	ND	µg/L		4.68	100	4/25/2012 12:13:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/25/2012 12:13:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/25/2012 12:13:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/25/2012 12:13:00 PM
Chloroethane	ND	µg/L		0.94	10	4/25/2012 12:13:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/25/2012 12:13:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/25/2012 12:13:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/25/2012 12:13:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/25/2012 12:13:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/25/2012 12:13:00 PM
Dibromomethane	ND	µg/L		0.29	10	4/25/2012 12:13:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/25/2012 12:13:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/25/2012 12:13:00 PM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-12A
Client Sample ID:	MW-19	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 8:35:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/25/2012 12:13:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/25/2012 12:13:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/25/2012 12:13:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/25/2012 12:13:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/25/2012 12:13:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/25/2012 12:13:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/25/2012 12:13:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 12:13:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 12:13:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/25/2012 12:13:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/25/2012 12:13:00 PM
Iodomethane	ND	µg/L		3.44	10	4/25/2012 12:13:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/25/2012 12:13:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/25/2012 12:13:00 PM
Styrene	ND	µg/L		0.24	1.0	4/25/2012 12:13:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/25/2012 12:13:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/25/2012 12:13:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/25/2012 12:13:00 PM
Toluene	ND	µg/L		0.17	1.0	4/25/2012 12:13:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/25/2012 12:13:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/25/2012 12:13:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/25/2012 12:13:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/25/2012 12:13:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/25/2012 12:13:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/25/2012 12:13:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/25/2012 12:13:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/25/2012 12:13:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/25/2012 12:13:00 PM
Surr: 1,2-Dichloroethane-d4	91.0	%REC			80-120	4/25/2012 12:13:00 PM
Surr: 4-Bromofluorobenzene	96.9	%REC			86-115	4/25/2012 12:13:00 PM
Surr: Dibromofluoromethane	108	%REC			80-120	4/25/2012 12:13:00 PM
Surr: Toluene-d8	99.9	%REC			88-110	4/25/2012 12:13:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	357	mg/L		5.0	10	4/21/2012 1:30:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-13A
Client Sample ID:	MW-19A	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 11:37:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/24/2012 12:24:00 AM
Arsenic	ND	mg/L		0.00100	0.0100	4/24/2012 12:24:00 AM
Barium	0.0758	mg/L	J	0.00100	0.100	4/24/2012 12:24:00 AM
Beryllium	ND	mg/L		0.00020	0.0010	4/24/2012 12:24:00 AM
Cadmium	ND	mg/L		0.00020	0.0010	4/24/2012 12:24:00 AM
Chromium	ND	mg/L		0.00100	0.0100	4/24/2012 12:24:00 AM
Cobalt	ND	mg/L		0.00100	0.0100	4/24/2012 12:24:00 AM
Copper	0.0054	mg/L	J	0.00100	0.0100	4/24/2012 12:24:00 AM
Lead	0.0002	mg/L	J	0.00020	0.0100	4/24/2012 12:24:00 AM
Nickel	ND	mg/L		0.00200	0.0500	4/24/2012 12:24:00 AM
Selenium	ND	mg/L		0.00100	0.0100	4/24/2012 12:24:00 AM
Silver	ND	mg/L		0.00100	0.0100	4/24/2012 12:24:00 AM
Thallium	ND	mg/L		0.00020	0.0055	4/24/2012 12:24:00 AM
Vanadium	ND	mg/L		0.00100	0.0250	4/24/2012 12:24:00 AM
Zinc	0.0212	mg/L		0.00300	0.0100	4/24/2012 12:24:00 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/25/2012 12:47:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/25/2012 12:47:00 PM
Benzene	ND	µg/L		0.13	1.0	4/25/2012 12:47:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/25/2012 12:47:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/25/2012 12:47:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/25/2012 12:47:00 PM
Bromomethane	ND	µg/L		0.50	10	4/25/2012 12:47:00 PM
2-Butanone	ND	µg/L		4.68	100	4/25/2012 12:47:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/25/2012 12:47:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/25/2012 12:47:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/25/2012 12:47:00 PM
Chloroethane	ND	µg/L		0.94	10	4/25/2012 12:47:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/25/2012 12:47:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/25/2012 12:47:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/25/2012 12:47:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/25/2012 12:47:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/25/2012 12:47:00 PM
Dibromomethane	ND	µg/L		0.29	10	4/25/2012 12:47:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/25/2012 12:47:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/25/2012 12:47:00 PM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-13A
Client Sample ID:	MW-19A	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 11:37:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/25/2012 12:47:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/25/2012 12:47:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/25/2012 12:47:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/25/2012 12:47:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/25/2012 12:47:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/25/2012 12:47:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/25/2012 12:47:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 12:47:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 12:47:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/25/2012 12:47:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/25/2012 12:47:00 PM
Iodomethane	ND	µg/L		3.44	10	4/25/2012 12:47:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/25/2012 12:47:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/25/2012 12:47:00 PM
Styrene	ND	µg/L		0.24	1.0	4/25/2012 12:47:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/25/2012 12:47:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/25/2012 12:47:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/25/2012 12:47:00 PM
Toluene	ND	µg/L		0.17	1.0	4/25/2012 12:47:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/25/2012 12:47:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/25/2012 12:47:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/25/2012 12:47:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/25/2012 12:47:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/25/2012 12:47:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/25/2012 12:47:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/25/2012 12:47:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/25/2012 12:47:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/25/2012 12:47:00 PM
Surr: 1,2-Dichloroethane-d4	94.3	%REC			80-120	4/25/2012 12:47:00 PM
Surr: 4-Bromofluorobenzene	96.8	%REC			86-115	4/25/2012 12:47:00 PM
Surr: Dibromofluoromethane	108	%REC			80-120	4/25/2012 12:47:00 PM
Surr: Toluene-d8	100	%REC			88-110	4/25/2012 12:47:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	17	mg/L		3.5	7	4/21/2012 1:30:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-14A
Client Sample ID:	MW-20	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 9:01:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/24/2012 12:30:00 AM
Arsenic	ND	mg/L		0.00100	0.0100	4/24/2012 12:30:00 AM
Barium	0.0462	mg/L	J	0.00100	0.100	4/24/2012 12:30:00 AM
Beryllium	ND	mg/L		0.00020	0.0010	4/24/2012 12:30:00 AM
Cadmium	0.0003	mg/L	J	0.00020	0.0010	4/24/2012 12:30:00 AM
Chromium	ND	mg/L		0.00100	0.0100	4/24/2012 12:30:00 AM
Cobalt	0.0026	mg/L	J	0.00100	0.0100	4/24/2012 12:30:00 AM
Copper	0.0026	mg/L	J	0.00100	0.0100	4/24/2012 12:30:00 AM
Lead	0.0006	mg/L	J	0.00020	0.0100	4/24/2012 12:30:00 AM
Nickel	ND	mg/L		0.00200	0.0500	4/24/2012 12:30:00 AM
Selenium	ND	mg/L		0.00100	0.0100	4/24/2012 12:30:00 AM
Silver	ND	mg/L		0.00100	0.0100	4/24/2012 12:30:00 AM
Thallium	ND	mg/L		0.00020	0.0055	4/24/2012 12:30:00 AM
Vanadium	0.0015	mg/L	J	0.00100	0.0250	4/24/2012 12:30:00 AM
Zinc	0.0057	mg/L	J	0.00300	0.0100	4/24/2012 12:30:00 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/25/2012 1:20:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/25/2012 1:20:00 PM
Benzene	ND	µg/L		0.13	1.0	4/25/2012 1:20:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/25/2012 1:20:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/25/2012 1:20:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/25/2012 1:20:00 PM
Bromomethane	ND	µg/L		0.50	10	4/25/2012 1:20:00 PM
2-Butanone	ND	µg/L		4.68	100	4/25/2012 1:20:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/25/2012 1:20:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/25/2012 1:20:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/25/2012 1:20:00 PM
Chloroethane	ND	µg/L		0.94	10	4/25/2012 1:20:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/25/2012 1:20:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/25/2012 1:20:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/25/2012 1:20:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/25/2012 1:20:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/25/2012 1:20:00 PM
Dibromomethane	ND	µg/L		0.29	10	4/25/2012 1:20:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/25/2012 1:20:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/25/2012 1:20:00 PM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-14A
Client Sample ID:	MW-20	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 9:01:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/25/2012 1:20:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/25/2012 1:20:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/25/2012 1:20:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/25/2012 1:20:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/25/2012 1:20:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/25/2012 1:20:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/25/2012 1:20:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 1:20:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 1:20:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/25/2012 1:20:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/25/2012 1:20:00 PM
Iodomethane	ND	µg/L		3.44	10	4/25/2012 1:20:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/25/2012 1:20:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/25/2012 1:20:00 PM
Styrene	ND	µg/L		0.24	1.0	4/25/2012 1:20:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/25/2012 1:20:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/25/2012 1:20:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/25/2012 1:20:00 PM
Toluene	ND	µg/L		0.17	1.0	4/25/2012 1:20:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/25/2012 1:20:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/25/2012 1:20:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/25/2012 1:20:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/25/2012 1:20:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/25/2012 1:20:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/25/2012 1:20:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/25/2012 1:20:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/25/2012 1:20:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/25/2012 1:20:00 PM
Surr: 1,2-Dichloroethane-d4	90.6	%REC			80-120	4/25/2012 1:20:00 PM
Surr: 4-Bromofluorobenzene	95.4	%REC			86-115	4/25/2012 1:20:00 PM
Surr: Dibromofluoromethane	108	%REC			80-120	4/25/2012 1:20:00 PM
Surr: Toluene-d8	98.7	%REC			88-110	4/25/2012 1:20:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	20	mg/L		2.5	5	4/21/2012 1:30:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-15A
Client Sample ID:	MW-21	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 9:20:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/24/2012 12:35:00 AM
Arsenic	ND	mg/L		0.00100	0.0100	4/24/2012 12:35:00 AM
Barium	0.0174	mg/L	J	0.00100	0.100	4/24/2012 12:35:00 AM
Beryllium	ND	mg/L		0.00020	0.0010	4/24/2012 12:35:00 AM
Cadmium	ND	mg/L		0.00020	0.0010	4/24/2012 12:35:00 AM
Chromium	ND	mg/L		0.00100	0.0100	4/24/2012 12:35:00 AM
Cobalt	0.0129	mg/L		0.00100	0.0100	4/24/2012 12:35:00 AM
Copper	0.0019	mg/L	J	0.00100	0.0100	4/24/2012 12:35:00 AM
Lead	ND	mg/L		0.00020	0.0100	4/24/2012 12:35:00 AM
Nickel	ND	mg/L		0.00200	0.0500	4/24/2012 12:35:00 AM
Selenium	ND	mg/L		0.00100	0.0100	4/24/2012 12:35:00 AM
Silver	ND	mg/L		0.00100	0.0100	4/24/2012 12:35:00 AM
Thallium	ND	mg/L		0.00020	0.0055	4/24/2012 12:35:00 AM
Vanadium	ND	mg/L		0.00100	0.0250	4/24/2012 12:35:00 AM
Zinc	0.0042	mg/L	J	0.00300	0.0100	4/24/2012 12:35:00 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/25/2012 1:53:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/25/2012 1:53:00 PM
Benzene	ND	µg/L		0.13	1.0	4/25/2012 1:53:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/25/2012 1:53:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/25/2012 1:53:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/25/2012 1:53:00 PM
Bromomethane	ND	µg/L		0.50	10	4/25/2012 1:53:00 PM
2-Butanone	ND	µg/L		4.68	100	4/25/2012 1:53:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/25/2012 1:53:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/25/2012 1:53:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/25/2012 1:53:00 PM
Chloroethane	ND	µg/L		0.94	10	4/25/2012 1:53:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/25/2012 1:53:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/25/2012 1:53:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/25/2012 1:53:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/25/2012 1:53:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/25/2012 1:53:00 PM
Dibromomethane	ND	µg/L		0.29	10	4/25/2012 1:53:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/25/2012 1:53:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/25/2012 1:53:00 PM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-15A
Client Sample ID:	MW-21	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 9:20:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/25/2012 1:53:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/25/2012 1:53:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/25/2012 1:53:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/25/2012 1:53:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/25/2012 1:53:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/25/2012 1:53:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/25/2012 1:53:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 1:53:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 1:53:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/25/2012 1:53:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/25/2012 1:53:00 PM
Iodomethane	ND	µg/L		3.44	10	4/25/2012 1:53:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/25/2012 1:53:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/25/2012 1:53:00 PM
Styrene	ND	µg/L		0.24	1.0	4/25/2012 1:53:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/25/2012 1:53:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/25/2012 1:53:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/25/2012 1:53:00 PM
Toluene	ND	µg/L		0.17	1.0	4/25/2012 1:53:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/25/2012 1:53:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/25/2012 1:53:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/25/2012 1:53:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/25/2012 1:53:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/25/2012 1:53:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/25/2012 1:53:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/25/2012 1:53:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/25/2012 1:53:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/25/2012 1:53:00 PM
Surr: 1,2-Dichloroethane-d4	93.1	%REC			80-120	4/25/2012 1:53:00 PM
Surr: 4-Bromofluorobenzene	96.2	%REC			86-115	4/25/2012 1:53:00 PM
Surr: Dibromofluoromethane	106	%REC			80-120	4/25/2012 1:53:00 PM
Surr: Toluene-d8	99.9	%REC			88-110	4/25/2012 1:53:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	9	mg/L		3.5	7	4/21/2012 1:30:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-16A
Client Sample ID:	MW-22	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 9:54:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/24/2012 12:41:00 AM
Arsenic	ND	mg/L		0.00100	0.0100	4/24/2012 12:41:00 AM
Barium	0.768	mg/L		0.00100	0.100	4/24/2012 12:41:00 AM
Beryllium	0.0022	mg/L		0.00020	0.0010	4/24/2012 12:41:00 AM
Cadmium	0.0003	mg/L	J	0.00020	0.0010	4/24/2012 12:41:00 AM
Chromium	0.0250	mg/L		0.00100	0.0100	4/24/2012 12:41:00 AM
Cobalt	0.0289	mg/L		0.00100	0.0100	4/24/2012 12:41:00 AM
Copper	0.0284	mg/L		0.00100	0.0100	4/24/2012 12:41:00 AM
Lead	0.0176	mg/L		0.00020	0.0100	4/24/2012 12:41:00 AM
Nickel	0.0159	mg/L	J	0.00200	0.0500	4/24/2012 12:41:00 AM
Selenium	0.0027	mg/L	J	0.00100	0.0100	4/24/2012 12:41:00 AM
Silver	ND	mg/L		0.00100	0.0100	4/24/2012 12:41:00 AM
Thallium	0.0003	mg/L	J	0.00020	0.0055	4/24/2012 12:41:00 AM
Vanadium	0.0378	mg/L		0.00100	0.0250	4/24/2012 12:41:00 AM
Zinc	0.0779	mg/L		0.00300	0.0100	4/24/2012 12:41:00 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/25/2012 2:26:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/25/2012 2:26:00 PM
Benzene	ND	µg/L		0.13	1.0	4/25/2012 2:26:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/25/2012 2:26:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/25/2012 2:26:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/25/2012 2:26:00 PM
Bromomethane	ND	µg/L		0.50	10	4/25/2012 2:26:00 PM
2-Butanone	ND	µg/L		4.68	100	4/25/2012 2:26:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/25/2012 2:26:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/25/2012 2:26:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/25/2012 2:26:00 PM
Chloroethane	ND	µg/L		0.94	10	4/25/2012 2:26:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/25/2012 2:26:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/25/2012 2:26:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/25/2012 2:26:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/25/2012 2:26:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/25/2012 2:26:00 PM
Dibromomethane	ND	µg/L		0.29	10	4/25/2012 2:26:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/25/2012 2:26:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/25/2012 2:26:00 PM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-16A
Client Sample ID:	MW-22	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 9:54:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/25/2012 2:26:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/25/2012 2:26:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/25/2012 2:26:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/25/2012 2:26:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/25/2012 2:26:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/25/2012 2:26:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/25/2012 2:26:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 2:26:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 2:26:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/25/2012 2:26:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/25/2012 2:26:00 PM
Iodomethane	ND	µg/L		3.44	10	4/25/2012 2:26:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/25/2012 2:26:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/25/2012 2:26:00 PM
Styrene	ND	µg/L		0.24	1.0	4/25/2012 2:26:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/25/2012 2:26:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/25/2012 2:26:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/25/2012 2:26:00 PM
Toluene	ND	µg/L		0.17	1.0	4/25/2012 2:26:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/25/2012 2:26:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/25/2012 2:26:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/25/2012 2:26:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/25/2012 2:26:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/25/2012 2:26:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/25/2012 2:26:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/25/2012 2:26:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/25/2012 2:26:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/25/2012 2:26:00 PM
Surr: 1,2-Dichloroethane-d4	93.2	%REC			80-120	4/25/2012 2:26:00 PM
Surr: 4-Bromofluorobenzene	96.1	%REC			86-115	4/25/2012 2:26:00 PM
Surr: Dibromofluoromethane	106	%REC			80-120	4/25/2012 2:26:00 PM
Surr: Toluene-d8	98.2	%REC			88-110	4/25/2012 2:26:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	1,250	mg/L		10	20	4/21/2012 1:30:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-17A
Client Sample ID:	MW-22A	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 9:58:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/24/2012 12:57:00 AM
Arsenic	ND	mg/L		0.00100	0.0100	4/24/2012 12:57:00 AM
Barium	0.0567	mg/L	J	0.00100	0.100	4/24/2012 12:57:00 AM
Beryllium	ND	mg/L		0.00020	0.0010	4/24/2012 12:57:00 AM
Cadmium	0.0003	mg/L	J	0.00020	0.0010	4/24/2012 12:57:00 AM
Chromium	0.0018	mg/L	J	0.00100	0.0100	4/24/2012 12:57:00 AM
Cobalt	ND	mg/L		0.00100	0.0100	4/24/2012 12:57:00 AM
Copper	0.0053	mg/L	J	0.00100	0.0100	4/24/2012 12:57:00 AM
Lead	0.0005	mg/L	J	0.00020	0.0100	4/24/2012 12:57:00 AM
Nickel	ND	mg/L		0.00200	0.0500	4/24/2012 12:57:00 AM
Selenium	ND	mg/L		0.00100	0.0100	4/24/2012 12:57:00 AM
Silver	ND	mg/L		0.00100	0.0100	4/24/2012 12:57:00 AM
Thallium	ND	mg/L		0.00020	0.0055	4/24/2012 12:57:00 AM
Vanadium	0.0025	mg/L	J	0.00100	0.0250	4/24/2012 12:57:00 AM
Zinc	0.0181	mg/L		0.00300	0.0100	4/24/2012 12:57:00 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/25/2012 3:00:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/25/2012 3:00:00 PM
Benzene	ND	µg/L		0.13	1.0	4/25/2012 3:00:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/25/2012 3:00:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/25/2012 3:00:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/25/2012 3:00:00 PM
Bromomethane	ND	µg/L		0.50	10	4/25/2012 3:00:00 PM
2-Butanone	ND	µg/L		4.68	100	4/25/2012 3:00:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/25/2012 3:00:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/25/2012 3:00:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/25/2012 3:00:00 PM
Chloroethane	ND	µg/L		0.94	10	4/25/2012 3:00:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/25/2012 3:00:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/25/2012 3:00:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/25/2012 3:00:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/25/2012 3:00:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/25/2012 3:00:00 PM
Dibromomethane	ND	µg/L		0.29	10	4/25/2012 3:00:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/25/2012 3:00:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/25/2012 3:00:00 PM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-17A
Client Sample ID:	MW-22A	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 9:58:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/25/2012 3:00:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/25/2012 3:00:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/25/2012 3:00:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/25/2012 3:00:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/25/2012 3:00:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/25/2012 3:00:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/25/2012 3:00:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 3:00:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 3:00:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/25/2012 3:00:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/25/2012 3:00:00 PM
Iodomethane	ND	µg/L		3.44	10	4/25/2012 3:00:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/25/2012 3:00:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/25/2012 3:00:00 PM
Styrene	ND	µg/L		0.24	1.0	4/25/2012 3:00:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/25/2012 3:00:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/25/2012 3:00:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/25/2012 3:00:00 PM
Toluene	ND	µg/L		0.17	1.0	4/25/2012 3:00:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/25/2012 3:00:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/25/2012 3:00:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/25/2012 3:00:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/25/2012 3:00:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/25/2012 3:00:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/25/2012 3:00:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/25/2012 3:00:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/25/2012 3:00:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/25/2012 3:00:00 PM
Surr: 1,2-Dichloroethane-d4	94.7	%REC			80-120	4/25/2012 3:00:00 PM
Surr: 4-Bromofluorobenzene	95.3	%REC			86-115	4/25/2012 3:00:00 PM
Surr: Dibromofluoromethane	108	%REC			80-120	4/25/2012 3:00:00 PM
Surr: Toluene-d8	98.6	%REC			88-110	4/25/2012 3:00:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	26	mg/L		5.0	10	4/21/2012 1:30:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-18A
Client Sample ID:	MW-23	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 10:35:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/24/2012 1:02:00 AM
Arsenic	ND	mg/L		0.00100	0.0100	4/24/2012 1:02:00 AM
Barium	0.110	mg/L		0.00100	0.100	4/24/2012 1:02:00 AM
Beryllium	ND	mg/L		0.00020	0.0010	4/24/2012 1:02:00 AM
Cadmium	ND	mg/L		0.00020	0.0010	4/24/2012 1:02:00 AM
Chromium	0.0017	mg/L	J	0.00100	0.0100	4/24/2012 1:02:00 AM
Cobalt	0.0022	mg/L	J	0.00100	0.0100	4/24/2012 1:02:00 AM
Copper	0.0036	mg/L	J	0.00100	0.0100	4/24/2012 1:02:00 AM
Lead	0.0011	mg/L	J	0.00020	0.0100	4/24/2012 1:02:00 AM
Nickel	0.0027	mg/L	J	0.00200	0.0500	4/24/2012 1:02:00 AM
Selenium	ND	mg/L		0.00100	0.0100	4/24/2012 1:02:00 AM
Silver	ND	mg/L		0.00100	0.0100	4/24/2012 1:02:00 AM
Thallium	ND	mg/L		0.00020	0.0055	4/24/2012 1:02:00 AM
Vanadium	0.0030	mg/L	J	0.00100	0.0250	4/24/2012 1:02:00 AM
Zinc	0.0120	mg/L		0.00300	0.0100	4/24/2012 1:02:00 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/25/2012 3:33:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/25/2012 3:33:00 PM
Benzene	ND	µg/L		0.13	1.0	4/25/2012 3:33:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/25/2012 3:33:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/25/2012 3:33:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/25/2012 3:33:00 PM
Bromomethane	ND	µg/L		0.50	10	4/25/2012 3:33:00 PM
2-Butanone	ND	µg/L		4.68	100	4/25/2012 3:33:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/25/2012 3:33:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/25/2012 3:33:00 PM
Chlorobenzene	0.6	µg/L	J	0.18	3.0	4/25/2012 3:33:00 PM
Chloroethane	ND	µg/L		0.94	10	4/25/2012 3:33:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/25/2012 3:33:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/25/2012 3:33:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/25/2012 3:33:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/25/2012 3:33:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/25/2012 3:33:00 PM
Dibromomethane	ND	µg/L		0.29	10	4/25/2012 3:33:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/25/2012 3:33:00 PM
1,4-Dichlorobenzene	1.0	µg/L	J	0.29	1.0	4/25/2012 3:33:00 PM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-18A
Client Sample ID:	MW-23	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 10:35:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/25/2012 3:33:00 PM
1,1-Dichloroethane	1.0	µg/L	J	0.38	5.0	4/25/2012 3:33:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/25/2012 3:33:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/25/2012 3:33:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/25/2012 3:33:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/25/2012 3:33:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/25/2012 3:33:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 3:33:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 3:33:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/25/2012 3:33:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/25/2012 3:33:00 PM
Iodomethane	ND	µg/L		3.44	10	4/25/2012 3:33:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/25/2012 3:33:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/25/2012 3:33:00 PM
Styrene	ND	µg/L		0.24	1.0	4/25/2012 3:33:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/25/2012 3:33:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/25/2012 3:33:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/25/2012 3:33:00 PM
Toluene	ND	µg/L		0.17	1.0	4/25/2012 3:33:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/25/2012 3:33:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/25/2012 3:33:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/25/2012 3:33:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/25/2012 3:33:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/25/2012 3:33:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/25/2012 3:33:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/25/2012 3:33:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/25/2012 3:33:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/25/2012 3:33:00 PM
Surr: 1,2-Dichloroethane-d4	93.2	%REC			80-120	4/25/2012 3:33:00 PM
Surr: 4-Bromofluorobenzene	97.4	%REC			86-115	4/25/2012 3:33:00 PM
Surr: Dibromofluoromethane	106	%REC			80-120	4/25/2012 3:33:00 PM
Surr: Toluene-d8	98.8	%REC			88-110	4/25/2012 3:33:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	18	mg/L		2.5	5	4/21/2012 1:30:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-19A
Client Sample ID:	SW-1	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 12:05:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/24/2012 1:08:00 AM
Arsenic	ND	mg/L		0.00100	0.0100	4/24/2012 1:08:00 AM
Barium	0.0152	mg/L	J	0.00100	0.100	4/24/2012 1:08:00 AM
Beryllium	ND	mg/L		0.00020	0.0010	4/24/2012 1:08:00 AM
Cadmium	ND	mg/L		0.00020	0.0010	4/24/2012 1:08:00 AM
Chromium	ND	mg/L		0.00100	0.0100	4/24/2012 1:08:00 AM
Cobalt	ND	mg/L		0.00100	0.0100	4/24/2012 1:08:00 AM
Copper	0.0021	mg/L	J	0.00100	0.0100	4/24/2012 1:08:00 AM
Lead	0.0003	mg/L	J	0.00020	0.0100	4/24/2012 1:08:00 AM
Nickel	ND	mg/L		0.00200	0.0500	4/24/2012 1:08:00 AM
Selenium	ND	mg/L		0.00100	0.0100	4/24/2012 1:08:00 AM
Silver	ND	mg/L		0.00100	0.0100	4/24/2012 1:08:00 AM
Thallium	ND	mg/L		0.00020	0.0055	4/24/2012 1:08:00 AM
Vanadium	ND	mg/L		0.00100	0.0250	4/24/2012 1:08:00 AM
Zinc	0.0138	mg/L		0.00300	0.0100	4/24/2012 1:08:00 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/25/2012 4:06:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/25/2012 4:06:00 PM
Benzene	ND	µg/L		0.13	1.0	4/25/2012 4:06:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/25/2012 4:06:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/25/2012 4:06:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/25/2012 4:06:00 PM
Bromomethane	ND	µg/L		0.50	10	4/25/2012 4:06:00 PM
2-Butanone	ND	µg/L		4.68	100	4/25/2012 4:06:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/25/2012 4:06:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/25/2012 4:06:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/25/2012 4:06:00 PM
Chloroethane	ND	µg/L		0.94	10	4/25/2012 4:06:00 PM
Chloroform	0.3	µg/L	J	0.25	5.0	4/25/2012 4:06:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/25/2012 4:06:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/25/2012 4:06:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/25/2012 4:06:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/25/2012 4:06:00 PM
Dibromomethane	ND	µg/L		0.29	10	4/25/2012 4:06:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/25/2012 4:06:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/25/2012 4:06:00 PM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-19A
Client Sample ID:	SW-1	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 12:05:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/25/2012 4:06:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/25/2012 4:06:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/25/2012 4:06:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/25/2012 4:06:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/25/2012 4:06:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/25/2012 4:06:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/25/2012 4:06:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 4:06:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 4:06:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/25/2012 4:06:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/25/2012 4:06:00 PM
Iodomethane	ND	µg/L		3.44	10	4/25/2012 4:06:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/25/2012 4:06:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/25/2012 4:06:00 PM
Styrene	ND	µg/L		0.24	1.0	4/25/2012 4:06:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/25/2012 4:06:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/25/2012 4:06:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/25/2012 4:06:00 PM
Toluene	ND	µg/L		0.17	1.0	4/25/2012 4:06:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/25/2012 4:06:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/25/2012 4:06:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/25/2012 4:06:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/25/2012 4:06:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/25/2012 4:06:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/25/2012 4:06:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/25/2012 4:06:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/25/2012 4:06:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/25/2012 4:06:00 PM
Surr: 1,2-Dichloroethane-d4	94.2	%REC			80-120	4/25/2012 4:06:00 PM
Surr: 4-Bromofluorobenzene	93.7	%REC			86-115	4/25/2012 4:06:00 PM
Surr: Dibromofluoromethane	109	%REC			80-120	4/25/2012 4:06:00 PM
Surr: Toluene-d8	99.4	%REC			88-110	4/25/2012 4:06:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	6	mg/L		2.5	5	4/21/2012 1:30:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-20A
Client Sample ID:	SW-2	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 8:30:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/24/2012 1:13:00 AM
Arsenic	ND	mg/L		0.00100	0.0100	4/24/2012 1:13:00 AM
Barium	0.0142	mg/L	J	0.00100	0.100	4/24/2012 1:13:00 AM
Beryllium	ND	mg/L		0.00020	0.0010	4/24/2012 1:13:00 AM
Cadmium	ND	mg/L		0.00020	0.0010	4/24/2012 1:13:00 AM
Chromium	ND	mg/L		0.00100	0.0100	4/24/2012 1:13:00 AM
Cobalt	ND	mg/L		0.00100	0.0100	4/24/2012 1:13:00 AM
Copper	0.0024	mg/L	J	0.00100	0.0100	4/24/2012 1:13:00 AM
Lead	0.0004	mg/L	J	0.00020	0.0100	4/24/2012 1:13:00 AM
Nickel	ND	mg/L		0.00200	0.0500	4/24/2012 1:13:00 AM
Selenium	ND	mg/L		0.00100	0.0100	4/24/2012 1:13:00 AM
Silver	ND	mg/L		0.00100	0.0100	4/24/2012 1:13:00 AM
Thallium	ND	mg/L		0.00020	0.0055	4/24/2012 1:13:00 AM
Vanadium	ND	mg/L		0.00100	0.0250	4/24/2012 1:13:00 AM
Zinc	0.0041	mg/L	J	0.00300	0.0100	4/24/2012 1:13:00 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/25/2012 10:44:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/25/2012 10:44:00 PM
Benzene	ND	µg/L		0.13	1.0	4/25/2012 10:44:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/25/2012 10:44:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/25/2012 10:44:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/25/2012 10:44:00 PM
Bromomethane	ND	µg/L		0.50	10	4/25/2012 10:44:00 PM
2-Butanone	ND	µg/L		4.68	100	4/25/2012 10:44:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/25/2012 10:44:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/25/2012 10:44:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/25/2012 10:44:00 PM
Chloroethane	ND	µg/L		0.94	10	4/25/2012 10:44:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/25/2012 10:44:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/25/2012 10:44:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/25/2012 10:44:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/25/2012 10:44:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/25/2012 10:44:00 PM
Dibromomethane	ND	µg/L		0.29	10	4/25/2012 10:44:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/25/2012 10:44:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/25/2012 10:44:00 PM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-20A
Client Sample ID:	SW-2	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 8:30:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/25/2012 10:44:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/25/2012 10:44:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/25/2012 10:44:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/25/2012 10:44:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/25/2012 10:44:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/25/2012 10:44:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/25/2012 10:44:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 10:44:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 10:44:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/25/2012 10:44:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/25/2012 10:44:00 PM
Iodomethane	ND	µg/L		3.44	10	4/25/2012 10:44:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/25/2012 10:44:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/25/2012 10:44:00 PM
Styrene	ND	µg/L		0.24	1.0	4/25/2012 10:44:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/25/2012 10:44:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/25/2012 10:44:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/25/2012 10:44:00 PM
Toluene	ND	µg/L		0.17	1.0	4/25/2012 10:44:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/25/2012 10:44:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/25/2012 10:44:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/25/2012 10:44:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/25/2012 10:44:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/25/2012 10:44:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/25/2012 10:44:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/25/2012 10:44:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/25/2012 10:44:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/25/2012 10:44:00 PM
Surr: 1,2-Dichloroethane-d4	89.6	%REC			80-120	4/25/2012 10:44:00 PM
Surr: 4-Bromofluorobenzene	91.2	%REC			86-115	4/25/2012 10:44:00 PM
Surr: Dibromofluoromethane	105	%REC			80-120	4/25/2012 10:44:00 PM
Surr: Toluene-d8	96.3	%REC			88-110	4/25/2012 10:44:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	12	mg/L		2.5	5	4/21/2012 1:30:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-21A
Client Sample ID:	SW-3	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 4:35:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/24/2012 1:46:00 AM
Arsenic	ND	mg/L		0.00100	0.0100	4/24/2012 1:46:00 AM
Barium	0.0512	mg/L	J	0.00100	0.100	4/24/2012 1:46:00 AM
Beryllium	ND	mg/L		0.00020	0.0010	4/24/2012 1:46:00 AM
Cadmium	ND	mg/L		0.00020	0.0010	4/24/2012 1:46:00 AM
Chromium	0.0013	mg/L	J	0.00100	0.0100	4/24/2012 1:46:00 AM
Cobalt	0.0012	mg/L	J	0.00100	0.0100	4/24/2012 1:46:00 AM
Copper	0.0026	mg/L	J	0.00100	0.0100	4/24/2012 1:46:00 AM
Lead	0.0011	mg/L	J	0.00020	0.0100	4/24/2012 1:46:00 AM
Nickel	ND	mg/L		0.00200	0.0500	4/24/2012 1:46:00 AM
Selenium	ND	mg/L		0.00100	0.0100	4/24/2012 1:46:00 AM
Silver	ND	mg/L		0.00100	0.0100	4/24/2012 1:46:00 AM
Thallium	ND	mg/L		0.00020	0.0055	4/24/2012 1:46:00 AM
Vanadium	0.0025	mg/L	J	0.00100	0.0250	4/24/2012 1:46:00 AM
Zinc	0.0106	mg/L		0.00300	0.0100	4/24/2012 1:46:00 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/25/2012 11:17:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/25/2012 11:17:00 PM
Benzene	ND	µg/L		0.13	1.0	4/25/2012 11:17:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/25/2012 11:17:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/25/2012 11:17:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/25/2012 11:17:00 PM
Bromomethane	ND	µg/L		0.50	10	4/25/2012 11:17:00 PM
2-Butanone	ND	µg/L		4.68	100	4/25/2012 11:17:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/25/2012 11:17:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/25/2012 11:17:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/25/2012 11:17:00 PM
Chloroethane	ND	µg/L		0.94	10	4/25/2012 11:17:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/25/2012 11:17:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/25/2012 11:17:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/25/2012 11:17:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/25/2012 11:17:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/25/2012 11:17:00 PM
Dibromomethane	ND	µg/L		0.29	10	4/25/2012 11:17:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/25/2012 11:17:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/25/2012 11:17:00 PM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-21A
Client Sample ID:	SW-3	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 4:35:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/25/2012 11:17:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/25/2012 11:17:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/25/2012 11:17:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/25/2012 11:17:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/25/2012 11:17:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/25/2012 11:17:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/25/2012 11:17:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 11:17:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 11:17:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/25/2012 11:17:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/25/2012 11:17:00 PM
Iodomethane	ND	µg/L		3.44	10	4/25/2012 11:17:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/25/2012 11:17:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/25/2012 11:17:00 PM
Styrene	ND	µg/L		0.24	1.0	4/25/2012 11:17:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/25/2012 11:17:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/25/2012 11:17:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/25/2012 11:17:00 PM
Toluene	ND	µg/L		0.17	1.0	4/25/2012 11:17:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/25/2012 11:17:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/25/2012 11:17:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/25/2012 11:17:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/25/2012 11:17:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/25/2012 11:17:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/25/2012 11:17:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/25/2012 11:17:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/25/2012 11:17:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/25/2012 11:17:00 PM
Surr: 1,2-Dichloroethane-d4	90.8	%REC			80-120	4/25/2012 11:17:00 PM
Surr: 4-Bromofluorobenzene	97.3	%REC			86-115	4/25/2012 11:17:00 PM
Surr: Dibromofluoromethane	108	%REC			80-120	4/25/2012 11:17:00 PM
Surr: Toluene-d8	98.0	%REC			88-110	4/25/2012 11:17:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	31	mg/L		2.5	5	4/21/2012 1:30:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-22A
Client Sample ID:	SW-4	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 4:00:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/24/2012 2:02:00 AM
Arsenic	ND	mg/L		0.00100	0.0100	4/24/2012 2:02:00 AM
Barium	0.0388	mg/L	J	0.00100	0.100	4/24/2012 2:02:00 AM
Beryllium	ND	mg/L		0.00020	0.0010	4/24/2012 2:02:00 AM
Cadmium	ND	mg/L		0.00020	0.0010	4/24/2012 2:02:00 AM
Chromium	ND	mg/L		0.00100	0.0100	4/24/2012 2:02:00 AM
Cobalt	ND	mg/L		0.00100	0.0100	4/24/2012 2:02:00 AM
Copper	0.0019	mg/L	J	0.00100	0.0100	4/24/2012 2:02:00 AM
Lead	0.0004	mg/L	J	0.00020	0.0100	4/24/2012 2:02:00 AM
Nickel	ND	mg/L		0.00200	0.0500	4/24/2012 2:02:00 AM
Selenium	ND	mg/L		0.00100	0.0100	4/24/2012 2:02:00 AM
Silver	ND	mg/L		0.00100	0.0100	4/24/2012 2:02:00 AM
Thallium	ND	mg/L		0.00020	0.0055	4/24/2012 2:02:00 AM
Vanadium	ND	mg/L		0.00100	0.0250	4/24/2012 2:02:00 AM
Zinc	0.0070	mg/L	J	0.00300	0.0100	4/24/2012 2:02:00 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/26/2012 12:23:00 AM
Acrylonitrile	ND	µg/L		4.24	200	4/26/2012 12:23:00 AM
Benzene	ND	µg/L		0.13	1.0	4/26/2012 12:23:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	4/26/2012 12:23:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/26/2012 12:23:00 AM
Bromoform	ND	µg/L		0.40	3.0	4/26/2012 12:23:00 AM
Bromomethane	ND	µg/L		0.50	10	4/26/2012 12:23:00 AM
2-Butanone	ND	µg/L		4.68	100	4/26/2012 12:23:00 AM
Carbon disulfide	ND	µg/L		1.27	100	4/26/2012 12:23:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/26/2012 12:23:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	4/26/2012 12:23:00 AM
Chloroethane	ND	µg/L		0.94	10	4/26/2012 12:23:00 AM
Chloroform	ND	µg/L		0.25	5.0	4/26/2012 12:23:00 AM
Chloromethane	ND	µg/L		0.33	1.0	4/26/2012 12:23:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/26/2012 12:23:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/26/2012 12:23:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/26/2012 12:23:00 AM
Dibromomethane	ND	µg/L		0.29	10	4/26/2012 12:23:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/26/2012 12:23:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/26/2012 12:23:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-22A
Client Sample ID:	SW-4	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 4:00:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/26/2012 12:23:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/26/2012 12:23:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/26/2012 12:23:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/26/2012 12:23:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/26/2012 12:23:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/26/2012 12:23:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/26/2012 12:23:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/26/2012 12:23:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/26/2012 12:23:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	4/26/2012 12:23:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	4/26/2012 12:23:00 AM
Iodomethane	ND	µg/L		3.44	10	4/26/2012 12:23:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	4/26/2012 12:23:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/26/2012 12:23:00 AM
Styrene	ND	µg/L		0.24	1.0	4/26/2012 12:23:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/26/2012 12:23:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/26/2012 12:23:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/26/2012 12:23:00 AM
Toluene	ND	µg/L		0.17	1.0	4/26/2012 12:23:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/26/2012 12:23:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/26/2012 12:23:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	4/26/2012 12:23:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/26/2012 12:23:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/26/2012 12:23:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	4/26/2012 12:23:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	4/26/2012 12:23:00 AM
o-Xylene	ND	µg/L		0.19	1.0	4/26/2012 12:23:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	4/26/2012 12:23:00 AM
Surr: 1,2-Dichloroethane-d4	89.9	%REC			80-120	4/26/2012 12:23:00 AM
Surr: 4-Bromofluorobenzene	95.6	%REC			86-115	4/26/2012 12:23:00 AM
Surr: Dibromofluoromethane	104	%REC			80-120	4/26/2012 12:23:00 AM
Surr: Toluene-d8	101	%REC			88-110	4/26/2012 12:23:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	10	mg/L		2.5	5	4/21/2012 1:30:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-23A
Client Sample ID:	MW-1A DUP	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 10:57:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/24/2012 2:08:00 AM
Arsenic	ND	mg/L		0.00100	0.0100	4/24/2012 2:08:00 AM
Barium	0.0578	mg/L	J	0.00100	0.100	4/24/2012 2:08:00 AM
Beryllium	ND	mg/L		0.00020	0.0010	4/24/2012 2:08:00 AM
Cadmium	ND	mg/L		0.00020	0.0010	4/24/2012 2:08:00 AM
Chromium	ND	mg/L		0.00100	0.0100	4/24/2012 2:08:00 AM
Cobalt	0.0238	mg/L		0.00100	0.0100	4/24/2012 2:08:00 AM
Copper	0.0010	mg/L	J	0.00100	0.0100	4/24/2012 2:08:00 AM
Lead	ND	mg/L		0.00020	0.0100	4/24/2012 2:08:00 AM
Nickel	0.0031	mg/L	J	0.00200	0.0500	4/24/2012 2:08:00 AM
Selenium	ND	mg/L		0.00100	0.0100	4/24/2012 2:08:00 AM
Silver	ND	mg/L		0.00100	0.0100	4/24/2012 2:08:00 AM
Thallium	ND	mg/L		0.00020	0.0055	4/24/2012 2:08:00 AM
Vanadium	ND	mg/L		0.00100	0.0250	4/24/2012 2:08:00 AM
Zinc	0.0037	mg/L	J	0.00300	0.0100	4/24/2012 2:08:00 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/25/2012 6:41:00 AM
Acrylonitrile	ND	µg/L		4.24	200	4/25/2012 6:41:00 AM
Benzene	0.5	µg/L	J	0.13	1.0	4/25/2012 6:41:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	4/25/2012 6:41:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/25/2012 6:41:00 AM
Bromoform	ND	µg/L		0.40	3.0	4/25/2012 6:41:00 AM
Bromomethane	ND	µg/L		0.50	10	4/25/2012 6:41:00 AM
2-Butanone	ND	µg/L		4.68	100	4/25/2012 6:41:00 AM
Carbon disulfide	ND	µg/L		1.27	100	4/25/2012 6:41:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/25/2012 6:41:00 AM
Chlorobenzene	2.6	µg/L	J	0.18	3.0	4/25/2012 6:41:00 AM
Chloroethane	1.0	µg/L	J	0.94	10	4/25/2012 6:41:00 AM
Chloroform	ND	µg/L		0.25	5.0	4/25/2012 6:41:00 AM
Chloromethane	ND	µg/L		0.33	1.0	4/25/2012 6:41:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/25/2012 6:41:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/25/2012 6:41:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/25/2012 6:41:00 AM
Dibromomethane	ND	µg/L		0.29	10	4/25/2012 6:41:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/25/2012 6:41:00 AM
1,4-Dichlorobenzene	3.1	µg/L		0.29	1.0	4/25/2012 6:41:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-23A
Client Sample ID:	MW-1A DUP	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 10:57:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/25/2012 6:41:00 AM
1,1-Dichloroethane	1.1	µg/L	J	0.38	5.0	4/25/2012 6:41:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/25/2012 6:41:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/25/2012 6:41:00 AM
cis-1,2-Dichloroethene	0.5	µg/L	J	0.23	5.0	4/25/2012 6:41:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/25/2012 6:41:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/25/2012 6:41:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 6:41:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 6:41:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	4/25/2012 6:41:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	4/25/2012 6:41:00 AM
Iodomethane	ND	µg/L		3.44	10	4/25/2012 6:41:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	4/25/2012 6:41:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/25/2012 6:41:00 AM
Styrene	ND	µg/L		0.24	1.0	4/25/2012 6:41:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/25/2012 6:41:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/25/2012 6:41:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/25/2012 6:41:00 AM
Toluene	ND	µg/L		0.17	1.0	4/25/2012 6:41:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/25/2012 6:41:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/25/2012 6:41:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	4/25/2012 6:41:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/25/2012 6:41:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/25/2012 6:41:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	4/25/2012 6:41:00 AM
Vinyl chloride	0.4	µg/L	J	0.22	1.0	4/25/2012 6:41:00 AM
o-Xylene	ND	µg/L		0.19	1.0	4/25/2012 6:41:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	4/25/2012 6:41:00 AM
Surr: 1,2-Dichloroethane-d4	89.9	%REC			80-120	4/25/2012 6:41:00 AM
Surr: 4-Bromofluorobenzene	107	%REC			86-115	4/25/2012 6:41:00 AM
Surr: Dibromofluoromethane	102	%REC			80-120	4/25/2012 6:41:00 AM
Surr: Toluene-d8	102	%REC			88-110	4/25/2012 6:41:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	ND	mg/L		2.5	5	4/21/2012 1:30:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-24A
Client Sample ID:	MW-1B DUP	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 11:17:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/24/2012 2:24:00 AM
Arsenic	ND	mg/L		0.00100	0.0100	4/24/2012 2:24:00 AM
Barium	0.0527	mg/L	J	0.00100	0.100	4/24/2012 2:24:00 AM
Beryllium	ND	mg/L		0.00020	0.0010	4/24/2012 2:24:00 AM
Cadmium	ND	mg/L		0.00020	0.0010	4/24/2012 2:24:00 AM
Chromium	ND	mg/L		0.00100	0.0100	4/24/2012 2:24:00 AM
Cobalt	0.0070	mg/L	J	0.00100	0.0100	4/24/2012 2:24:00 AM
Copper	0.0013	mg/L	J	0.00100	0.0100	4/24/2012 2:24:00 AM
Lead	ND	mg/L		0.00020	0.0100	4/24/2012 2:24:00 AM
Nickel	ND	mg/L		0.00200	0.0500	4/24/2012 2:24:00 AM
Selenium	ND	mg/L		0.00100	0.0100	4/24/2012 2:24:00 AM
Silver	ND	mg/L		0.00100	0.0100	4/24/2012 2:24:00 AM
Thallium	ND	mg/L		0.00020	0.0055	4/24/2012 2:24:00 AM
Vanadium	ND	mg/L		0.00100	0.0250	4/24/2012 2:24:00 AM
Zinc	0.0040	mg/L	J	0.00300	0.0100	4/24/2012 2:24:00 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/25/2012 11:50:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/25/2012 11:50:00 PM
Benzene	0.4	µg/L	J	0.13	1.0	4/25/2012 11:50:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/25/2012 11:50:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/25/2012 11:50:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/25/2012 11:50:00 PM
Bromomethane	ND	µg/L		0.50	10	4/25/2012 11:50:00 PM
2-Butanone	ND	µg/L		4.68	100	4/25/2012 11:50:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/25/2012 11:50:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/25/2012 11:50:00 PM
Chlorobenzene	2.3	µg/L	J	0.18	3.0	4/25/2012 11:50:00 PM
Chloroethane	ND	µg/L		0.94	10	4/25/2012 11:50:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/25/2012 11:50:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/25/2012 11:50:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/25/2012 11:50:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/25/2012 11:50:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/25/2012 11:50:00 PM
Dibromomethane	ND	µg/L		0.29	10	4/25/2012 11:50:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/25/2012 11:50:00 PM
1,4-Dichlorobenzene	2.5	µg/L		0.29	1.0	4/25/2012 11:50:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-24A
Client Sample ID:	MW-1B DUP	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 11:17:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/25/2012 11:50:00 PM
1,1-Dichloroethane	1.0	µg/L	J	0.38	5.0	4/25/2012 11:50:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/25/2012 11:50:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/25/2012 11:50:00 PM
cis-1,2-Dichloroethene	0.4	µg/L	J	0.23	5.0	4/25/2012 11:50:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/25/2012 11:50:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/25/2012 11:50:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 11:50:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 11:50:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/25/2012 11:50:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/25/2012 11:50:00 PM
Iodomethane	ND	µg/L		3.44	10	4/25/2012 11:50:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/25/2012 11:50:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/25/2012 11:50:00 PM
Styrene	ND	µg/L		0.24	1.0	4/25/2012 11:50:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/25/2012 11:50:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/25/2012 11:50:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/25/2012 11:50:00 PM
Toluene	ND	µg/L		0.17	1.0	4/25/2012 11:50:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/25/2012 11:50:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/25/2012 11:50:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/25/2012 11:50:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/25/2012 11:50:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/25/2012 11:50:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/25/2012 11:50:00 PM
Vinyl chloride	0.3	µg/L	J	0.22	1.0	4/25/2012 11:50:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/25/2012 11:50:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/25/2012 11:50:00 PM
Surr: 1,2-Dichloroethane-d4	80.3	%REC			80-120	4/25/2012 11:50:00 PM
Surr: 4-Bromofluorobenzene	92.3	%REC			86-115	4/25/2012 11:50:00 PM
Surr: Dibromofluoromethane	104	%REC			80-120	4/25/2012 11:50:00 PM
Surr: Toluene-d8	97.0	%REC			88-110	4/25/2012 11:50:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	4	mg/L	J	2.5	5	4/21/2012 1:30:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-25A
Client Sample ID:	MW-3A DUP	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 1:15:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	ND	mg/L		0.00020	0.0060	4/24/2012 2:40:00 AM
Arsenic	ND	mg/L		0.00100	0.0100	4/24/2012 2:40:00 AM
Barium	0.0493	mg/L	J	0.00100	0.100	4/24/2012 2:40:00 AM
Beryllium	ND	mg/L		0.00020	0.0010	4/24/2012 2:40:00 AM
Cadmium	ND	mg/L		0.00020	0.0010	4/24/2012 2:40:00 AM
Chromium	ND	mg/L		0.00100	0.0100	4/24/2012 2:40:00 AM
Cobalt	ND	mg/L		0.00100	0.0100	4/24/2012 2:40:00 AM
Copper	0.0014	mg/L	J	0.00100	0.0100	4/24/2012 2:40:00 AM
Lead	ND	mg/L		0.00020	0.0100	4/24/2012 2:40:00 AM
Nickel	ND	mg/L		0.00200	0.0500	4/24/2012 2:40:00 AM
Selenium	ND	mg/L		0.00100	0.0100	4/24/2012 2:40:00 AM
Silver	ND	mg/L		0.00100	0.0100	4/24/2012 2:40:00 AM
Thallium	ND	mg/L		0.00020	0.0055	4/24/2012 2:40:00 AM
Vanadium	ND	mg/L		0.00100	0.0250	4/24/2012 2:40:00 AM
Zinc	0.0069	mg/L	J	0.00300	0.0100	4/24/2012 2:40:00 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/25/2012 4:39:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/25/2012 4:39:00 PM
Benzene	ND	µg/L		0.13	1.0	4/25/2012 4:39:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/25/2012 4:39:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/25/2012 4:39:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/25/2012 4:39:00 PM
Bromomethane	ND	µg/L		0.50	10	4/25/2012 4:39:00 PM
2-Butanone	ND	µg/L		4.68	100	4/25/2012 4:39:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/25/2012 4:39:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/25/2012 4:39:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/25/2012 4:39:00 PM
Chloroethane	ND	µg/L		0.94	10	4/25/2012 4:39:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/25/2012 4:39:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/25/2012 4:39:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/25/2012 4:39:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/25/2012 4:39:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/25/2012 4:39:00 PM
Dibromomethane	ND	µg/L		0.29	10	4/25/2012 4:39:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/25/2012 4:39:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/25/2012 4:39:00 PM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-25A
Client Sample ID:	MW-3A DUP	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 1:15:00 PM		
Site ID:	MSW LANDFILL	**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/25/2012 4:39:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/25/2012 4:39:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/25/2012 4:39:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/25/2012 4:39:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/25/2012 4:39:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/25/2012 4:39:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/25/2012 4:39:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 4:39:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 4:39:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/25/2012 4:39:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/25/2012 4:39:00 PM
Iodomethane	ND	µg/L		3.44	10	4/25/2012 4:39:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/25/2012 4:39:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/25/2012 4:39:00 PM
Styrene	ND	µg/L		0.24	1.0	4/25/2012 4:39:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/25/2012 4:39:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/25/2012 4:39:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/25/2012 4:39:00 PM
Toluene	ND	µg/L		0.17	1.0	4/25/2012 4:39:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/25/2012 4:39:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/25/2012 4:39:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/25/2012 4:39:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/25/2012 4:39:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/25/2012 4:39:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/25/2012 4:39:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/25/2012 4:39:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/25/2012 4:39:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/25/2012 4:39:00 PM
Surr: 1,2-Dichloroethane-d4	91.0	%REC			80-120	4/25/2012 4:39:00 PM
Surr: 4-Bromofluorobenzene	95.5	%REC			86-115	4/25/2012 4:39:00 PM
Surr: Dibromofluoromethane	106	%REC			80-120	4/25/2012 4:39:00 PM
Surr: Toluene-d8	99.7	%REC			88-110	4/25/2012 4:39:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	4	mg/L	J	2.5	5	4/21/2012 1:30:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-26A
Client Sample ID:	TRIP BLANK	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 8:30:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	TRIP BLANK		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	4/25/2012 11:27:00 AM
Acrylonitrile	ND	µg/L		4.24	200	4/25/2012 11:27:00 AM
Benzene	ND	µg/L		0.13	1.0	4/25/2012 11:27:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	4/25/2012 11:27:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/25/2012 11:27:00 AM
Bromoform	ND	µg/L		0.40	3.0	4/25/2012 11:27:00 AM
Bromomethane	ND	µg/L		0.50	10	4/25/2012 11:27:00 AM
2-Butanone	ND	µg/L		4.68	100	4/25/2012 11:27:00 AM
Carbon disulfide	ND	µg/L		1.27	100	4/25/2012 11:27:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/25/2012 11:27:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	4/25/2012 11:27:00 AM
Chloroethane	ND	µg/L		0.94	10	4/25/2012 11:27:00 AM
Chloroform	ND	µg/L		0.25	5.0	4/25/2012 11:27:00 AM
Chloromethane	ND	µg/L		0.33	1.0	4/25/2012 11:27:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/25/2012 11:27:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/25/2012 11:27:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/25/2012 11:27:00 AM
Dibromomethane	ND	µg/L		0.29	10	4/25/2012 11:27:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/25/2012 11:27:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/25/2012 11:27:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/25/2012 11:27:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/25/2012 11:27:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/25/2012 11:27:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/25/2012 11:27:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/25/2012 11:27:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/25/2012 11:27:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/25/2012 11:27:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 11:27:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/25/2012 11:27:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	4/25/2012 11:27:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	4/25/2012 11:27:00 AM
Iodomethane	ND	µg/L		3.44	10	4/25/2012 11:27:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	4/25/2012 11:27:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/25/2012 11:27:00 AM
Styrene	ND	µg/L		0.24	1.0	4/25/2012 11:27:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/25/2012 11:27:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/25/2012 11:27:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *01-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J43	**Lab ID**	1204J43-26A
Client Sample ID:	TRIP BLANK	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 8:30:00 AM		
Site ID:	MSW LANDFILL	**Matrix:**	TRIP BLANK		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Tetrachloroethene	ND	µg/L		0.20	1.0	4/25/2012 11:27:00 AM
Toluene	ND	µg/L		0.17	1.0	4/25/2012 11:27:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/25/2012 11:27:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/25/2012 11:27:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	4/25/2012 11:27:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/25/2012 11:27:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/25/2012 11:27:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	4/25/2012 11:27:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	4/25/2012 11:27:00 AM
o-Xylene	ND	µg/L		0.19	1.0	4/25/2012 11:27:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	4/25/2012 11:27:00 AM
Surr: 1,2-Dichloroethane-d4	88.0	%REC			80-120	4/25/2012 11:27:00 AM
Surr: 4-Bromofluorobenzene	99.0	%REC			86-115	4/25/2012 11:27:00 AM
Surr: Dibromofluoromethane	104	%REC			80-120	4/25/2012 11:27:00 AM
Surr: Toluene-d8	102	%REC			88-110	4/25/2012 11:27:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CHAIN OF CUSTODY RECORD

REIC

Research Environmental & Industrial Consultants, Inc.

MAIN LABORATORY & CORPORATE HEADQUARTERS:
P.O. Box 286 • 225 Industrial Park Rd, Beaver, WV 25813
800-999-0105 • 304-255-2500 • www.reiclabs.com

MID-OHIO VALLEY Service Center
209 15th Street
Ashland, KY 41101
606-393-5027

SHENANDOAH Service Center
1557 Commerce Rd., Ste. 201
Verona, VA 24482
540-248-0183

ROANOKE Service Center
3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

v5-1109 REIC use ONLY CLIENT ID MAC 006 DATE 4-19-12 SHEET 1OF 3

Client: MACON CO DEPT OF SWM PO #
Contact Person CHRIS STAHL Phone 828-439-2100
Address 109 SIERRA DRIVE City FRANKLIN State NC Zip 28734
Billing Address (if different)
City FRANKLIN State NC Zip 28734
Site ID & State MSW LANDFILL Project ID 1 ST SEMI 2012 Sampler Mcbride / Farley / Shirley

SAMPLE LOG & ANALYSIS REQUEST

TURNAROUND TIME: ◉ NORMAL ○ RUSH TURNAROUND: ○ 5 DAY ○ 3 DAY ○ 2 DAY ○ 1 DAY
*Rush work needs prior laboratory approval and will incur additional charges

ANALYSIS & METHOD REQUESTED: NC APPENDIX 1; TSS

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	1/2	0							
MW-1A	6	4-19-12 / 1057	GWater	Grab	✓	✓							
MW-1B	6	1117	GWater	Grab	✓	✓							
MW-1D	6	1125	GWater	Grab	✓	✓							
MW-2	6	1210	GWater	Grab	✓	✓							
MW-3A	6	1315	GWater	Grab	✓	✓							
MW-5D	6	1345	GWater	Grab	✓	✓							
MW-10	6	1515	GWater	Grab	✓	✓							
MW-14	6	1615	GWater	Grab	✓	✓							
MW-15	6	1545	GWater	Grab	✓	✓							

ENTER PRESERVATIVE CODE:
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide
6 Zinc Acetate
7 EDTA

COMMENTS:
ANALYZE DIS METALS FOR ANY TOTAL METAL DETECTIONS

All analytical requests are subject to REIC's Standard Terms and Conditions.

Temperature at arrival: 1 °C ICED? Y ✓ N

1 Relinquished by (signature)	4-20-12 0730	2 Relinquished by (signature)	Date/Time	3 Relinquished by (signature)	Date/Time
Received by (signature)	4-20-12 0730	Received by (signature)	Date/Time	Received by (signature)	Date/Time

CHAIN OF CUSTODY RECORD

REIC

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ROANOKE Service Center
3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

v5-1109 REIC use ONLY CLIENT ID MAC 006 DATE 4-19-12 SHEET 2OF 3

Client: MACON CO DEPT OF SWM PO #
Contact Person CHRIS STAHL Phone 828-439-2100
Address 109 SIERRA DRIVE City FRANKLIN State NC Zip 28734
Billing Address (if different)
City FRANKLIN State NC Zip 28734
Site ID & State MSW LANDFILL Project ID 1 ST SEMI 2012 Sampler Mcbride / Farley / Shirley

SAMPLE LOG & ANALYSIS REQUEST

TURNAROUND TIME: (•) NORMAL — RUSH TURNAROUND: ( ) 5 DAY ( ) 3 DAY ( ) 2 DAY ( ) 1 DAY

*Rush work needs prior laboratory approval and will incur additional charges

ANALYSIS & METHOD REQUESTED: NC APPENDIX 1; TSS

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	1/2	0							
MW-17	6	4-19-12 / 1417	GWater	Grab	✓	✓							
MW-18	6	1438	GWater	Grab	✓	✓							
MW-19	6	0835	GWater	Grab	✓	✓							
MW-19A	6	1137	GWater	Grab	✓	✓							
MW-20	6	0901	GWater	Grab	✓	✓							
MW-21	6	0920	GWater	Grab	✓	✓							
MW-22	6	0954	GWater	Grab	✓	✓							
MW-22A	6	0958	GWater	Grab	✓	✓							
MW-23	6	1035	GWater	Grab	✓	✓							

ENTER PRESERVATIVE CODE:
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide
6 Zinc Acetate
7 EDTA

COMMENTS:
ANALYZE DIS METALS FOR ANY TOTAL METAL DETECTIONS

All analytical requests are subject to REIC's Standard Terms and Conditions.

Temperature at arrival: / °C ICED? Y___ N___

1		2		3	
Relinquished by (signature) R. Farley	Date/Time 4-20-12 0730	Relinquished by (signature)	Date/Time	Relinquished by (signature)	Date/Time
Received by (signature)	Date/Time 4-20-12 0730	Received by (signature)	Date/Time	Received by (signature)	Date/Time

CHAIN OF CUSTODY RECORD

v5-1109 REIC use ONLY CLIENT ID MAC 006 DATE 4-19-12 SHEET 3OF 3

REIC
Research Environmental & Industrial Consultants, Inc.
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Client: MACON CO DEPT OF SWM PO #
Contact Person CHRIS STAHL Phone 828-439-2100
Address 109 SIERRA DRIVE City FRANKLIN State NC Zip 28734
Billing Address (if different)
City FRANKLIN State NC Zip 28734
Site ID & State MSW LANDFILL Project ID 1 ST SEMI 2012 Sampler Mcbride / Farley / Shirley

SAMPLE LOG & ANALYSIS REQUEST

TURNAROUND TIME: ◉ NORMAL — RUSH TURNAROUND: ○ 5 DAY ○ 3 DAY ○ 2 DAY ○ 1 DAY

*Rush work needs prior laboratory approval and will incur additional charges

ANALYSIS & METHOD REQUESTED: NC APPENDIX 1; TSS

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	1/2	0							
SW-1	6	4-19-12 / 1205	GWater	Grab	✓	✓							
SW-2	6	0830	GWater	Grab	✓	✓							
SW-3	6	1635	GWater	Grab	✓	✓							
SW-4	6	1600	GWater	Grab	✓	✓							
MW- 1A DUPLICATE	18	1057	GWater	Grab	✓	✓							
MW- 1B DUPLICATE	18	1117	GWater	Grab	✓	✓							
MW- 3A DUPLICATE	18	1315	GWater	Grab	✓	✓							
TRIP BLANK #2	1 VOA		Choose	Choose			✓						
			Choose	Choose									

ENTER PRESERVATIVE CODE:
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide
6 Zinc Acetate
7 EDTA

COMMENTS:
ANALYZE DIS METALS FOR ANY TOTAL METAL DETECTIONS

All analytical requests are subject to REIC's Standard Terms and Conditions.

Temperature at arrival: 1.1 °C ICED? Y ✓ N

1		2		3	
R. Farley (Relinquished by (signature))	4-20-12 0730 (Date/Time)	(Relinquished by (signature))	(Date/Time)	(Relinquished by (signature))	(Date/Time)
(Received by (signature))	4-20-12 0730 (Date/Time)	(Received by (signature))	(Date/Time)	(Received by (signature))	(Date/Time)

Macon County Municipal Solid Waste (MSW) Landfill

Macon County, North Carolina

Permit Number: 57-03

MSW Leachate
Laboratory Results
and
Chain-of-Custody Record

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572

3029-C Peters Creek Road
Roanoke, VA 24019
TEL: 540.777.1276
FAX: 540.400.8508

101 17th Street
Ashland, KY 41101
TEL: 606.393.5027

1557 Commerce Road, Suite 201
Verona, VA 24482
TEL: 540.248.0183

Improving the environment, one client at a time...

May 03, 2012

Mr. Chris Stahl
MACON COUNTY SOLID WASTE MANAGEMENT
5 WEST MAIN ST
FRANKLIN NC 28734

TEL: (828) 349-2100
FAX (828) 349-2185

RE: 1ST SEMI 2012

Order No.: 1204J56

Dear Mr. Chris Stahl:

REI Consultants, Inc. received 2 sample(s) on 4/20/2012 for the analyses presented in the following report.

Please note two changes you may see on your report.

- Results for "Dissolved" parameters will be shown under a separate sample ID, rather than as a separate analysis under the same sample ID. The sample ID for "Dissolved" parameters will include "Field Filtered" or "Lab Filtered", as appropriate.
- Metals results will no longer be identified as "Total" or "Total Recoverable". The methods have not been changed, only their appearance on the report.

If you have any questions regarding these results, please do not hesitate to call.

Sincerely,

Michelle Ellison

Michelle Ellison

ACCREDITED IN ACCORDANCE WITH nelac

REI Consultants, Inc. Analytical Results

Date: *03-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J56	**Lab ID**	1204J56-01A
Client Sample ID:	LEACHATE	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 11:45:00 AM		
Site ID:	MSW LEACHATE	**Matrix:**	LEACHATE		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Antimony	0.0010	mg/L	J	0.00020	0.0060	4/24/2012 4:18:00 AM
Arsenic	0.0081	mg/L	J	0.00100	0.0100	4/24/2012 4:18:00 AM
Barium	0.645	mg/L		0.00100	0.100	4/24/2012 4:18:00 AM
Beryllium	ND	mg/L		0.00020	0.0010	4/24/2012 4:18:00 AM
Cadmium	ND	mg/L		0.00020	0.0010	4/24/2012 4:18:00 AM
Chromium	0.0250	mg/L		0.00100	0.0100	4/24/2012 4:18:00 AM
Cobalt	0.0450	mg/L		0.00100	0.0100	4/24/2012 4:18:00 AM
Copper	0.0018	mg/L	J	0.00100	0.0100	4/24/2012 4:18:00 AM
Lead	0.0006	mg/L	J	0.00020	0.0100	4/24/2012 4:18:00 AM
Nickel	0.138	mg/L		0.00200	0.0500	4/24/2012 4:18:00 AM
Selenium	0.0139	mg/L		0.00100	0.0100	4/24/2012 4:18:00 AM
Silver	ND	mg/L		0.00100	0.0100	4/24/2012 4:18:00 AM
Thallium	ND	mg/L		0.00020	0.0055	4/24/2012 4:18:00 AM
Vanadium	0.0179	mg/L	J	0.00100	0.0250	4/24/2012 4:18:00 AM
Zinc	0.0084	mg/L	J	0.00300	0.0100	4/24/2012 4:18:00 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	18.7	µg/L	J	4.88	100	4/26/2012 3:25:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/26/2012 3:25:00 PM
Benzene	ND	µg/L		0.13	1.0	4/26/2012 3:25:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/26/2012 3:25:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/26/2012 3:25:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/26/2012 3:25:00 PM
Bromomethane	ND	µg/L		0.50	10	4/26/2012 3:25:00 PM
2-Butanone	ND	µg/L		4.68	100	4/26/2012 3:25:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/26/2012 3:25:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/26/2012 3:25:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/26/2012 3:25:00 PM
Chloroethane	ND	µg/L		0.94	10	4/26/2012 3:25:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/26/2012 3:25:00 PM
Chloromethane	0.5	µg/L	J	0.33	1.0	4/26/2012 3:25:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/26/2012 3:25:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/26/2012 3:25:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/26/2012 3:25:00 PM
Dibromomethane	ND	µg/L		0.29	10	4/26/2012 3:25:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/26/2012 3:25:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/26/2012 3:25:00 PM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *03-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J56	**Lab ID**	1204J56-01A
Client Sample ID:	LEACHATE	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 11:45:00 AM		
Site ID:	MSW LEACHATE	**Matrix:**	LEACHATE		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/26/2012 3:25:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/26/2012 3:25:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/26/2012 3:25:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/26/2012 3:25:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/26/2012 3:25:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/26/2012 3:25:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/26/2012 3:25:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/26/2012 3:25:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/26/2012 3:25:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/26/2012 3:25:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/26/2012 3:25:00 PM
Iodomethane	ND	µg/L		3.44	10	4/26/2012 3:25:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/26/2012 3:25:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/26/2012 3:25:00 PM
Styrene	ND	µg/L		0.24	1.0	4/26/2012 3:25:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/26/2012 3:25:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/26/2012 3:25:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	4/26/2012 3:25:00 PM
Toluene	ND	µg/L		0.17	1.0	4/26/2012 3:25:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/26/2012 3:25:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/26/2012 3:25:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/26/2012 3:25:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/26/2012 3:25:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/26/2012 3:25:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/26/2012 3:25:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/26/2012 3:25:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/26/2012 3:25:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/26/2012 3:25:00 PM
Surr: 1,2-Dichloroethane-d4	96.2	%REC			80-120	4/26/2012 3:25:00 PM
Surr: 4-Bromofluorobenzene	101	%REC			86-115	4/26/2012 3:25:00 PM
Surr: Dibromofluoromethane	102	%REC			80-120	4/26/2012 3:25:00 PM
Surr: Toluene-d8	98.3	%REC			88-110	4/26/2012 3:25:00 PM
BOD, 5 DAY, 20°C			**SM5210 B**			Analyst: **MO**
Biochemical Oxygen Demand	22	mg/L		2.0	5	4/20/2012 3:38:00 PM
CHEMICAL OXYGEN DEMAND			**E410.4**			Analyst: **DSD**
Chemical Oxygen Demand	514	mg/L		20.0	50	4/24/2012 1:30:00 PM

Key:

MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *03-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J56	**Lab ID**	1204J56-01A
Client Sample ID:	LEACHATE	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012 11:45:00 AM		
Site ID:	MSW LEACHATE	**Matrix:**	LEACHATE		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY			**E300.0**			Analyst: **CF**
Nitrogen, Nitrate	0.25	mg/L		0.020	0.10	4/20/2012 12:52:00 PM
Orthophosphate (As P)	ND	mg/L		0.050	0.10	4/20/2012 12:52:00 PM
ANIONS BY ION CHROMATOGRAPHY			**E300.0**			Analyst: **CF**
Sulfate	13.5	mg/L		1.00	5.00	4/20/2012 12:52:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	31	mg/L		5.0	10	4/21/2012 2:00:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *03-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J56	**Lab ID**	1204J56-02A
Client Sample ID:	TRIP BLANK	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012		
Site ID:	MSW LEACHATE	**Matrix:**	TRIP BLANK		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	6.1	µg/L	J	4.88	100	4/30/2012 1:35:00 PM
Acrylonitrile	ND	µg/L		4.24	200	4/30/2012 1:35:00 PM
Benzene	ND	µg/L		0.13	1.0	4/30/2012 1:35:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	4/30/2012 1:35:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	4/30/2012 1:35:00 PM
Bromoform	ND	µg/L		0.40	3.0	4/30/2012 1:35:00 PM
Bromomethane	ND	µg/L		0.50	10	4/30/2012 1:35:00 PM
2-Butanone	ND	µg/L		4.68	100	4/30/2012 1:35:00 PM
Carbon disulfide	ND	µg/L		1.27	100	4/30/2012 1:35:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	4/30/2012 1:35:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	4/30/2012 1:35:00 PM
Chloroethane	ND	µg/L		0.94	10	4/30/2012 1:35:00 PM
Chloroform	ND	µg/L		0.25	5.0	4/30/2012 1:35:00 PM
Chloromethane	ND	µg/L		0.33	1.0	4/30/2012 1:35:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	4/30/2012 1:35:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	4/30/2012 1:35:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	4/30/2012 1:35:00 PM
Dibromomethane	ND	µg/L		0.29	10	4/30/2012 1:35:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	4/30/2012 1:35:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	4/30/2012 1:35:00 PM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	4/30/2012 1:35:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	4/30/2012 1:35:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	4/30/2012 1:35:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	4/30/2012 1:35:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	4/30/2012 1:35:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	4/30/2012 1:35:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	4/30/2012 1:35:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/30/2012 1:35:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	4/30/2012 1:35:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	4/30/2012 1:35:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	4/30/2012 1:35:00 PM
Iodomethane	ND	µg/L		3.44	10	4/30/2012 1:35:00 PM
Methylene chloride	ND	µg/L		0.54	1.0	4/30/2012 1:35:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	4/30/2012 1:35:00 PM
Styrene	ND	µg/L		0.24	1.0	4/30/2012 1:35:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	4/30/2012 1:35:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	4/30/2012 1:35:00 PM

Key:

MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *03-May-12*

CLIENT:	MACON COUNTY SOLID WASTE MANAG	**WorkOrder:**	1204J56	**Lab ID**	1204J56-02A
Client Sample ID:	TRIP BLANK	**DateReceived:**	4/20/2012		
Project:	1ST SEMI 2012	**Collection Date:**	4/19/2012		
Site ID:	MSW LEACHATE	**Matrix:**	TRIP BLANK		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Tetrachloroethene	ND	µg/L		0.20	1.0	4/30/2012 1:35:00 PM
Toluene	ND	µg/L		0.17	1.0	4/30/2012 1:35:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	4/30/2012 1:35:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	4/30/2012 1:35:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	4/30/2012 1:35:00 PM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	4/30/2012 1:35:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	4/30/2012 1:35:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	4/30/2012 1:35:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	4/30/2012 1:35:00 PM
o-Xylene	ND	µg/L		0.19	1.0	4/30/2012 1:35:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	4/30/2012 1:35:00 PM
Surr: 1,2-Dichloroethane-d4	101	%REC			80-120	4/30/2012 1:35:00 PM
Surr: 4-Bromofluorobenzene	97.4	%REC			86-115	4/30/2012 1:35:00 PM
Surr: Dibromofluoromethane	115	%REC			80-120	4/30/2012 1:35:00 PM
Surr: Toluene-d8	97.6	%REC			88-110	4/30/2012 1:35:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
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	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CHAIN OF CUSTODY RECORD

v5-1109 REIC use ONLY CLIENT ID MAC 006 DATE 4-19-12 SHEET ____

REIC
Research Environmental & Industrial Consultants, Inc.
MAIN LABORATORY & CORPORATE HEADQUARTERS:
P.O. Box 286 • 225 Industrial Park Rd, Beaver, WV 25813
800-999-0105 • 304-255-2500 • www.reiclabs.com

MID-OHIO VALLEY Service Center
209 15th Street
Ashland, KY 41101
606-393-5027

SHENANDOAH Service Center
1557 Commerce Rd., Ste. 201
Verona, VA 24482
540-248-0183

ROANOKE Service Center
3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

Client: MACON CO DEPT OF SWM PO # ____
Contact Person CHRIS STAHL Phone 828-439-2100
Address 109 SIERRA DRIVE City FRANKLIN State NC Zip 28734
Billing Address (if different) ____
City FRANKLIN State NC Zip 28734
Site ID & State MSW LEACHATE Project ID 1 ST SEMI 2012 Sampler Mcbride / Farley / Shirley

SAMPLE LOG & ANALYSIS REQUEST

TURNAROUND TIME
(•) NORMAL
RUSH TURNAROUND ( ) 5 DAY ( ) 3 DAY ( ) 2 DAY ( ) 1 DAY
*Rush work needs prior laboratory approval and will incur additional charges

ANALYSIS & METHOD REQUESTED: BOD, NITRATE, SULFATE, NC APPENDIX 1 VOL, METALS, COD, ORTHOPHOSPHATE

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	0	0	0	1	2	3	3		
LEACHATE	8	4-19-12 / 1145	GWater	Grab	✓	✓	✓	✓	✓	✓	✓		
			Choose	Choose									
			Choose	Choose									
			Choose	Choose									
			Choose	Choose									
			Choose	Choose									
			Choose	Choose									
			Choose	Choose									
			Choose	Choose									

ENTER PRESERVATIVE CODE:
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide
6 Zinc Acetate
7 EDTA

COMMENTS:

All analytical requests are subject to REIC's Standard Terms and Conditions.

Temperature at arrival: 1.5 °C ICED? Y ✓ N ____

1		2		3	
Relinquished by (signature)	Date/Time 4-20-12 0730	Relinquished by (signature)	Date/Time	Relinquished by (signature)	Date/Time
Received by (signature)	Date/Time 4-20-12 0730	Received by (signature)	Date/Time	Received by (signature)	Date/Time

Macon County Municipal Solid Waste (MSW) Landfill

Macon County, North Carolina

Permit Number: 57-03

Appendix D:

Historical Analytical Laboratory Results

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-1A

VOCs	NC 2L	Feb-1995	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	May-1998	Oct-1998	Apr-1999	Oct-1999	Apr-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003	Oct-2003	Apr-2004
1,1-Dichloroethane	70	*	*	*	*	*	*	*	*	*	*	*	*	2.3	2.9	4.7	3.9	*	7.6	8.8	6.9
1,4-Dichlorobenzene	1.4	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	2.2	*	*	*
Acetone	700	*	*	*	*	*	*	19	*	*	*	*	*	*	*	*	*	*	*	*	*
Benzene	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.4	1.6	2.4	*	*	*
Carbon Disulfide	700	*	*	*	*	*	*	*	*	10.8	6.3	72.8	3.5	*	*	*	*	8	*	*	*
Chlorobenzene	50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.4	1.1	2.2	*	*	5.2
Chloroethane	2800	*	*	*	*	*	*	*	*	*	*	*	*	3.1	5.9	3.1	2.9	4.1	*	*	*
cis-1,2-Dichloroethene	70	*	*	*	*	*	*	*	*	*	*	*	*	1.4	1.2	1.8	1.8	1.9	*	*	*
Ethylbenzene	550	*	*	*	*	*	*	*	*	*	*	*	*	*	6.4	5.8	*	*	*	*	*
Methylene Chloride	4.6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.8	*	*
Vinyl Chloride	0.015	*	*	*	*	*	*	*	*	*	*	*	*	*	1.1	1.7	1.8	2.9	*	*	*
Xylenes, Total	530	*	*	*	*	*	*	*	*	*	*	*	*	6.3	8.2	13	12	9.2	*	*	*
METALS	**NC 2L**	**Feb-1995**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**May-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**Apr-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**	**Apr-2003**	**Oct-2003**	**Apr-2004**
Arsenic	50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	39	42	5.2	*	*
Barium	2000	*	*	*	*	88	*	*	12	*	12	13	17	21	27	34	*	*	750	62	47
Cadmium	1.75	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.2	*
Chromium	50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	64	*	*
Cobalt	NL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	35	*	*
Copper	1000	*	*	*	*	17	*	*	*	*	*	*	*	*	*	*	*	*	59	*	*
Lead	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	15	*	*	81	*	*
Nickel	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	29	*	*
Selenium	50	*	*	*	*	*	*	*	*	*	*	*	*	7.9	*	*	*	*	6.4	5.9	*
Vanadium	NL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	120	*	*
Zinc	1050	13	22	*	35	39	10	*	24	43	*	25	*	11	*	21	*	10	210	*	*

NOTES:

1. * - Constituent did not exceed laboratory Practical Quantitation (PQL) Limit or Solid Waste Section Limit (SWSL).
2. NS - Location Not Sampled
3. NL - Constituent does not have a NC2L Standard
4. Constituent that exceed the NC2L Standard are Highlighed in Red
5. DRY - Well was dry during sampling event
6. All Constituents measured in parts per billions (ppb)
7. Only compounds detected above the laboratory PQL or SWSL are listed
8. N/A - Not Applicable

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-1A

VOCs	NC 2L	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	SWSL	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011
1,1-Dichloroethane	70	7.6	6.1	7.1	5.6	6.4	5	*	*	*	3.8	*	*	7	5	*	*	*	*
1,4-Dichlorobenzene	1.4	6.0	*	6.7	5.8	6.5	1	5.4	5.9	4.2	6.3	3.2	4.6	6	1	3.6	5.2	3.2	4.3
Acetone	700	*	*	*	*	*	100	*	*	*	*	*	*	6000	100	*	*	*	*
Benzene	1	4.2	3.5	3.8	2.5	2.1	1	2.3	2.2	1.8	1.4	1.1	*	1	1	*	*	*	*
Carbon Disulfide	700	*	*	*	*	*	100	*	*	*	*	*	*	700	100	*	*	*	*
Chlorobenzene	50	5.3	*	5.6	*	5.3	3	4.6	5.1	3.5	4.9	*	3.2	50	3	*	4.0	*	3.5
Chloroethane	2800	*	*	5.4	*	*	10	*	*	*	1.8	*	*	3000	10	*	*	*	*
cis-1,2-Dichloroethene	70	*	*	*	*	*	5	*	*	*	1.1	*	*	70	5	*	*	*	*
Ethylbenzene	550	*	*	*	*	*	1	*	*	*	*	*	*	600	1	*	*	*	*
Methylene Chloride	4.6	*	*	*	*	*	1	*	*	*	*	*	*	5	1	*	*	*	*
Vinyl Chloride	0.015	3.9	3	4.6	2.8	2.7	1	2.9	2.2	1.8	1.8	1.3	1.3	0.03	1	1.2	*	*	*
Xylenes, Total	530	*	*	*	*	*	3	*	*	*	*	*	*	500	5	*	*	*	*
METALS	**NC 2L**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**SWSL**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**
Arsenic	50	*	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*	*	*
Barium	2000	*	*	*	*	*	100	*	*	*	*	*	*	700	100	*	*	*	*
Cadmium	1.75	*	*	*	*	*	1	*	*	*	*	*	*	2	1	*	*	*	*
Chromium	50	*	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*	*	*
Cobalt	NL	*	*	*	*	*	10	*	12.5	12.4	21.5	17.8	19.7	NL	10	25.3	26.6	22.7	25.1
Copper	1000	*	*	*	*	*	10	*	*	*	*	*	*	1000	10	*	*	*	*
Lead	15	*	*	*	*	*	10	*	*	*	*	*	*	15	10	*	*	*	*
Nickel	100	*	*	*	*	*	50	*	*	*	*	*	*	100	50	*	*	*	*
Selenium	50	*	*	*	*	*	10	*	*	*	*	*	*	20	10	*	*	*	*
Vanadium	NL	*	*	*	*	*	20	*	*	*	*	*	*	NL	25	*	*	*	*
Zinc	1050	*	*	*	*	*	10	21.6	29.8	16.4	11.4	*	10.3	1000	10	*	*	*	*

NOTES:

1. * - Constituent did not exceed laboratory Practical Quantitation (PQL) Limit or Solid Waste Section Limit (SWSL).
2. NS - Location Not Sampled
3. NL - Constituent does not have a NC2L Standard
4. Constituent that exceed the NC2L Standard are Highlighed in Red
5. DRY - Well was dry during sampling event
6. All Constituents measured in parts per billions (ppb)
7. Only compounds detected above the laboratory PQL or SWSL are listed
8. N/A - Not Applicable

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-1A

VOCs	NC 2L	SWSL	Apr-2012
1,1-Dichloroethane	7	5	*
1,4-Dichlorobenzene	6	1	3.0
Acetone	6000	100	*
Benzene	1	1	*
Carbon Disulfide	700	100	*
Chlorobenzene	50	3	*
Chloroethane	3000	10	*
cis-1,2-Dichloroethene	70	5	*
Ethylbenzene	600	1	*
Methylene Chloride	5	1	*
Vinyl Chloride	0.03	1	*
Xylenes, Total	500	5	*
METALS	**NC 2L**	**SWSL**	**Apr-2012**
Arsenic	10	10	*
Barium	700	100	*
Cadmium	2	1	*
Chromium	10	10	*
Cobalt	1	10	**20.9**
Copper	1000	10	*
Lead	15	10	*
Nickel	100	50	*
Selenium	20	10	*
Vanadium	0.3	25	*
Zinc	1000	10	*

NOTES:

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2. **NS - Location Not Sampled**
3. **NL - Constituent does not have a NC2L Standard**
4. **Constituent that exceed the NC2L Standard are Highlighed in Red**
5. **DRY - Well was dry during sampling event**
6. **All Constituents measured in parts per billions (ppb)**
7. **Only compounds detected above the laboratory PQL or SWSL are listed**
8. **N/A - Not Applicable**

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-1B

VOCs	NC 2L	Feb-1995	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	May-1998	Oct-1998	Apr-1999	Oct-1999	Apr-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003	Oct-2003	Apr-2004
1,1-Dichloroethane	70	*	*	*	*	*	*	*	*	*	*	*	*	23	2.4	3.3	3.5	4.4	5.3	12	6.5
1,4-Dichlorobenzene	1.4	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.2	*	6.4	*
Benzene	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	1.3	1.7	*	5.2	*
Carbon Disulfide	700	*	*	*	*	*	*	*	*	3.3	4.2	3.8	3.4	*	*	*	*	17	*	*	*
Chlorobenzene	50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.4	*	6.3	*
Chloroethane	2800	*	*	*	*	*	*	*	*	*	*	*	*	1.9	4.4	2	2.5	2.3	*	*	*
cis-1,2-Dichloroethene	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1.3	1.4	1.4	*	*	*
Ethylbenzene	550	*	*	*	*	*	*	*	*	*	*	*	*	*	*	3.7	*	1.2	*	*	*
Methylene Chloride	4.6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	6.1	*
Vinyl Chloride	0.015	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1	1.4	1.8	*	5.5	*
Xylenes, Total	530	*	*	*	*	*	*	*	*	*	*	*	*	*	3.6	8.9	6.2	5.3	6	8.4	*
METALS	**NC 2L**	**Feb-1995**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**May-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**Apr-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**	**Apr-2003**	**Oct-2003**	**Apr-2004**
Antimony	NL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	32	44	5.9	*	*
Barium	2000	*	*	*	123	104	*	*	17	17	17	17	20	23	21	30	*	*	61	65	52
Cadmium	1.75	*	*	*	*	17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Chromium	50	*	*	*	*	*	*	9	*	*	*	*	*	*	*	*	*	*	3.1	*	*
Cobalt	NL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.5	5
Copper	1000	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.6	3.7	2.6
Lead	15	*	*	*	*	*	3	4	*	*	*	*	*	*	*	13	*	*	*	*	*
Selenium	50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	5.3	*	*	*	7.3	*
Zinc	1050	*	*	*	19	32	*	*	20	*	*	*	*	11	36	12	*	14	10	12	*

NOTES:

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3. NL - Constituent does not have a NC2L Standard
4. Constituent that exceed the NC2L Standard are Highlighed in Red
5. DRY - Well was dry during sampling event
6. All Constituents measured in parts per billions (ppb)
7. Only compounds detected above the laboratory PQL or SWSL are listed
8. N/A - Not Applicable

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-1B

VOCs	NC 2L	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	SWSL	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
1,1-Dichloroethane	70	5.8	5.8	6.7	5.3	6.4	5	*	*	*	3.2	*	*	7	5	*	*	*	*	*
1,4-Dichlorobenzene	1.4	*	*	5.7	5.3	6.0	1	4.9	5.7	4.4	5.0	3.6	4.1	6	1	3	4.2	2.7	4.0	2.7
Benzene	1	3.1	3.2	3.6	2.8	3.0	1	2.2	2.3	1.9	1.5	1.2	*	1	1	*	*	*	*	*
Carbon Disulfide	700	*	*	*	*	*	100	*	*	*	*	*	*	700	100	*	*	*	*	*
Chlorobenzene	50	*	*	5.0	*	5.1	3	4.0	5.0	3.6	3.9	*	*	50	3	*	3.1	*	*	*
Chloroethane	2800	*	*	*	*	*	10	*	*	*	1.3	*	*	3000	10	*	*	*	*	*
cis-1,2-Dichloroethene	70	*	*	*	*	*	5	*	*	*	*	*	*	70	5	*	*	*	*	*
Ethylbenzene	550	*	*	*	*	*	1	*	*	*	*	*	*	600	1	*	*	*	*	*
Methylene Chloride	4.6	*	*	*	*	*	1	*	*	*	*	*	*	5	1	*	*	*	*	*
Vinyl Chloride	0.015	2.7	3.0	3.9	2.9	3.0	1	2.7	2.3	1.8	1.6	1.3	1.3	0.03	1	1.1	*	*	*	*
Xylenes, Total	530	*	*	*	*	*	3	*	*	*	*	*	*	500	5	*	*	*	*	*
METALS	**NC 2L**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**SWSL**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**
Antimony	NL	*	*	*	*	*	6	*	*	*	*	*	*	1	6	*	*	*	*	*
Barium	2000	*	*	*	*	*	100	*	*	*	*	*	*	700	100	*	*	*	*	*
Cadmium	1.75	*	*	*	*	*	1	*	*	*	*	*	*	2	1	*	*	*	*	*
Chromium	50	*	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*	*	*	*
Cobalt	NL	*	*	*	*	*	10	*	*	*	14.7	*	*	1	10	*	*	*	13.9	*
Copper	1000	*	*	*	*	*	10	*	*	*	*	*	*	1000	10	*	*	*	*	*
Lead	15	*	*	*	*	*	10	*	*	*	*	*	*	15	10	*	*	*	*	*
Selenium	50	*	*	*	*	*	10	*	*	*	*	*	*	20	10	*	*	*	*	*
Zinc	1050	*	*	*	*	*	10	10.1	18.7	*	*	*	*	1000	10	*	*	*	*	*

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4. Constituent that exceed the NC2L Standard are Highlighed in Red
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8. N/A - Not Applicable

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-1D

VOCs	NC 2L	SWSL	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
1,1-Dichloroethane	70	5	*	5.7	3.2	5.3	5.8	7	5	*	*	*	*	*
1,4-Dichlorobenzene	1.4	1	5.9	*	2.2	2.6	4.4	6	1	3.9	3.4	3.4	3.3	3.4
Benzene	1	1	2.2	2.6	1.5	2.6	2.7	1	1	1.4	*	*	*	*
Carbon Disulfide	700	100	*	*	*	*	*	700	100	*	*	*	*	*
Chlorobenzene	50	3	5.1	*	*	3.0	3.7	50	3	3.1	*	*	*	*
Chloroethane	2800	10	*	*	2.3	*	*	3000	10	*	*	*	*	*
cis-1,2-Dichloroethene	70	5	*	*	*	*	*	70	5	*	*	*	*	*
Ethylbenzene	550	1	*	*	*	*	*	600	1	*	*	*	*	*
Methylene Chloride	4.6	1	*	*	*	*	*	5	1	*	*	*	*	*
Vinyl Chloride	0.015	1	2.2	*	*	*	*	0.03	1	*	*	*	*	*
Xylenes, Total	530	3	*	*	*	*	*	500	5	*	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**
Antimony	NL	6	*	*	*	*	*	1	6	*	*	*	*	*
Barium	2000	100	*	668	1720	263	102	700	100	179	255	287	136	*
Beryllium	NL	1	*	2	1.3	*	*	4	1	*	*	*	*	*
Cadmium	1.75	1	*	*	0.319	*	*	2	1	*	*	*	*	*
Chromium	50	10	*	22.8	125	11.3	*	10	10	*	13.9	12.1	*	*
Cobalt	NL	10	12.5	34.5	73.4	17.7	19	1	10	18.2	16.0	16.8	12.0	*
Copper	1000	10	*	10.6	64.2	*	*	1000	10	*	10.1	*	*	*
Lead	15	10	*	28.3	22.7	*	*	15	10	*	*	*	*	*
Nickel	100	50	*	*	82.1	*	*	100	50	*	*	*	*	*
Selenium	50	10	*	*	*	*	*	20	10	*	*	*	*	*
Vanadium	NL	20	*	70.5	284	31.7	*	0.3	25	*	34.9	33.0	*	*
Zinc	1050	10	29.8	42.9	216	33	*	1000	10	21.7	40.9	34.2	15.0	23.7

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HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-2

VOCs	NC 2L	Feb-1995	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	May-1998	Oct-1998	Apr-1999	Oct-1999	Apr-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003	Oct-2003	Apr-2004
Acetone	700	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11	*
Benzene	1	*	*	*	*	*	*	*	*	3.6	*	*	*	*	*	*	*	*	*	*	*
Carbon Disulfide	700	*	*	*	*	*	*	*	*	5.7	2.5	7.7	5.9	*	*	*	*	*	*	*	*
METALS	**NC 2L**	**Feb-1995**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**May-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**Apr-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**	**Apr-2003**	**Oct-2003**	**Apr-2004**
Antimony	NL	*	*	*	*	*	*	*	*	*	*	*	*	*	2.2	*	*	*	*	*	*
Arsenic	50	*	*	*	*	*	*	*	*	*	*	*	*	9.4	*	*	*	*	*	*	*
Barium	2000	*	111	*	*	526	181	208	144	185	196	269	146	290	200	270	290	330	230	64	140
Cadmium	1.75	*	*	*	*	*	*	*	*	2	*	1	*	*	6.6	4.7	*	*	*	*	7.4
Chromium	50	*	*	*	*	46	*	*	10	17	6	10	7	43	2.1	6.2	11	23	5.6	*	*
Cobalt	NL	50	44	42	37	67	26	*	40	24	37	*	31	22	27	24	32	40	24	12	24
Copper	1000	*	*	*	*	27	16	*	*	*	*	*	*	11	*	11	14	29	6.4	3	4.1
Lead	15	*	*	*	*	*	4	5	7	*	*	5	*	*	7.2	11	17	14	9.7	*	12
Nickel	100	*	*	*	*	*	*	*	*	*	*	*	*	82	82	*	*	*	*	*	*
Selenium	50	*	*	*	*	*	*	*	*	*	11	*	18	9.9	12	32	*	*	11	*	*
Vanadium	NL	*	*	*	*	46	*	*	22	23	*	*	*	17	16	*	21	34	*	*	*
Zinc	1050	12	18	10	42	121	29	*	64	93	29	40	*	40	42	37	41	59	17	15	*

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7. Only compounds detected above the laboratory PQL or SWSL are listed
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HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-2

VOCs	NC 2L	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	SWSL	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
Acetone	700	*	*	*	*	*	100	*	*	*	*	*	*	6000	100	*	*	*	*	*
Benzene	1	*	*	*	*	*	1	*	*	*	*	*	*	1	1	*	*	*	*	*
Carbon Disulfide	700	*	*	*	*	*	100	*	*	*	*	*	*	700	100	*	*	*	*	*
METALS	**NC 2L**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**SWSL**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**
Antimony	NL	*	*	*	*	*	6	*	*	*	*	*	*	1	6	*	*	*	12.5	*
Arsenic	50	*	*	*	*	*	10	*	27.9	*	*	*	*	10	10	*	*	*	*	*
Barium	2000	*	*	*	*	*	100	*	261	171	347	175	152	700	100	*	292	134	323	*
Cadmium	1.75	*	*	*	*	*	1	*	*	*	*	*	*	2	1	*	*	*	*	*
Chromium	50	*	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*	*	*	*
Cobalt	NL	42.2	49.1	21.6	32.7	23.7	10	30.1	30.4	29.9	46.1	54.3	31.5	1	10	28.7	24.0	33.4	22.9	27.9
Copper	1000	*	*	*	*	*	10	*	*	*	*	*	*	1000	10	*	*	*	*	*
Lead	15	*	*	*	*	*	10	*	*	*	*	*	*	15	10	*	*	*	*	*
Nickel	100	*	*	*	*	*	50	*	*	*	*	*	*	100	50	*	*	*	*	*
Selenium	50	*	*	*	*	*	10	*	*	*	*	*	*	20	10	*	*	*	*	*
Vanadium	NL	*	*	*	*	*	20	*	*	*	*	*	*	0.3	25	*	*	*	*	*
Zinc	1050	*	*	*	*	*	10	14.2	*	*	26.3	10.3	10.2	1000	10	*	*	*	*	*

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HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-3A

VOCs	NC 2L	Feb-1995	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	May-1998	Oct-1998	Apr-1999	Oct-1999	Apr-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003	Oct-2003	Apr-2004
Acetone	700	*	*	*	57	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Carbon Disulfide	700	*	*	*	*	*	*	*	*	5.4	*	4.1	*	*	*	*	*	*	*	*	*
METALS	**NC 2L**	**Feb-1995**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**May-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**Apr-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**	**Apr-2003**	**Oct-2003**	**Apr-2004**
Barium	2000	*	110	*	*	164	49	*	35	35	39	41	39	38	47	47	67	44	63	46	42
Chromium	50	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	2.8	*	*
Cobalt	NL	11	27	14	12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Copper	1000	*	*	*	*	13	*	*	*	*	*	*	*	*	*	*	*	*	7.7	2.5	2.2
Lead	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	16	26	*	*	*	*
Selenium	50	*	*	*	*	*	*	*	*	*	*	*	*	6.4	5.5	5.5	*	*	*	5	*
Zinc	1050	11	17	*	32	38	46	*	34	26	*	*	*	*	13	13	*	11	16	*	*

NOTES:

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2. NS - Location Not Sampled
3. NL - Constituent does not have a NC2L Standard
4. Constituent that exceed the NC2L Standard are Highlighed in Red
5. DRY - Well was dry during sampling event
6. All Constituents measured in parts per billions (ppb)
7. Only compounds detected above the laboratory PQL or SWSL are listed
8. N/A - Not Applicable

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-3A

VOCs	NC 2L	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	SWSL	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
Acetone	700	*	*	*	*	*	100	*	*	*	*	*	*	6000	100	*	*	*	*	*
Carbon Disulfide	700	*	*	*	*	*	100	*	*	*	*	*	*	700	100	*	*	*	*	*
METALS	**NC 2L**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**SWSL**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**
Barium	2000	*	*	*	*	*	100	*	*	*	*	*	*	700	100	*	*	*	*	*
Chromium	50	*	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*	*	*	*
Cobalt	NL	*	*	*	*	*	10	*	*	*	*	*	*	1	10	*	*	*	*	*
Copper	1000	*	*	*	*	*	10	*	*	*	*	*	*	1000	10	*	*	*	*	*
Lead	15	*	*	*	*	*	10	*	*	*	*	*	*	15	10	*	*	*	*	*
Selenium	50	*	*	*	*	*	10	*	*	*	*	*	*	20	10	*	*	*	*	*
Zinc	1050	*	*	*	*	*	10	44.3	14.1	23.3	*	12.3	15.3	1000	10	*	*	10.8	*	*

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4. Constituent that exceed the NC2L Standard are Highlighed in Red
5. DRY - Well was dry during sampling event
6. All Constituents measured in parts per billions (ppb)
7. Only compounds detected above the laboratory PQL or SWSL are listed
8. N/A - Not Applicable

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-5

VOCs	NC 2L	Feb-1995	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	May-1998	Oct-1998	Apr-1999	Oct-1999	Apr-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003	Oct-2003	Apr-2004
Carbon Disulfide	700	*	*	*	*	*	*	*	*	*	*	2.3	3.1	DRY	DRY	DRY	DRY	DRY	*	DRY	DRY
Xylenes, Total	530	*	*	*	*	*	*	*	*	*	2	*	*	DRY	DRY	DRY	DRY	DRY	*	DRY	DRY
METALS	**NC 2L**	**Feb-1995**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**May-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**Apr-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**	**Apr-2003**	**Oct-2003**	**Apr-2004**
Barium	2000	2150	1170	855	928	797	458	168	166	102	99	361	396	DRY	DRY	DRY	DRY	DRY	430	DRY	DRY
Beryllium	NL	*	*	*	*	*	*	*	*	*	*	*	*	DRY	DRY	DRY	DRY	DRY	1	DRY	DRY
Chromium	50	*	*	*	*	70	*	*	7	8	*	21	17	DRY	DRY	DRY	DRY	DRY	26	DRY	DRY
Cobalt	NL	*	12	*	*	65	*	*	40	*	*	*	*	DRY	DRY	DRY	DRY	DRY	12	DRY	DRY
Copper	1000	*	12	*	*	*	27	*	*	*	*	*	10	DRY	DRY	DRY	DRY	DRY	24	DRY	DRY
Lead	15	6	5	*	*	*	9	3	*	*	*	*	*	DRY	DRY	DRY	DRY	DRY	7.5	DRY	DRY
Nickel	100	*	*	*	*	*	*	*	*	*	*	*	11	DRY	DRY	DRY	DRY	DRY	18	DRY	DRY
Selenium	50	*	*	*	*	*	*	*	*	*	*	*	*	DRY	DRY	DRY	DRY	DRY	5	DRY	DRY
Vanadium	NL	*	*	*	*	134	*	*	*	*	*	30	24	DRY	DRY	DRY	DRY	DRY	36	DRY	DRY
Zinc	1050	31	27	16	54	55	11	*	38	*	*	70	86	DRY	DRY	DRY	DRY	DRY	77	DRY	DRY

NOTES:

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2. **NS - Location Not Sampled**
3. **NL - Constituent does not have a NC2L Standard**
4. **Constituent that exceed the NC2L Standard are Highlighed in Red**
5. **DRY - Well was dry during sampling event**
6. **All Constituents measured in parts per billions (ppb)**
7. **Only compounds detected above the laboratory PQL or SWSL are listed**
8. **N/A - Not Applicable**

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-5

VOCs	NC 2L	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	SWSL	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
Carbon Disulfide	700	DRY	DRY	DRY	DRY	DRY	100	DRY	DRY	DRY	DRY	DRY	DRY	700	100	DRY	DRY	DRY	DRY	DRY
Xylenes, Total	530	DRY	DRY	DRY	DRY	DRY	3	DRY	DRY	DRY	DRY	DRY	DRY	500	5	DRY	DRY	DRY	DRY	DRY
METALS	**NC 2L**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**SWSL**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**
Barium	2000	DRY	DRY	DRY	DRY	DRY	100	DRY	DRY	DRY	DRY	DRY	DRY	700	100	DRY	DRY	DRY	DRY	DRY
Beryllium	NL	DRY	DRY	DRY	DRY	DRY	1	DRY	DRY	DRY	DRY	DRY	DRY	NL	1	DRY	DRY	DRY	DRY	DRY
Chromium	50	DRY	DRY	DRY	DRY	DRY	10	DRY	DRY	DRY	DRY	DRY	DRY	10	10	DRY	DRY	DRY	DRY	DRY
Cobalt	NL	DRY	DRY	DRY	DRY	DRY	10	DRY	DRY	DRY	DRY	DRY	DRY	NL	10	DRY	DRY	DRY	DRY	DRY
Copper	1000	DRY	DRY	DRY	DRY	DRY	10	DRY	DRY	DRY	DRY	DRY	DRY	1000	10	DRY	DRY	DRY	DRY	DRY
Lead	15	DRY	DRY	DRY	DRY	DRY	10	DRY	DRY	DRY	DRY	DRY	DRY	15	10	DRY	DRY	DRY	DRY	DRY
Nickel	100	DRY	DRY	DRY	DRY	DRY	50	DRY	DRY	DRY	DRY	DRY	DRY	100	50	DRY	DRY	DRY	DRY	DRY
Selenium	50	DRY	DRY	DRY	DRY	DRY	10	DRY	DRY	DRY	DRY	DRY	DRY	20	10	DRY	DRY	DRY	DRY	DRY
Vanadium	NL	DRY	DRY	DRY	DRY	DRY	20	DRY	DRY	DRY	DRY	DRY	DRY	NL	25	DRY	DRY	DRY	DRY	DRY
Zinc	1050	DRY	DRY	DRY	DRY	DRY	10	DRY	DRY	DRY	DRY	DRY	DRY	1000	10	DRY	DRY	DRY	DRY	DRY

NOTES:

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5. DRY - Well was dry during sampling event
6. All Constituents measured in parts per billions (ppb)
7. Only compounds detected above the laboratory PQL or SWSL are listed
8. N/A - Not Applicable

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-5D

VOCs	NC 2L	SWSL	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
Methylene chloride	4.6	1	1.2	1.7	1.7	*	1.2	5	1	1.3	1.5	*	*	*
Xylenes, Total	530	3	5.8	3.7	6.1	4.7	1.9	500	5	2.1	*	*	*	*
METALS	**NC 2L**	**SWSL**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**
Barium	2000	100	1410	823	254	214	352	700	100	311	165	665	108	101
Beryllium	NL	1	*	*	*	*	*	4	1	*	*	*	*	*
Cadmium	1.75	1	*	*	2.8	*	*	2	1	*	2.7	1.3	6.6	*
Chromium	50	10	*	17	11.9	*	*	10	10	10.8	*	32.1	*	*
Cobalt	NL	10	17.1		*	*	*	1	10	*	*	10.1	*	*
Copper	1000	10	13.2	14.6	12.7	*	*	1000	10	*	*	26.8	*	*
Lead	15	10	*	*	*	*	*	15	10	*	*	*	*	*
Nickel	100	50	*	*	*	*	*	100	50	*	*	*	*	*
Selenium	50	10	*	*	*	*	*	20	10	*	*	*	*	*
Vanadium	NL	20	*	34.1	*	*	*	0.3	25	*	*	51.7	*	*
Zinc	1050	10	37.2	34.2	19.2	89.3	20.3	1000	10	23.6	13.1	76.3	*	*

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8. N/A - Not Applicable

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-10

VOCs	NC 2L	Feb-1995	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	May-1998	Oct-1998	Apr-1999	Oct-1999	Apr-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003	Oct-2003	Apr-2004
Carbon Disulfide	700	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	1.4	*	*	*
cis-1,2-Dichloroethene	70	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*	*	5.9
METALS	**NC 2L**	**Feb-1995**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**May-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**Apr-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**	**Apr-2003**	**Oct-2003**	**Apr-2004**
Antimony	N/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	28	*	*
Arsenic	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	18	*	6.2	18	*	9	*	*
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	673	652	750	790	570	2800	280	1300	450	97
Beryllium	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	1.8	*	*
Chromium	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40	31	26	24	2.6	100	*	100	*	*
Cobalt	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	16	15	11	73	*	42	6.2	*
Copper	1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	24	*	*	*	56	*	89	3.7	*
Lead	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7	5	*	11	22	41	*	29	*	*
Nickel	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	15	20	*	*	21	*	48	*	*
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	8.7	*	6.3	*	*	11	*	*
Vanadium	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	70	55	38	16	*	160	*	170	*	*
Zinc	1050	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	120	86	64	13	18	360	20	260	12	*

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5. DRY - Well was dry during sampling event
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8. N/A - Not Applicable

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-10

VOCs	NC 2L	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	SWSL	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
Carbon Disulfide	700	*	*	*	*	*	100	*	*	*	*	*	*	700	100	*	*	*	*	*
cis-1,2-Dichloroethene	70	*	*	*	*	*	5	*	*	*	*	*	*	70	5	*	*	*	*	*
METALS	**NC 2L**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**SWSL**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**
Antimony	N/L	*	*	*	*	*	6	*	*	*	*	*	*	1	6	*	*	*	*	*
Arsenic	50	*	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*	*	*	*
Barium	2000	766	*	*	*	*	100	248	226	235	369	315	254	700	100	408	840	1510	434	394
Beryllium	NL	*	*	*	*	*	1	*	*	*	*	*	*	4	1	*	*	1.3	*	*
Chromium	50	*	*	*	*	*	10	*	*	*	10.3	*	*	10	10	*	25.0	42.2	*	*
Cobalt	NL	*	*	*	*	*	10	*	*	*	*	*	*	1	10	*	11.2	24.8	*	*
Copper	1000	*	*	*	*	*	10	*	*	*	*	*	*	1000	10	*	16.3	25.3	*	*
Lead	15	*	*	*	*	*	10	*	*	*	*	*	*	15	10	*	*	16.4	*	*
Nickel	100	*	*	*	*	*	50	*	*	*	*	*	*	100	50	*	*	*	*	*
Selenium	50	*	*	*	*	*	10	*	*	*	*	*	*	20	10	*	10.1	25.4	*	*
Vanadium	NL	*	*	*	*	*	20	*	*	*	*	*	*	0.3	25	*	35.9	72.1	*	*
Zinc	1050	*	*	*	*	*	10	11.0	*	*	31.5	17.3	*	1000	10	14.5	106	165	12.4	30.9

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5. DRY - Well was dry during sampling event
6. All Constituents measured in parts per billions (ppb)
7. Only compounds detected above the laboratory PQL or SWSL are listed
8. N/A - Not Applicable

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-14

METALS	NC 2L	Feb-1995	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	May-1998	Oct-1998	Apr-1999	Oct-1999	Apr-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003	Oct-2003	Apr-2004
Antimony	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	3.9	*	*	*	*	*
Arsenic	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	7	8	*	6.5	12	*	7.6	*	*
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	458	831	330	680	980	860	190	1000	330	330
Beryllium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	3.2	*	5.2	*	*
Chromium	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31	48	9.3	12	**53**	37	21	**100**	*	*
Cobalt	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	29	45	11	20	62	48	17	120	*	*
Copper	1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23	36	*	16	43	27	17	100	*	*
Lead	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**18**	**27**	7.3	**25**	**38**	**34**	6.6	**67**	7.1	7.1
Nickel	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	22	*	*	*	12	*	56	*	*
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	*	5.3	*	16	*	*	17	*	*
Thallium	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	1.2	*	*	*	*	*
Vanadium	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	70	100	16	35	93	73	42	220	5.3	5.3
Zinc	1050	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	110	166	48	100	200	*	*	380	75	75

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5. **DRY - Well was dry during sampling event**
6. **All Constituents measured in parts per billions (ppb)**
7. **Only compounds detected above the laboratory PQL or SWSL are listed**
8. **N/A - Not Applicable**

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-14

METALS	NC 2L	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	SWSL	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
Antimony	NL	*	*	*	*	*	6	*	*	*	*	*	*	1	6	*	*	*	*	*
Arsenic	50	*	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*	*	*	*
Barium	2000	*	*	*	*	*	100	341	119	107	*	133	138	700	100	172	154	226	277	149
Beryllium	N/A	*	*	*	*	*	1	*	*	*	*	*	*	4	1	*	*	*	*	*
Chromium	50	*	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*	*	*	*
Cobalt	NL	*	*	*	*	*	10	*	*	*	*	*	*	1	10	*	*	11.5	*	*
Copper	1000	*	*	*	*	*	10	*	*	*	*	*	*	1000	10	*	*	*	*	*
Lead	15	*	*	*	*	*	10	*	*	*	*	*	*	15	10	*	*	*	*	*
Nickel	100	*	*	*	*	*	50	*	*	*	*	*	*	100	50	*	*	*	*	*
Selenium	50	*	*	*	*	*	10	*	*	*	*	*	*	20	10	*	*	*	*	*
Thallium	NL	*	*	*	*	*	5	*	*	*	*	*	*	0.2	5.5	*	*	*	*	*
Vanadium	NL	*	*	*	*	*	20	*	*	*	*	*	*	0.3	25	*	*	*	*	*
Zinc	1050	*	*	*	*	*	10	84.6	*	15.6	12.4	19.7	18.5	1000	10	21.2	32.1	42.4	23.6	36.6

NOTES:

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4. Constituent that exceed the NC2L Standard are Highlighed in Red
5. DRY - Well was dry during sampling event
6. All Constituents measured in parts per billions (ppb)
7. Only compounds detected above the laboratory PQL or SWSL are listed
8. N/A - Not Applicable

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-15

METALS	NC 2L	Feb-1995	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	May-1998	Oct-1998	Apr-1999	Oct-1999	Apr-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003	Oct-2003	Apr-2004
Antimony	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	3.9	*	*	*	*	*
Arsenic	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	*	11	*	*	*	*	*	*	*
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	996	893	810	1200	920	1000	830	150	210	880
Beryllium	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*	*	*
Cadmium	1.75	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	**3.5**	*	*	*	*	**3.9**
Chromium	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	34	8	16	14	37	26	30	8.2	*	33
Cobalt	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	67	48	37	52	89	74	68	16	8.3	81
Copper	1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	37	41	30	43	83	49	81	15	4.2	63
Lead	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**36**	**23**	**22**	**43**	**40**	**38**	**32**	6.4	*	**38**
Nickel	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	17	17	10	*	18	18	9.8	*	26
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	7.9	*	12	*	*	*	5.5	*
Vanadium	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	120	36	42	54	100	84	95	26	*	120
Zinc	1050	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	140	80	84	140	150	150	110	38	35	110

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HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-15

METALS	NC 2L	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	SWSL	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
Antimony	NL	*	*	*	*	*	6	*	*	*	*	*	*	1	6	*	*	*	*	*
Arsenic	50	*	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*	2970	1050	*
Barium	2000	697	699	505	*	602	100	384	359	282	133	477	582	700	100	492	657	2.5	*	2370
Beryllium	NL	*	*	*	*	*	1	*	*	*	*	*	*	4	1	*	*	*	*	1.3
Cadmium	1.75	*	*	*	*	*	1	*	*	*	*	*	*	2	1	*	*	*	*	*
Chromium	50	*	12.6	*	*	*	10	*	*	*	*	*	*	10	10	*	*	29.7	*	*
Cobalt	NL	35.4	53.3	18.7	20.5	43.3	10	16.6	*	12.7	*	29.1	15.4	1	10	23.1	37.5	160	31.1	56.5
Copper	1000	*	*	*	*	*	10	13.9	*	*	*	37.7	34.5	1000	10	32.2	36.4	217	62.4	170
Lead	15	23.9	26.5	*	*	18.9	10	*	*	*	*	14.0	10.1	15	10	11.4	17.7	95.1	18.5	48.3
Nickel	100	*	*	*	*	*	50	*	*	*	*	*	*	100	50	*	*	*	*	*
Selenium	50	*	*	*	*	*	10	*	*	*	*	*	*	20	10	*	*	31.6	*	14.9
Vanadium	NL	*	51.4	*	*	*	20	*	*	*	*	*	*	0.3	25	*	*	50.1	*	*
Zinc	1050	61	72.1	*	*	63.1	10	40	18	20.8	23.9	86.4	34.5	1000	10	35	56.6	176	39.4	76.8

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5. DRY - Well was dry during sampling event
6. All Constituents measured in parts per billions (ppb)
7. Only compounds detected above the laboratory PQL or SWSL are listed
8. N/A - Not Applicable

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-17

METALS	NC 2L	Feb-1995	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	May-1998	Oct-1998	Apr-1999	Oct-1999	Apr-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003	Oct-2003	Apr-2004
Antimony	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	8.5	*	*	*
Arsenic	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	6	*	*	*	*	*	*	*	*
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	199	150	290	220	210	130	670	130	330	*
Beryllium	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	1.4	*	*	*
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*	3.9	*
Chromium	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	25	11	25	31	25	21	**140**	*	65	28.6
Cobalt	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	18	25	*	56	11	26	*
Copper	1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23	*	16	25	18	16	130	7.5	62	*
Lead	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	6.4	**18**	**20**	8	*	**44**	*	**24**	**41.6**
Nickel	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	12	43	*	20	*
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	6.4	*	*	10	6.6	*	*
Vanadium	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	36	14	35	35	31	21	180	*	94	*
Zinc	1050	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	61	31	71	140	60	37	260	31	100	84.8

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HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-17

METALS	NC 2L	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	SWSL	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
Antimony	NL	*	*	*	*	*	6	*	*	*	*	*	*	1	6	*	*	*	*	*
Arsenic	50	*	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*	*	*	*
Barium	2000	*	*	*	*	*	100	217	125	152	220	105	112	700	100	114	170	218	116	120
Beryllium	NL	*	*	*	*	*	1	*	*	*	*	*	*	4	1	*	*	*	*	*
Cadmium	5	*	*	*	*	*	1	*	*	*	*	*	*	2	1	*	*	*	*	*
Chromium	50	23	*	*	10.3	*	10	*	*	*	13.3	*	*	10	10	*	*	13.0	*	*
Cobalt	NL	12.5	*	*	10.2	*	10	15.5	*	*	13.1	*	*	1	10	*	11.9	11.6	*	*
Copper	1000	*	*	*	*	*	10	12.1	*	*	14.7	*	*	1000	10	*	10.9	12.9	*	*
Lead	15	*	*	*	*	*	10	*	*	*	*	*	*	15	10	*	*	*	*	*
Nickel	100	*	*	*	*	*	50	*	*	*	*	*	*	100	50	*	*	*	*	*
Selenium	50	*	*	*	*	*	10	*	*	*	*	*	*	20	10	*	*	*	*	*
Vanadium	NL	*	*	*	*	*	20	*	*	*	*	*	*	0.3	25	*	*	*	*	*
Zinc	1050	55.6	*	*	52.9	*	10	54	23	24.1	65.4	28.5	24.2	1000	10	29.9	46.3	57.8	30.9	33.4

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8. N/A - Not Applicable

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-18

VOCs	NC 2L	Feb-1995	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	May-1998	Oct-1998	Apr-1999	Oct-1999	Apr-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003	Oct-2003	Apr-2004
Carbon Disulfide	700	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	3.5	*	*	*	*	*	*	*	*
METALS	**NC 2L**	**Feb-1995**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**May-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**Apr-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**	**Apr-2003**	**Oct-2003**	**Apr-2004**
Arsenic	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	*	*	*	*	*	*	*	*	*
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	221	151	150	110	110	140	210	190	120	620
Cadmium	1.75	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*	*	1.8
Chromium	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13	7	6.3	2.8	3.9	*	12	11	*	48
Cobalt	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	22	*	*	*	*	*	*	*	14
Copper	1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*		*	*	4	2.4	14
Lead	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	14	*	*	*	*	16
Nickel	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*	*	20
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	7.2	*	*	*	*	*	5.2	*
Vanadium	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	14	12	*	57
Zinc	1050	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	50	26	23	71	*	26	27	21	*	82

NOTES:

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7. **Only compounds detected above the laboratory PQL or SWSL are listed**
8. **N/A - Not Applicable**

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-18

VOCs	NC 2L	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	SWSL	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
Carbon Disulfide	700	*	*	*	*	*	100	*	*	*	*	*	*	700	100	*	*	*	*	*
METALS	**NC 2L**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**SWSL**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**
Arsenic	50	*	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*	*	*	*
Barium	2000	*	*	*	*	*	100	213	146	133	237	175	177	700	100	115	366	183	*	110
Cadmium	1.75	*	*	*	*	*	1	*	*	*	*	*	*	2	1	*	*	*	*	*
Chromium	50	*	14.7	*	*	13.9	10	*	*	*	11.1	*	*	10	10	*	21.2	*	*	*
Cobalt	NL	*	*	*	*	*	10	*	*	*	*	*	*	1	10	*	*	*	*	*
Copper	1000	*	*	*	*	*	10	*	*	*	*	*	*	1000	10	*	*	*	*	*
Lead	15	*	*	*	*	*	10	*	*	*	*	*	*	15	10	*	*	*	*	*
Nickel	100	*	*	*	*	*	50	*	*	*	*	*	*	100	50	*	*	*	*	*
Selenium	50	*	*	*	*	*	10	*	*	*	*	*	*	20	10	*	*	*	*	*
Vanadium	NL	*	*	*	*	*	20	*	*	*	*	*	*	0.3	25	*	*	*	*	*
Zinc	1050	*	*	*	*	68.1	10	24.6	29.4	*	27.8	13	15.2	1000	10	11.8	45.3	16.5	10.4	*

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HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-19

METALS	NC 2L	Feb-1995	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	May-1998	Oct-1998	Apr-1999	Oct-1999	Apr-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003	Oct-2003
Antimony	**NL**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	6.5	*	*	7.8	*
Arsenic	**50**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	13	*	*	24	*	*	*
Barium	**2000**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2380**	1310	1200	1800	530	**2600**	1300	62	520
Beryllium	**NL**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	4	4	*	10	*	*	*
Cadmium	**1.75**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	**2.9**	**2.2**	*	*	*	*
Chromium	**50**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**85**	43	42	**50**	40	**100**	35	2.7	*
Cobalt	**NL**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60	31	27	35	30	80	26	*	*
Copper	**1000**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	70	39	23	36	33	82	40	7.5	5.3
Lead	**15**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**124**	**71**	**80**	**140**	**64**	**160**	**61**	*	13
Nickel	**100**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30	16	27	27	*	30	*	*	*
Selenium	**50**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	13	*	11	*	*	*	7
Vanadium	**NL**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	170	77	67	98	68	200	66	*	*
Zinc	**1050**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	290	179	160	260	130	540	160	11	43

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4. **Constituent that exceed the NC2L Standard are Highlighed in Red**
5. **DRY - Well was dry during sampling event**
6. **All Constituents measured in parts per billions (ppb)**
7. **Only compounds detected above the laboratory PQL or SWSL are listed**
8. **N/A - Not Applicable**

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-19

METALS	NC 2L	Apr-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	SWSL	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011
Antimony	NL	*	*	*	*	*	*	6	*	*	*	*	*	*	NL	6	*	*	*	*
Arsenic	50	*	*	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*	*	*
Barium	2000	660	565	985	1060	941	819	100	2650	965	452	1170	1000	1020	700	100	499	488	480	416
Beryllium	NL	*	*	*	*	*	*	1	2.4			2.2	1.7	1	NL	1	*	1.0	1.1	*
Cadmium	1.75	4.4	*	*	*	*	*	1	*	*	*	*	*	*	2	1	*	*	*	*
Chromium	50	61	*	27.7	*	*	*	10	*	*	*	19.3	12.8	*	10	10	*	12.7	15.5	*
Cobalt	NL	35	*	23	*	*	11.4	10	*	*	*	25	16.3	*	NL	10	*	13.2	13.5	*
Copper	1000	55	*	*	*	*	*	10	10.9			24.1	17.6	*	1000	10	*	13.2	13.3	*
Lead	15	80	41.6	56.9	16.1	15	25.2	10	36.2	13.8	20	64	52.1	18.3	15	10	18.1	29.6	31.3	*
Nickel	100	25	*	*	*	*	*	50	*	*	*	*	*	*	100	50	*	*	*	*
Selenium	50	*	*	*	*	*	*	10	*	*	*	*	*	*	20	10	*	*	*	*
Vanadium	NL	120	*	58.1	*	*	*	20	*	*	*	31.6	22.9	*	NL	25	*	*	*	*
Zinc	1050	180	80.4	110	*	*	73.8	10	109	21.8	43.5	139	105	41.2	1000	10	48.6	74.9	75.9	24.4

NOTES:

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2. NS - Location Not Sampled
3. NL - Constituent does not have a NC2L Standard
4. Constituent that exceed the NC2L Standard are Highlighed in Red
5. DRY - Well was dry during sampling event
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7. Only compounds detected above the laboratory PQL or SWSL are listed
8. N/A - Not Applicable

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-19

METALS	NC 2L	SWSL	Apr-2012
Antimony	1	6	*
Arsenic	10	10	*
Barium	700	100	324
Beryllium	4	1	*
Cadmium	2	1	*
Chromium	10	10	*
Cobalt	1	10	*
Copper	1000	10	*
Lead	15	10	10.8
Nickel	100	50	*
Selenium	20	10	*
Vanadium	0.3	25	*
Zinc	1000	10	34.0

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6. All Constituents measured in parts per billions (ppb)
7. Only compounds detected above the laboratory PQL or SWSL are listed
8. N/A - Not Applicable

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-19A

VOCs	NC 2L	Feb-1995	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	May-1998	Oct-1998	Apr-1999	Oct-1999	Apr-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003	Oct-2003	Apr-2004
Carbon Disulfide	700	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	9	*	*	*	*	9.8	*	*	*
METALS	**NC 2L**	**Feb-1995**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**May-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**Apr-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**	**Apr-2003**	**Oct-2003**	**Apr-2004**
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	49	71	27	62	53	40	40	48	740	48
Chromium	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*	2.9	*
Cobalt	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*	16	*
Copper	1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	14	*	*	*	13	2.4
Lead	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*	9	*
Nickel	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*	6.8	*
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6	*	8	*	*	*	*	*	5.7	*
Vanadium	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*	7.4	*
Zinc	1050	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	290	88	17	24	25	10	29	*	45	*

NOTES:

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2. **NS - Location Not Sampled**
3. **NL - Constituent does not have a NC2L Standard**
4. **Constituent that exceed the NC2L Standard are Highlighed in Red**
5. **DRY - Well was dry during sampling event**
6. **All Constituents measured in parts per billions (ppb)**
7. **Only compounds detected above the laboratory PQL or SWSL are listed**
8. **N/A - Not Applicable**

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-19A

VOCs	NC 2L	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	SWSL	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
Carbon Disulfide	700	*	*	*	*	*	100	*	*	*	*	*	*	700	100	*	*	*	*	*
METALS	**NC 2L**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**SWSL**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**
Barium	2000	*	*	*	*	*	100	*	10.6	*	*	*	*	700	100	*	*	*	*	*
Chromium	50	*	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*	*	*	*
Cobalt	NL	*	*	*	*	*	10	*	*	*	*	*	*	1	10	*	*	*	*	*
Copper	1000	*	*	*	*	*	10	*	*	*	*	*	*	1000	10	*	*	*	11.3	*
Lead	15	*	*	*	*	*	10	*	*	*	*	*	*	15	10	*	*	*	*	*
Nickel	100	*	*	*	*	*	50	*	*	*	*	*	*	100	50	*	*	*	*	*
Selenium	50	*	*	*	*	*	10	*	*	*	*	*	*	20	10	*	*	*	*	*
Vanadium	NL	*	*	*	*	*	20	*	*	*	*	*	*	0.3	25	*	*	*	*	*
Zinc	1050	*	*	*	*	*	10	84.7	*	*	13.2	42.2	13.8	1000	10	20.6	12.6	*	48.6	21.2

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5. DRY - Well was dry during sampling event
6. All Constituents measured in parts per billions (ppb)
7. Only compounds detected above the laboratory PQL or SWSL are listed
8. N/A - Not Applicable

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-20

VOCs	NC 2L	Feb-1995	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	May-1998	Oct-1998	Apr-1999	Oct-1999	Apr-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003	Oct-2003	Apr-2004
Carbon Disulfide	700	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.9	*	*	*	*	*	7	*	*	*
METALS	**NC 2L**	**Feb-1995**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**May-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**Apr-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**	**Apr-2003**	**Oct-2003**	**Apr-2004**
Arsenic	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9	*	9	*	*	*	*	*	*	*
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	333	190	130	90	160	100	150	200	44	54
Beryllium	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	1.6	*	*
Chromium	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31	23	11	7.6	20	*	19	36	*	*
Cobalt	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	13	*	17	*	13	22	*	*
Copper	1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	*	*	*	*	*	11	20	*	*
Lead	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15	7	*	*	15	*	5.9	15	*	*
Nickel	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	12	*	*
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	6.8	*	5.8	*	*	5.5	*	*
Vanadium	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	80	53	25	19	40	19	42	80	*	*
Zinc	1050	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	80	82	28	26	54	22	49	82	*	*

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HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-20

VOCs	NC 2L	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	SWSL	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
Carbon Disulfide	700	*	*	*	*	*	100	*	*	*	*	*	*	700	100	*	*	*	*	*
METALS	**NC 2L**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**SWSL**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**
Arsenic	50	*	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*	*	*	*
Barium	2000	*	*	*	*	*	100	*	*	*	*	*	*	700	100	*	*	*	*	*
Beryllium	NL	*	*	*	*	*	1	*	*	*	*	*	*	4	1	*	*	*	*	*
Chromium	50	*	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*	*	*	*
Cobalt	NL	*	*	*	*	*	10	*	*	*	*	*	*	1	10	*	*	*	*	*
Copper	1000	*	*	*	*	*	10	*	*	*	*	*	*	1000	10	*	*	*	*	*
Lead	15	*	*	*	*	*	10	*	*	*	*	*	*	15	10	*	*	*	*	*
Nickel	100	*	*	*	*	*	50	*	*	*	*	*	*	100	50	*	*	*	*	*
Selenium	50	*	*	*	*	*	10	*	*	*	*	*	*	20	10	*	*	*	*	*
Vanadium	NL	*	*	*	*	*	20	*	*	*	*	*	*	0.3	25	*	*	*	*	*
Zinc	1050	*	*	*	*	*	10	*	13.7	*	10.6	12.2	*	1000	10	*	13.9	*	11.3	*

NOTES:

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HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-21

VOCs	NC 2L	Feb-1995	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	May-1998	Oct-1998	Apr-1999	Oct-1999	Apr-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003	Oct-2003	Apr-2004
Carbon Disulfide	700	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.1	2.9	*	*	*	*	2.1	*	*	*
METALS	**NC 2L**	**Feb-1995**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**May-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**Apr-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**	**Apr-2003**	**Oct-2003**	**Apr-2004**
Arsenic	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	7	*	*	*	*	*	*	*
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	94	48	72	70	78	75	80	40	51	50
Chromium	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	*	*	*	3.9	*	*	3.6	*	*
Cobalt	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	14	*	7.3	7
Lead	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	17	*	*	*	*	*
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	5.8	*	6.3	*	*	*	*	*
Zinc	1050	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30	32	16	14	22	18	30	10	*	*

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HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-21

VOCs	NC 2L	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	SWSL	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Apr-2011	Apr-2011
Carbon Disulfide	700	*	*	*	*	*	100	*	*	*	*	*	*	700	100	*	*	*	*	*
METALS	**NC 2L**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**SWSL**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**
Arsenic	50	*	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*	*	*	*
Barium	2000	*	*	*	*	*	100	*	*	*	*	*	*	700	100	*	*	*	*	*
Chromium	50	*	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*	*	*	*
Cobalt	NL	*	24.4	28.6	21.2	11.3	10	11.3	*	25.5	*	25.0	*	1	10	13.8	*	15.4	*	12.9
Lead	15	*	*	*	*	*	10	*	*	*	*	*	*	15	10	*	*	*	*	*
Selenium	50	*	*	*	*	*	10	*	*	*	*	*	*	20	10	*	*	*	*	*
Zinc	1050	*	*	*	*	*	10	14.4	12.3	*	*	*	*	1000	10	*	*	*	*	*

NOTES:

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4. Constituent that exceed the NC2L Standard are Highlighed in Red
5. DRY - Well was dry during sampling event
6. All Constituents measured in parts per billions (ppb)
7. Only compounds detected above the laboratory PQL or SWSL are listed
8. N/A - Not Applicable

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-22

METALS	NC 2L	Feb-1995	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	May-1998	Oct-1998	Apr-1999	Oct-1999	Apr-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003	Oct-2003	10/03 DUP
Arsenic	**50**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9	6	25	*	*	27	*	5.2	*	*
Barium	**2000**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1790	1250	1300	1700	350	**2100**	180	430	740	660
Beryllium	**NL**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	6	5	*	11	*	2.4	1.9	1.8
Cadmium	**1.75**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	**7**	**2**	*	*	*	*	*
Chromium	**50**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**84**	**78**	**100**	**83**	34	**140**	18	**56**	18	16
Cobalt	**NL**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	89	100	29	130	15	40	46	42
Copper	**1000**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100	87	80	70	35	130	19	68	36	32
Lead	**15**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**29**	**28**	*	**52**	12	**48**	5.6	**20**	13	12
Nickel	**100**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	80	65	99	38	*	100	*	50	20	18
Selenium	**50**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	11	16	*	12	*	*	10	*	*
Vanadium	**NL**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	170	151	140	200	60	270	37	120	20	18
Zinc	**1050**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	240	193	210	240	87	340	46	120	71	65

NOTES:

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3. **NL - Constituent does not have a NC2L Standard**
4. **Constituent that exceed the NC2L Standard are Highlighed in Red**
5. **DRY - Well was dry during sampling event**
6. **All Constituents measured in parts per billions (ppb)**
7. **Only compounds detected above the laboratory PQL or SWSL are listed**
8. **N/A - Not Applicable**

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-22

METALS	NC 2L	Apr-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	SWSL	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
Arsenic	50	*	*	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*	*	*	*
Barium	2000	940	3160	1330	1160	982	1260	100	1470	371	823	1020	539	712	700	100	847	898	712	938	768
Beryllium	NL	*	11.8	4.7	*	*	4.2	1	2.9	*	2.3	2.8	1.8	1.1	4	1	1.9	4.1	2.4	1.7	2.2
Cadmium	1.75	10	*	*	*	*	*	1	*	*	*	*	*	*	2	1	*	*	*	*	*
Chromium	50	11	366	131	10.2	*	83.7	10	12.7	*	17.4	61.4	33	*	10	10	14.9	55.2	44.3	10.3	25.0
Cobalt	NL	66	244	100	32.7	31.3	86.2	10	39.4	*	18.9	59	34.1	18.8	1	10	33.9	73.9	43.0	37.1	28.9
Copper	1000	99	300		*			10	28.8	*	14.9	54.2	32.5	10.6	1000	10	22.3	63.4	38.3	21.9	28.4
Lead	15	33	104	45.4	*	*	41.7	10	22.4	*	23.2	26.7	21.6	*	15	10	11.3	35.4	20.2	*	17.6
Nickel	100	80	226	92.2	*	*	*	50	*	*	*	*	*	*	100	50	*	51.4	*	*	*
Selenium	50	*	*	*	*	*	*	10	*	*	*	*	*	*	20	10	*	*	*	*	*
Vanadium	NL	190	616	270	*	*	141	20	*	*	31.7	109	65.3	*	0.3	25	25.7	67.4	75.5	*	37.8
Zinc	1050	240	672	212	57.1	*	207	10	74.4	29.5	39.1	153	79.3	31	1000	10	69.6	155	105	52.7	77.9

NOTES:

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2. NS - Location Not Sampled
3. NL - Constituent does not have a NC2L Standard
4. Constituent that exceed the NC2L Standard are Highlighed in Red
5. DRY - Well was dry during sampling event
6. All Constituents measured in parts per billions (ppb)
7. Only compounds detected above the laboratory PQL or SWSL are listed
8. N/A - Not Applicable

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-22A

VOCs	NC 2L	Feb-1995	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	May-1998	Oct-1998	Apr-1999	Oct-1999	Apr-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003	Oct-2003	Apr-2004
Carbon Disulfide	700	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12.5	25.7	*	*	*	*	7.1	*	*	*
METALS	**NC 2L**	**Feb-1995**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**May-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**Apr-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**	**Apr-2003**	**Oct-2003**	**Apr-2004**
Arsenic	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	6.2	*	*
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	67	477	74	72	82	100	85	88	72	100
Beryllium	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*	*	*
Cadmium	1.75	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*	*	*
Chromium	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6	*	4.9	4.2	*	*	21	10	4.2	10
Cobalt	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*	*	*
Copper	1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	6.1	5	6.3
Lead	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*	*	*
Nickel	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	16	8	*	*
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	5.8	*	*	*	*	*	*	*
Vanadium	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14	*	*	*	*	*	*	8.6	7	17
Zinc	1050	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	54	42	26	27	38	13	22	16	15	19

NOTES:

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3. **NL - Constituent does not have a NC2L Standard**
4. **Constituent that exceed the NC2L Standard are Highlighed in Red**
5. **DRY - Well was dry during sampling event**
6. **All Constituents measured in parts per billions (ppb)**
7. **Only compounds detected above the laboratory PQL or SWSL are listed**
8. **N/A - Not Applicable**

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-22A

VOCs	NC 2L	Apr-2005	Oct-2005	Apr-2006	Oct-2006	SWSL	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
Carbon Disulfide	700	*	*	*	*	100	*	*	*	*	*	*	700	100	*	*	*	*	*
METALS	**NC 2L**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**SWSL**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**
Arsenic	50	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*	*	*	*
Barium	2000	*	*	*	*	100	*	*	*	*	*	*	700	100	102	*	110	*	*
Beryllium	NL	*	*	*	*	1	*	*	*	*	*	*	4	1	*	*	*	*	*
Cadmium	1.75	*	*	*	*	1	*	*	*	*	*	*	2	1	*	*	*	1.1	*
Chromium	50	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*	*	*	*
Cobalt	NL	*	*	*	*	10	*	*	*	*	*	*	1	10	*	*	*	*	*
Copper	1000	*	*	*	*	10	*	*	*	*	*	*	1000	10	*	*	*	*	*
Lead	15	*	*	*	*	10	*	*	*	*	*	*	15	10	*	*	*	*	*
Nickel	100	*	*	*	*	50	*	*	*	*	*	*	100	50	*	*	*	*	*
Selenium	50	*	*	*	*	10	*	*	*	*	*	*	20	10	*	*	*	*	*
Vanadium	NL	*	*	*	*	20	*	*	*	*	*	*	0.3	25	*	*	*	*	*
Zinc	1050	*	*	*	*	10	*	*	*	*	*	18.6	1000	10	12.4	*	16.8	18.3	18.1

NOTES:

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2. NS - Location Not Sampled
3. NL - Constituent does not have a NC2L Standard
4. Constituent that exceed the NC2L Standard are Highlighed in Red
5. DRY - Well was dry during sampling event
6. All Constituents measured in parts per billions (ppb)
7. Only compounds detected above the laboratory PQL or SWSL are listed
8. N/A - Not Applicable

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-23

VOCs	NC 2L	Feb-1995	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	May-1998	Oct-1998	Apr-1999	SWSL	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011
1,1-Dichlorethane	70	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	*	*	1.7	*	*	7	5	*	*	*
1,4-Dichlorobenzene	1.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	*	1.3	1.1	1.2	1.3	6	1	1.1	1.0	*
METALS	**NC 2L**	**Feb-1995**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**May-1998**	**Oct-1998**	**Apr-1999**	**SWSL**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**
Arsenic	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	*	*	*	*	*	10	10	*	*	*
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100	128	109	150	156	145	700	100	135	245	139
Beryllium	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	*	*	*	*	*	NL	1	*	*	*
Chromium	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	*	*	*	*	*	10	10	*	15.3	*
Cobalt	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	*	*	*	*	*	NL	10	*	*	*
Copper	1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	*	*	*	*	*	1000	10	*	12.6	*
Lead	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	*	*	*	*	*	15	10	*	*	*
Nickel	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	50	*	*	*	*	*	100	50	*	*	*
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	*	*	*	*	*	20	10	*	*	*
Vanadium	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	*	*	*	*	*	NL	25	*	*	*
Zinc	1050	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	26.4	*	21.7	21.6	12.4	1000	10	14.7	52.8	19.1

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HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

MW-23

VOCs	NC 2L	SWSL	Oct-2011	Apr-2012
1,1-Dichlorethane	7	5	*	*
1,4-Dichlorobenzene	6	1	*	*
METALS	**NC 2L**	**SWSL**	**Oct-2011**	**Apr-2012**
Arsenic	10	10	*	*
Barium	700	100	*	110
Beryllium	4	1	*	*
Chromium	10	10	*	*
Cobalt	1	10	*	*
Copper	1000	10	*	*
Lead	15	10	*	*
Nickel	100	50	*	*
Selenium	20	10	*	*
Vanadium	0.3	25	*	*
Zinc	1000	10	10.1	12.0

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7. Only compounds detected above the laboratory PQL or SWSL are listed
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HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

SW-1

VOCs	NC 2L	Feb-1995	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	May-1998	Oct-1998	Apr-1999	Oct-1999	Apr-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003	Oct-2003	Apr-2004
Carbon Disulfide	700	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	2.6	*	*	*
METALS	**NC 2L**	**Feb-1995**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**May-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**Apr-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**	**Apr-2003**	**Oct-2003**	**Apr-2004**
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15	16	31	12	20	14	15	50	13	18
Chromium	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	2.2	*	*	*	*	*	*	*
Copper	1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*	2.3	3.7
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	5.5	*	*	*	*	*	*	*
Zinc	1050	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	21	16	*	22	*	12	*	11	*

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7. **Only compounds detected above the laboratory PQL or SWSL are listed**
8. **N/A - Not Applicable**

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

SW-1

VOCs	NC2L	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	SWSL	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
Carbon Disulfide	700	*	*	*	*	*	100	*	*	*	*	*	*	700	100	*	*	*	*	*
METALS	**NC2L**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**SWSL**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**
Barium	2000	*	*	*	*	*	100	*	*	*	*	*	*	700	100	*	*	*	*	*
Chromium	50	*	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*	*	*	*
Copper	1000	*	*	*	*	*	10	*	*	*	*	*	*	1000	10	*	*	*	*	*
Selenium	50	*	*	*	*	*	10	*	*	*	*	*	*	20	10	*	*	*	*	*
Zinc	1050	*	*	*	*	*	10	20.1	21.9	*	*	*	11.8	1000	10	14.1	*	*	*	13.8

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5. DRY - Well was dry during sampling event
6. All Constituents measured in parts per billions (ppb)
7. Only compounds detected above the laboratory PQL or SWSL are listed
8. N/A - Not Applicable

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

SW-2

VOCs	NC 2L	Feb-1995	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	May-1998	Oct-1998	Apr-1999	Oct-1999	Apr-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003	Oct-2003	Apr-2004
Carbon Disulfide	**700**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	18.8	*	*	*	*	*	*	*	*
METALS	**NC 2L**	**Feb-1995**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**May-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**Apr-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**	**Apr-2003**	**Oct-2003**	**Apr-2004**
Arsenic	**50**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	**98**	*	*
Barium	**2000**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	68	133	120	76	140	120	150	**5800**	48	57
Beryllium	**NL**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	14	*	*
Cadmium	**1.75**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	**61**	*	*
Chromium	**50**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	8	2.2	*	*	*	*	**640**	*	*
Cobalt	**NL**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	12	890	*	*
Copper	**1000**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	**1000**	*	*
Lead	**15**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	4	*	*	*	*	*	**500**	*	*
Nickel	**100**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	**340**	*	*
Selenium	**50**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	12	*	*	*	*	*	*	*
Silver	**18**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	9.9	*	*
Vanadium	**NL**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	740	*	*
Zinc	**1050**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32	52	27	*	36	18	23	**2600**	*	*

NOTES:

1. *** - Constituent did not exceed laboratory Practical Quantitation (PQL) Limit or Solid Waste Section Limit (SWSL).**
2. **NS - Location Not Sampled**
3. **NL - Constituent does not have a NC2L Standard**
4. **Constituent that exceed the NC2L Standard are Highlighed in Red**
5. **DRY - Well was dry during sampling event**
6. **All Constituents measured in parts per billions (ppb)**
7. **Only compounds detected above the laboratory PQL or SWSL are listed**
8. **N/A - Not Applicable**

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

SW-2

VOCs	NC 2L	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	SWSL	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
Carbon Disulfide	700	*	*	*	*	*	100	*	*	*	*	*	*	700	100	*	*	*	*	*
METALS	**NC 2L**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**SWSL**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**
Arsenic	50	*	*	*	*	*	6	*	*	*	*	*	*	10	10	*	*	*	*	*
Barium	2000	*	*	*	*	*	100	*	*	*	*	*	*	700	100	*	*	*	*	*
Beryllium	NL	*	*	*	*	*	1	*	*	*	*	*	*	4	1	*	*	*	*	*
Cadmium	1.75	*	*	*	*	*	1	*	*	*	*	*	*	2	1	*	*	*	*	*
Chromium	50	*	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*	*	*	*
Cobalt	NL	*	*	*	*	*	10	*	*	*	*	*	*	1	10	*	*	*	*	*
Copper	1000	*	*	*	*	*	10	*	*	*	*	*	*	1000	10	*	*	*	*	*
Lead	15	*	*	*	*	*	10	*	*	*	*	*	*	15	10	*	*	*	*	*
Nickel	100	*	*	*	*	*	50	*	*	*	*	*	*	100	50	*	*	*	*	*
Selenium	50	*	*	*	*	*	10	*	*	*	*	*	*	20	10	*	*	*	*	*
Silver	18	*	*	*	*	*	10	*	*	*	*	*	*	20	10	*	*	*	*	*
Vanadium	NL	*	*	*	*	*	20	*	*	*	*	*	*	0.3	25	*	*	*	*	*
Zinc	1050	*	*	*	*	*	10	*	*	*	*	*	*	1000	10	*	*	*	*	*

NOTES:

1. * - Constituent did not exceed laboratory Practical Quantitation (PQL) Limit or Solid Waste Section Limit (SWSL).
2. NS - Location Not Sampled
3. NL - Constituent does not have a NC2L Standard
4. Constituent that exceed the NC2L Standard are Highlighed in Red
5. DRY - Well was dry during sampling event
6. All Constituents measured in parts per billions (ppb)
7. Only compounds detected above the laboratory PQL or SWSL are listed
8. N/A - Not Applicable

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

SW-3

VOCs	NC 2L	Feb-1995	Mar-1995	Nov-1995	Apr-1996	Oct-1996	May-1997	Oct-1997	May-1998	Oct-1998	Apr-1999	Oct-1999	Apr-2000	Oct-2000	Apr-2001	Oct-2001	Apr-2002	Oct-2002	Apr-2003	Oct-2003	Apr-2004
Carbon Disulfide	700	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	1.6	*	*	*
METALS	**NC 2L**	**Feb-1995**	**Mar-1995**	**Nov-1995**	**Apr-1996**	**Oct-1996**	**May-1997**	**Oct-1997**	**May-1998**	**Oct-1998**	**Apr-1999**	**Oct-1999**	**Apr-2000**	**Oct-2000**	**Apr-2001**	**Oct-2001**	**Apr-2002**	**Oct-2002**	**Apr-2003**	**Oct-2003**	**Apr-2004**
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32	46	32	38	34	49	38	37	79	26
Chromium	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	**88**	*	*
Copper	1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	7.7	3.4	3.7
Lead	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	*	5.2	*
Nickel	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	50	*	*
Vanadium	NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	*	7.6	*	*
Zinc	1050	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	*	*	*	*	*	*	23	26	24	*

NOTES:

1. *** - Constituent did not exceed laboratory Practical Quantitation (PQL) Limit or Solid Waste Section Limit (SWSL).**
2. **NS - Location Not Sampled**
3. **NL - Constituent does not have a NC2L Standard**
4. **Constituent that exceed the NC2L Standard are Highlighed in Red**
5. **DRY - Well was dry during sampling event**
6. **All Constituents measured in parts per billions (ppb)**
7. **Only compounds detected above the laboratory PQL or SWSL are listed**
8. **N/A - Not Applicable**

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

SW-3

VOCs	NC 2L	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	SWSL	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010	Apr-2011	Oct-2011	Apr-2012
Carbon Disulfide	700	*	*	*	*	*	100	*	*	*	*	*	*	700	100	*	*	*	*	*
METALS	**NC 2L**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**SWSL**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**	**Apr-2011**	**Oct-2011**	**Apr-2012**
Barium	2000	*	*	*	*	*	100	*	*	*	*	*	*	700	100	*	*	*	*	*
Chromium	50	*	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*	*	*	*
Copper	1000	*	*	*	*	*	10	*	*	*	*	*	*	1000	10	*	*	*	*	*
Lead	15	*	*	*	*	*	10	*	*	*	*	*	*	15	10	*	*	*	*	*
Nickel	100	*	*	*	*	*	50	*	*	*	*	*	*	100	50	*	*	*	*	*
Vanadium	NL	*	*	*	*	*	20	*	*	*	*	*	*	0.3	25	*	*	*	*	*
Zinc	1050	*	*	*	*	*	10	21.3	17.6	12.3	*	*	*	1000	10	*	*	11.4	*	10.6

NOTES:

1. * - Constituent did not exceed laboratory Practical Quantitation (PQL) Limit or Solid Waste Section Limit (SWSL).
2. NS - Location Not Sampled
3. NL - Constituent does not have a NC2L Standard
4. Constituent that exceed the NC2L Standard are Highlighed in Red
5. DRY - Well was dry during sampling event
6. All Constituents measured in parts per billions (ppb)
7. Only compounds detected above the laboratory PQL or SWSL are listed
8. N/A - Not Applicable

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

SW-4

VOCs	NC 2L	Apr-2002	Oct-2002	Apr-2003	Oct-2003	Apr-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Oct-2006	SWSL	Apr-2007	Oct-2007	Apr-2008	Oct-2008	Apr-2009	Oct-2009	NC 2L	SWSL	Apr-2010	Oct-2010
Carbon Disulfide	700	*	*	*	*	*	*	*	*	*	*	100	*	*	*	*	*	*	700	100	*	*
Styrene	100	*	*	*	*	*	*	*	*	*	*	1	*	*	*	*	*	*	70	10	*	*
METALS	**NC 2L**	**Apr-2002**	**Oct-2002**	**Apr-2003**	**Oct-2003**	**Apr-2004**	**Dec-2004**	**Apr-2005**	**Oct-2005**	**Apr-2006**	**Oct-2006**	**SWSL**	**Apr-2007**	**Oct-2007**	**Apr-2008**	**Oct-2008**	**Apr-2009**	**Oct-2009**	**NC 2L**	**SWSL**	**Apr-2010**	**Oct-2010**
Barium	2000	40	68	36	96	27	*	*	*	*	*	100	*	*	*	*	*	*	700	100	*	*
Chromium	50	*	*	18	2.1	*	*	*	*	*	*	10	*	*	*	*	*	*	10	10	*	*
Cobalt	NL	*	*	*	7	*	*	*	*	*	*	10	*	*	*	*	*	*	NL	10	*	*
Copper	1000	*	*	3.9	4.6	5.2	*	*	*	*	*	10	*	*	*	*	*	*	1000	10	*	*
Lead	15	*	*	*	5.3	*	*	*	*	*	*	10	*	*	*	*	*	*	15	10	*	*
Nickel	100	*	*	12	*	*	*	*	*	*	*	50	*	*	*	*	*	*	100	50	*	*
Selenium	50	*	*	*	*	*	*	*	*	*	*	10	*	*	*	*	*	*	20	10	*	*
Vanadium	NL	*	*	*	5.3	*	*	*	*	*	*	20	*	*	*	*	*	*	NL	25	*	*
Zinc	1050	21	20	21	24	12	*	*	*	*	*	10	*	*	*	*	*	10.8	1000	10	*	*

NOTES:

1. * - Constituent did not exceed laboratory Practical Quantitation (PQL) Limit or Solid Waste Section Limit (SWSL).
2. NS - Location Not Sampled
3. NL - Constituent does not have a NC2L Standard
4. Constituent that exceed the NC2L Standard are Highlighed in Red
5. DRY - Well was dry during sampling event
6. All Constituents measured in parts per billions (ppb)
7. Only compounds detected above the laboratory PQL or SWSL are listed
8. N/A - Not Applicable

HISTORICAL ANALYTICAL RESULTS

MACON COUNTY MUNICIPAL SOLID WASTE (MSW) LANDFILL

PERMIT NO: 57-03

MACON COUNTY, NORTH CAROLINA

SW-4

VOCs	NC 2L	SWSL	Apr-2011	Oct-2011	Apr-2012
Carbon Disulfide	700	100	*	*	*
Styrene	70	10	*	*	*
METALS	**NC 2L**	**SWSL**	**Apr-2011**	**Oct-2011**	**Apr-2012**
Barium	700	100	*	*	*
Chromium	10	10	*	*	*
Cobalt	NL	10	*	*	*
Copper	1000	10	*	*	*
Lead	15	10	*	*	*
Nickel	100	50	*	*	*
Selenium	20	10	*	*	*
Vanadium	NL	25	*	*	*
Zinc	1000	10	*	10.1	*

NOTES:

1. * - Constituent did not exceed laboratory Practical Quantitation (PQL) Limit or Solid Waste Section Limit (SWSL).
2. NS - Location Not Sampled
3. NL - Constituent does not have a NC2L Standard
4. Constituent that exceed the NC2L Standard are Highlighed in Red
5. DRY - Well was dry during sampling event
6. All Constituents measured in parts per billions (ppb)
7. Only compounds detected above the laboratory PQL or SWSL are listed
8. N/A - Not Applicable

Macon County Municipal Solid Waste (MSW) Landfill

Macon County, North Carolina

Permit Number: 57-03

Appendix E:

Alternate Source Demonstration

ALTERNATE SOURCE DEMONSTRATION
1st Semiannual 2012 Event
Macon County MSW Landfill, Permit No. 57-03
Macon County, North Carolina

Prepared for:

Macon County Solid Waste Department
109 Sierra Drive
Franklin, NC 28734

Prepared by:

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Beaver, WV 25813

1.0 EXCEEDANCE DESCRIPTION

REI Consultants of North Carolina, PLLC (REIC of NC), on behalf of Macon County, is submitting this Alternate Source Demonstration (ASD) for the Macon County Municipal Solid Waste Landfill, Permit No. 57-03 (MSW Landfill), pursuant to North Carolina waste management regulations 15 NCAC 13B .1633, due to exceedances of North Carolina groundwater protection standards for metals during the 1st semi-annual monitoring period of 2012. North Carolina groundwater protection standards include both groundwater standards and interim maximum allowable concentrations (IMACs) given in 15A NCAC 2L .0202, effective January 1, 2010. The following metals exceeded groundwater protection standards in the indicated wells:

Parameter	Well
Barium	MW-15, MW-22
Chromium	MW-22
Cobalt	MW-1A, MW-2, MW-15, MW-21, MW-22
Lead	MW-15, MW-22
Vanadium	MW-22

2.0 DATA EVALUATION

Statistical analysis of background data from upgradient wells at the facility indicates that all of the above exceedances are lower than background statistical limits with the exception of barium, cobalt, and lead in well MW-15. Statistical analysis of groundwater data was conducted by constructing prediction limits from available upgradient background data. Data from upgradient wells MW-10, MW-17, and MW-18 were pooled and utilized for comparison to data from compliance wells associated with the MSW Landfill. The pooled upgradient data provides a characterization of spatial variability. The statistical analysis was conducted in general accordance with the guidelines of "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance" (U.S. EPA Office of Resource Conservation and Recovery, March 2009). Prediction intervals were constructed as follows. For constituents where more than 15

but less than 50 percent of the data were below PQLs/SWSLs, data was tested for normality or log-normality using the Shapiro-Wilk test. For constituents where 50 percent or more of the data were below PQLs/SWSLs or where transformation failed to bring about normality, a non-parametric prediction limit was constructed using the maximum historical background measurement. The statistical analysis is included in this report. The following table summarizes, for those wells and parameters for which groundwater protection standards were exceeded during the 1st semiannual 2012 event, the sample results, the applicable groundwater protection standards, and background statistical limits:

	SWSL	*GPS*	*UPL*	MW-1A	MW-2	MW-15	MW-21	MW-22
Barium	0.100	0.7	1.75	-	-	**2.37**	-	0.768
Chromium	0.010	0.01	0.140	-	-	-	-	0.0250
Cobalt	0.010	0.001	0.056	0.0209	0.0279	**0.0565**	0.0129	0.0289
Lead	0.010	0.015	0.044	-	-	**0.0483**	-	0.0176
Vanadium	0.025	0.003	0.180	-	-	-	-	0.0378

Notes:

All values in mg/L
SWSL – Solid Waste Section Limit
GPS – 15A NCAC 2L .0202 groundwater protection standard
UPL – upper prediction limit
"-" – not detected at or above SWSL
Bold – exceeds background

Note that of the above results, only barium, cobalt, and lead in well MW-15 exceeded the statistical background limits. However, appreciable suspended solids were present in the sample collected from well MW-15. In addition, analysis of the sample for dissolved metals yielded a low concentration of barium (0.131 mg/L) and no detections of cobalt or lead. Due to the presence of solids in the sample and the lack of elevated dissolved metals, it is likely that the total metals elevations were the result of naturally occurring material associated with sediments in well MW-15.

All other exceedances of groundwater standards were below background statistical limits. This indicates that the cobalt exceedances in wells MW-1A, MW-2, MW-21, and MW-22, and the barium, chromium, lead, and vanadium exceedances in well MW-22 are due to natural variation, as these parameters have been observed in the upgradient background wells at the facility at higher levels than those exhibited in compliance wells.

3.0 CONCLUSIONS

It is the professional opinion of REIC of NC that the groundwater protection standards exceedances of cobalt in wells MW-1A, MW-2, MW-21, and MW-22, and barium, chromium, lead, and vanadium in well MW-22 were not the result of a release from the landfill, but rather are due to natural variation. This conclusion is based upon the available data collected from background and compliance wells at the facility, and application of statistical procedures to compare data upgradient and downgradient of the landfills. Barium, chromium, cobalt, lead, and vanadium have been observed in samples collected from background wells at the facility, which indicates that these metals are present naturally in areas of the facility upgradient of waste units. In addition, the statistical limits derived from upgradient data are considerably higher than concentrations of the above metals observed during the 1st semiannual 2012 monitoring event. Since the metals in the affected wells do not exceed background, the presence of the metals is attributed to natural variation.

In addition, it is the professional opinion of REIC of NC that the groundwater protection standard exceedances of barium, cobalt, and lead in well MW-15 were not the result of a release from the landfill, but rather are due to excessive suspended solids in the sample collected from well MW-15. This conclusion is based upon that fact that appreciable suspended solids were present in the sample, and analysis of the sample for dissolved metals yielded a low concentration of barium and no detections of cobalt or lead. Due to the presence of solids in the sample and the lack of elevated dissolved metals, it is likely that the total metals elevations were the result of naturally occurring material associated with sediments in well MW-15.

Prepared by:
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License No. P-1018

Under the direct supervision of:
Michael P. Hofe, PE
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NORTH CAROLINA PROFESSIONAL SEAL 028029 7/20/12 ENGINEER MICHAEL P. HOFE

Date: 7/20/12

Statistical Analysis

MSW Landfill

Well	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Cobalt	Lead	Nickel	Selenium	Vanadium	Zinc	Carbon Disulfide	cis-1,2-Dichloro-ethene
MW-10	Oct-99	0.0150	0.0050	0.673	0.001	0.0005	0.040	0.100	0.005	0.005	0.025	0.010	0.070	0.120	0.005	0.0025
MW-10	Apr-00	0.0150	0.0050	0.652	0.001	0.0005	0.031	0.100	0.005	0.005	0.025	0.010	0.055	0.086	0.005	0.0025
MW-10	Oct-00	0.0150	0.018	0.750	0.001	0.0005	0.026	0.100	0.016	0.005	0.025	0.010	0.020	0.064	0.005	0.0025
MW-10	Apr-01	0.0150	0.0050	0.790	0.001	0.0005	0.024	0.100	0.015	0.011	0.025	0.010	0.020	0.025	0.005	0.0025
MW-10	Oct-01	0.0150	0.0050	0.570	0.001	0.0005	0.005	0.100	0.011	0.022	0.025	0.010	0.020	0.025	0.005	0.0025
MW-10	Apr-03	0.0150	0.0050	1.30	0.001	0.0005	0.100	0.100	0.042	0.029	0.025	0.010	0.020	0.26	0.005	0.0025
MW-10	Oct-03	0.0150	0.0050	0.250	0.001	0.0005	0.005	0.100	0.005	0.005	0.025	0.010	0.020	0.025	0.005	0.0025
MW-10	Apr-04	0.0150	0.0050	0.250	0.001	0.0005	0.005	0.100	0.005	0.005	0.025	0.010	0.020	0.025	0.005	0.0059
MW-17	Oct-99	0.0150	0.0050	0.250	0.001	0.0005	0.017	0.100	0.005	0.005	0.025	0.010	0.020	0.065	0.005	0.0025
MW-17	Apr-00	0.0150	0.0050	0.250	0.001	0.0005	0.025	0.100	0.005	0.005	0.025	0.010	0.020	0.061	0.005	0.0025
MW-17	Oct-00	0.0150	0.0050	0.250	0.001	0.0005	0.011	0.100	0.005	0.005	0.025	0.010	0.020	0.025	0.005	0.0025
MW-17	Apr-01	0.0150	0.0050	0.250	0.001	0.0005	0.025	0.100	0.005	0.018	0.025	0.010	0.020	0.071	0.005	0.0025
MW-17	Oct-01	0.0150	0.0050	0.250	0.001	0.0005	0.031	0.100	0.018	0.020	0.025	0.010	0.020	0.140	0.005	0.0025
MW-17	Apr-03	0.0150	0.0050	0.670	0.001	0.0005	0.140	0.100	0.056	0.044	0.025	0.010	0.180	0.260	0.005	0.0025
MW-17	Oct-03	0.0150	0.0050	0.250	0.001	0.0005	0.005	0.100	0.011	0.005	0.025	0.010	0.020	0.025	0.005	0.0025
MW-17	Apr-04	0.0150	0.0050	0.250	0.001	0.0039	0.065	0.100	0.026	0.024	0.025	0.010	0.020	0.100	0.005	0.0025
MW-18	Oct-99	0.0150	0.0050	0.250	0.001	0.0005	0.013	0.100	0.005	0.005	0.025	0.010	0.020	0.050	0.005	0.0025
MW-18	Apr-00	0.0150	0.0050	0.250	0.001	0.0005	0.005	0.100	0.022	0.005	0.025	0.010	0.020	0.025	0.0035	0.0025
MW-18	Oct-00	0.0150	0.0050	0.250	0.001	0.0005	0.005	0.100	0.005	0.005	0.025	0.010	0.020	0.025	0.005	0.0025
MW-18	Apr-01	0.0150	0.0050	0.250	0.001	0.0005	0.005	0.100	0.005	0.005	0.025	0.010	0.020	0.071	0.005	0.0025
MW-18	Oct-01	0.0150	0.0050	0.250	0.001	0.0005	0.005		0.005	0.014	0.025	0.010	0.020	0.025	0.005	0.0025
MW-18	Apr-03	0.0150	0.0050	0.250	0.001	0.0005	0.011	0.100	0.005	0.005	0.025	0.010	0.020	0.025	0.005	0.0025
MW-18	Oct-03	0.0150	0.0050	0.250	0.001	0.0005	0.005	0.100	0.005	0.005	0.025	0.010	0.020	0.025	0.005	0.0025
MW-18	Apr-04	0.0150	0.0050	0.620	0.001	0.0018	0.048	0.100	0.014	0.016	0.025	0.010	0.057	0.082	0.005	0.0025
MW-10	Dec-04	0.0150	0.0050	0.766	0.001	0.0005	0.005	0.100	0.0118	0.005	0.025	0.010	0.020	0.025	0.005	0.0025
MW-17	Dec-04	0.0150	0.0050	0.250	0.001	0.0005	0.0286	0.100	0.0133	0.0122	0.025	0.010	0.020	0.0848	0.005	0.0025
MW-18	Dec-04	0.0150	0.0050	0.250	0.001	0.0005	0.0190	0.100	0.005	0.005	0.025	0.010	0.020	0.025	0.005	0.0025
MW-10	Apr-05	0.0150	0.0050	0.250	0.001	0.0005	0.005	0.100	0.005	0.005	0.025	0.010	0.020	0.025	0.005	0.0025
MW-17	Apr-05	0.0150	0.0050	0.250	0.001	0.0005	0.0230	0.100	0.0125	0.005	0.025	0.010	0.020	0.0556	0.005	0.0025
MW-18	Apr-05	0.0150	0.0050	0.250	0.001	0.0005	0.0147	0.100	0.005	0.005	0.025	0.010	0.020	0.025	0.005	0.0025
MW-10	Oct-05	0.0150	0.0050	0.250	0.001	0.0005	0.005	0.100	0.005	0.005	0.025	0.010	0.020	0.025	0.005	0.0025
MW-17	Oct-05	0.0150	0.0050	0.250	0.001	0.0005	0.005	0.100	0.005	0.005	0.025	0.010	0.020	0.025	0.005	0.0025
MW-18	Oct-05	0.0150	0.0050	0.250	0.001	0.0005	0.005	0.100	0.005	0.005	0.025	0.010	0.020	0.025	0.005	0.0025
MW-10	Apr-06	0.0150	0.0050	0.250	0.001	0.0005	0.005	0.100	0.005	0.005	0.025	0.010	0.020	0.025	0.005	0.0025
MW-17	Apr-06	0.0150	0.0050	0.250	0.001	0.0005	0.005	0.100	0.005	0.005	0.025	0.010	0.020	0.025	0.005	0.0025
MW-18	Apr-06	0.0150	0.0050	0.250	0.001	0.0005	0.005	0.100	0.005	0.005	0.025	0.010	0.020	0.025	0.005	0.0025
MW-10	Oct-06	0.0150	0.0050	0.250	0.001	0.0005	0.005	0.100	0.005	0.005	0.025	0.010	0.020	0.025	0.005	0.0025
MW-17	Oct-06	0.0150	0.0050	0.250	0.001	0.0005	0.0103	0.100	0.0102	0.005	0.025	0.010	0.020	0.0529	0.005	0.0025
MW-18	Oct-06	0.0150	0.0050	0.250	0.001	0.0005	0.0139	0.100	0.005	0.005	0.025	0.010	0.020	0.0681	0.005	0.0025
MW-10	Apr-07	0.0030	0.0050	0.248	0.0005	0.0005	0.0050	0.005	0.005	0.005	0.025	0.005	0.010	0.0110	0.050	0.0025
MW-17	Apr-07	0.0030	0.0050	0.217	0.0005	0.0005	0.0050	0.0121	0.0155	0.005	0.025	0.005	0.010	0.0540	0.050	0.0025
MW-18	Apr-07	0.0030	0.0050	0.213	0.0005	0.0005	0.0050	0.005	0.005	0.005	0.025	0.005	0.010	0.0246	0.050	0.0025
MW-10	Oct-07	0.0030	0.0050	0.226	0.0005	0.0005	0.0050	0.005	0.005	0.005	0.025	0.005	0.010	0.005	0.050	0.0025
MW-17	Oct-07	0.0030	0.0050	0.125	0.0005	0.0005	0.0050	0.005	0.005	0.005	0.025	0.005	0.010	0.0230	0.050	0.0025
MW-18	Oct-07	0.0030	0.0050	0.146	0.0005	0.0005	0.0050	0.005	0.005	0.005	0.025	0.005	0.010	0.0294	0.050	0.0025
MW-10	Apr-08	0.0030	0.0050	0.235	0.0005	0.0005	0.0050	0.005	0.005	0.005	0.025	0.005	0.010	0.005	0.050	0.0025
MW-17	Apr-08	0.0030	0.0050	0.152	0.0005	0.0005	0.0050	0.005	0.005	0.005	0.025	0.005	0.010	0.0241	0.050	0.0025
MW-18	Apr-08	0.0030	0.0050	0.133	0.0005	0.0005	0.0050	0.005	0.005	0.005	0.025	0.005	0.010	0.005	0.050	0.0025
MW-10	Oct-08	0.0030	0.0050	0.369	0.0005	0.0005	0.0103	0.005	0.005	0.005	0.025	0.005	0.010	0.0315	0.050	0.0025

Statistical Analysis

MSW Landfill

Well	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Cobalt	Lead	Nickel	Selenium	Vanadium	Zinc	Carbon Disulfide	cis-1,2-Dichloro-ethene
MW-17	Oct-08	0.0030	0.0050	0.220	0.0005	0.0005	0.0133	0.0147	0.0131	0.005	0.025	0.005	0.010	0.0654	0.050	0.0025
MW-18	Oct-08	0.0030	0.0050	0.237	0.0005	0.0005	0.0111	0.005	0.005	0.005	0.025	0.005	0.010	0.0278	0.050	0.0025
MW-10	Apr-09	0.0030	0.0050	0.315	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.010	0.0173	0.050	0.0025
MW-17	Apr-09	0.0030	0.0050	0.105	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.010	0.0285	0.050	0.0025
MW-18	Apr-09	0.0030	0.0050	0.175	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.010	0.0130	0.050	0.0025
MW-10	Oct-09	0.0030	0.0050	0.254	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.010	0.005	0.050	0.0025
MW-17	Oct-09	0.0030	0.0050	0.112	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.010	0.0242	0.050	0.0025
MW-18	Oct-09	0.0030	0.0050	0.177	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.010	0.0152	0.050	0.0025
MW-10	Apr-10	0.0030	0.0050	0.408	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.010	0.0145	0.050	0.0025
MW-17	Apr-10	0.0030	0.0050	0.114	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.010	0.0299	0.050	0.0025
MW-18	Apr-10	0.0030	0.0050	0.115	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.010	0.0118	0.050	0.0025
MW-10	Oct-10	0.0030	0.0050	0.840	0.0005	0.0005	0.0250	0.0163	0.0112	0.005	0.025	0.0101	0.0359	0.106	0.050	0.0025
MW-17	Oct-10	0.0030	0.0050	0.170	0.0005	0.0005	0.005	0.0109	0.0119	0.005	0.025	0.005	0.0125	0.0463	0.050	0.0025
MW-18	Oct-10	0.0030	0.0050	0.366	0.0005	0.0005	0.0212	0.005	0.005	0.005	0.025	0.005	0.0125	0.0453	0.050	0.0025
MW-10	Apr-11	0.0030	0.0050	1.51	0.0013	0.0005	0.0422	0.0253	0.0248	0.0164	0.025	0.0254	0.0721	0.165	0.050	0.0025
MW-17	Apr-11	0.0030	0.0050	0.218	0.0005	0.0005	0.0130	0.0129	0.0116	0.005	0.025	0.005	0.010	0.0578	0.050	0.0025
MW-18	Apr-11	0.0030	0.0050	0.183	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.010	0.0165	0.050	0.0025
MW-10	Oct-11	0.0030	0.0050	0.434	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.010	0.0124	0.050	0.0025
MW-17	Oct-11	0.0030	0.0050	0.116	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.010	0.0309	0.050	0.0025
MW-18	Oct-11	0.0030	0.0050	0.050	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.010	0.0104	0.050	0.0025
MW-10	Apr-12	0.0030	0.0050	0.394	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.010	0.0309	0.050	0.0025
MW-17	Apr-12	0.0030	0.0050	0.120	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.010	0.0334	0.050	0.0025
MW-18	Apr-12	0.0030	0.0050	0.110	0.0005	0.0005	0.005	0.005	0.005	0.005	0.025	0.005	0.010	0.005	0.050	0.0025

PQL	0.030	0.010	0.500	0.002	0.001	0.010	0.200	0.010	0.010	0.050	0.020	0.040	0.050	0.100	0.005
SWSL	0.006	0.010	0.100	0.001	0.001	0.010	0.010	0.010	0.010	0.050	0.010	0.020	0.010	0.100	0.005
# Obs.	72	72	72	72	72	72	33	72	72	72	72	72	72	72	72
# NDs	72	71	31	71	70	44	27	52	61	72	70	58	27	71	71
% NDs	100%	99%	43%	99%	97%	61%	82%	72%	85%	100%	97%	81%	38%	99%	99%
Method	Nonpara-metric	Nonpara-metric	Para- metric	Nonpara-metric	Nonpara-metric	Nonpara-metric	Nonpara-metric	Nonpara-metric	Nonpara-metric	Nonpara-metric	Nonpara-metric	Nonpara-metric	Para- metric	Nonpara-metric	Nonpara-metric
Limit	0.006	0.018	1.75	0.0013	0.0039	0.140	0.0253	0.056	0.044	0.050	0.0254	0.180	0.382	0.100	0.0059

Statistical Analysis

0.05		k	
n	10	12	15
72	1.52	1.56	1.63
72		**1.56**	
76	1.52	1.56	1.63

0.005		k	
n	10	12	15
72	2.11	2.15	2.21
72		**2.15**	
76	2.11	2.15	2.20

0.0025		k	
n	10	12	15
72	2.27	2.31	2.36
72		**2.31**	
76	2.27	2.31	2.36

# const.	alpha	ln(alpha)	K
1	0.05	-2.99573	1.56
10	0.005	-5.29832	2.15
20	0.0025	-5.99146	2.31
26	0.00192	-6.25543	**2.37**

K= 2.37

72 available background measurements
12 compliance wells
26 constituents for which statistical comparisons are made:

1,1-Dichloroethane
1,4-Dichlorobenzene
Acetone
Antimony
Arsenic
Barium
Benzene
Beryllium
Cadmium
Carbon Disulfide
Chlorobenzene
Chloroethane
Chromium
cis-1,2-Dichloroethane
Cobalt
Copper
Ethylbenzene
Lead
Methylene Chloride
Nickel
Selenium
Thallium
Vanadium
Vinyl Chloride
Xylenes, Total
Zinc

Statistical Analysis

Barium (excluding data points censored at 0.5)

0.05	1.51	1.46	0.3917	0.5719
0.105	1.30	1.20	0.2701	0.3228
0.110	0.840	0.73	0.2345	0.1712
0.112	0.790	0.68	0.2085	0.1414
0.114	0.766	0.65	0.1874	0.1222
0.115	0.750	0.64	0.1694	0.1076
0.116	0.673	0.56	0.1535	0.0855
0.120	0.670	0.55	0.1392	0.0766
0.125	0.652	0.53	0.1259	0.0663
0.133	0.620	0.49	0.1136	0.0553
0.146	0.570	0.42	0.1020	0.0432
0.152	0.434	0.28	0.0909	0.0256
0.170	0.408	0.24	0.0804	0.0191
0.175	0.394	0.22	0.0701	0.0154
0.177	0.369	0.19	0.0602	0.0116
0.183	0.366	0.18	0.0506	0.0093
0.213	0.315	0.10	0.0411	0.0042
0.217	0.254	0.04	0.0318	0.0012
0.218	0.248	0.03	0.0227	0.0007
0.220	0.237	0.02	0.0136	0.0002
0.226	0.235	0.01	0.0045	0.0000
0.235	0.226	-0.01		
0.237	0.220	-0.02		1.8512
0.248	0.218	-0.03		
0.254	0.217	-0.04		
0.315	0.213	-0.10		
0.366	0.183	-0.18		
0.369	0.177	-0.19		
0.394	0.175	-0.22		
0.408	0.170	-0.24		
0.434	0.152	-0.28		
0.570	0.146	-0.42		
0.620	0.133	-0.49		
0.652	0.125	-0.53		
0.670	0.120	-0.55		
0.673	0.116	-0.56		
0.750	0.115	-0.64		
0.766	0.114	-0.65		
0.790	0.112	-0.68		
0.840	0.110	-0.73		
1.30	0.105	-1.20		
1.51	0.05	-1.46		

S.D. 0.33

W 0.789 less than 0.922, normal assumption rejected

Statistical Analysis

ln(Barium)				
-2.995732	0.41211	3.41	0.3917	1.3349
-2.253795	0.262364	2.52	0.2701	0.6796
-2.207275	-0.17435	2.03	0.2345	0.4767
-2.189256	-0.23572	1.95	0.2085	0.4073
-2.171557	-0.26657	1.90	0.1874	0.3570
-2.162823	-0.28768	1.88	0.1694	0.3176
-2.154165	-0.39601	1.76	0.1535	0.2699
-2.120264	-0.40048	1.72	0.1392	0.2394
-2.079442	-0.42771	1.65	0.1259	0.2080
-2.017406	-0.47804	1.54	0.1136	0.1749
-1.924149	-0.56212	1.36	0.1020	0.1389
-1.883875	-0.83471	1.05	0.0909	0.0954
-1.771957	-0.89649	0.88	0.0804	0.0704
-1.742969	-0.9314	0.81	0.0701	0.0569
-1.731606	-0.99696	0.73	0.0602	0.0442
-1.698269	-1.00512	0.69	0.0506	0.0351
-1.546463	-1.15518	0.39	0.0411	0.0161
-1.527858	-1.37042	0.16	0.0318	0.0050
-1.52326	-1.39433	0.13	0.0227	0.0029
-1.514128	-1.4397	0.07	0.0136	0.0010
-1.48722	-1.44817	0.04	0.0045	0.0002
-1.44817	-1.48722	-0.04		
-1.439695	-1.51413	-0.07		4.9313
-1.394327	-1.52326	-0.13		
-1.370421	-1.52786	-0.16		
-1.155183	-1.54646	-0.39		
-1.005122	-1.69827	-0.69		
-0.996959	-1.73161	-0.73		
-0.931404	-1.74297	-0.81		
-0.896488	-1.77196	-0.88		
-0.834711	-1.88387	-1.05		
-0.562119	-1.92415	-1.36		
-0.478036	-2.01741	-1.54		
-0.427711	-2.07944	-1.65		
-0.400478	-2.12026	-1.72		
-0.39601	-2.15417	-1.76		
-0.287682	-2.16282	-1.88		
-0.266573	-2.17156	-1.90		
-0.235722	-2.18926	-1.95		
-0.174353	-2.20727	-2.03		
0.2623643	-2.25379	-2.52		
0.4121097	-2.99573	-3.41		

S.D.	0.79	
W	0.957	greater than 0.922, lognormal assumption not rejected

Mean	-1.303
Std. Dev.	0.787
K	2.37
ln(Pr. Lim.)	0.559
Pr. Lim.	1.75

Statistical Analysis

Zinc (excluding data points censored at 0.05)

0.005	0.26	0.255	0.3751	0.0957
0.005	0.260	0.255	0.2574	0.0656
0.005	0.165	0.160	0.2260	0.0362
0.005	0.140	0.135	0.2032	0.0274
0.005	0.120	0.115	0.1847	0.0212
0.0104	0.106	0.096	0.1691	0.0162
0.0110	0.100	0.089	0.1554	0.0138
0.0118	0.086	0.074	0.1430	0.0106
0.0124	0.0848	0.072	0.1317	0.0095
0.0130	0.082	0.069	0.1212	0.0084
0.0145	0.071	0.057	0.1113	0.0063
0.0152	0.071	0.056	0.1020	0.0057
0.0165	0.0681	0.052	0.0932	0.0048
0.0173	0.0654	0.048	0.0846	0.0041
0.0230	0.065	0.042	0.0764	0.0032
0.0241	0.064	0.040	0.0685	0.0027
0.0242	0.061	0.037	0.0608	0.0022
0.0246	0.0578	0.033	0.0532	0.0018
0.0278	0.0556	0.028	0.0459	0.0013
0.0285	0.0540	0.026	0.0386	0.0010
0.0294	0.0529	0.024	0.0314	0.0007
0.0299	0.050	0.020	0.0244	0.0005
0.0309	0.0463	0.015	0.0174	0.0003
0.0309	0.0453	0.014	0.0104	0.0001
0.0315	0.0334	0.002	0.0035	0.0000
0.0334	0.0315	-0.002		
0.0453	0.0309	-0.014		0.3393
0.0463	0.0309	-0.015		
0.050	0.0299	-0.020		
0.0529	0.0294	-0.024		
0.0540	0.0285	-0.026		
0.0556	0.0278	-0.028		
0.0578	0.0246	-0.033		
0.061	0.0242	-0.037		
0.064	0.0241	-0.040		
0.065	0.0230	-0.042		
0.0654	0.0173	-0.048		
0.0681	0.0165	-0.052		
0.071	0.0152	-0.056		
0.071	0.0145	-0.057		
0.082	0.0130	-0.069		
0.0848	0.0124	-0.072	S.D.	0.06
0.086	0.0118	-0.074	W	0.754 less than 0.930, normal
0.100	0.0110	-0.089		assumption rejected
0.106	0.0104	-0.096		
0.120	0.005	-0.115		
0.140	0.005	-0.135		
0.165	0.005	-0.160		
0.26	0.005	-0.255		
0.260	0.005	-0.255		

Statistical Analysis

ln(Zn)				
-5.298317	-1.34707	3.951	0.3751	1.4821
-5.298317	-1.34707	3.951	0.2574	1.0171
-5.298317	-1.80181	3.497	0.2260	0.7902
-5.298317	-1.96611	3.332	0.2032	0.6771
-5.298317	-2.12026	3.178	0.1847	0.5870
-4.565949	-2.24432	2.322	0.1691	0.3926
-4.50986	-2.30259	2.207	0.1554	0.3430
-4.439656	-2.45341	1.986	0.1430	0.2840
-4.390059	-2.46746	1.923	0.1317	0.2532
-4.342806	-2.50104	1.842	0.1212	0.2232
-4.233607	-2.64508	1.589	0.1113	0.1768
-4.18646	-2.64508	1.541	0.1020	0.1572
-4.104395	-2.68678	1.418	0.0932	0.1321
-4.057049	-2.72723	1.330	0.0846	0.1125
-3.772261	-2.73337	1.039	0.0764	0.0794
-3.725543	-2.74887	0.977	0.0685	0.0669
-3.721403	-2.79688	0.925	0.0608	0.0562
-3.705009	-2.85077	0.854	0.0532	0.0454
-3.582719	-2.88957	0.693	0.0459	0.0318
-3.557851	-2.91877	0.639	0.0386	0.0247
-3.526761	-2.93935	0.587	0.0314	0.0184
-3.509897	-2.99573	0.514	0.0244	0.0125
-3.476999	-3.07261	0.404	0.0174	0.0070
-3.476999	-3.09445	0.383	0.0104	0.0040
-3.457768	-3.3992	0.059	0.0035	0.0002
-3.399199	-3.45777	-0.059		
-3.094448	-3.477	-0.383		6.9748
-3.072613	-3.477	-0.404		
-2.995732	-3.5099	-0.514		
-2.939352	-3.52676	-0.587		
-2.918771	-3.55785	-0.639		
-2.889572	-3.58272	-0.693		
-2.850767	-3.70501	-0.854		
-2.796881	-3.7214	-0.925		
-2.748872	-3.72554	-0.977		
-2.733368	-3.77226	-1.039		
-2.727233	-4.05705	-1.330		
-2.686778	-4.10439	-1.418		
-2.645075	-4.18646	-1.541		
-2.645075	-4.23361	-1.589		
-2.501036	-4.34281	-1.842		
-2.46746	-4.39006	-1.923		
-2.453408	-4.43966	-1.986		
-2.302585	-4.50986	-2.207		
-2.244316	-4.56595	-2.322		
-2.120264	-5.29832	-3.178		
-1.966113	-5.29832	-3.332		
-1.80181	-5.29832	-3.497		
-1.347074	-5.29832	-3.951		
-1.347074	-5.29832	-3.951		

S.D.	1.02	
W	0.958	greater than 0.930, lognormal assumption not rejected
Mean	-3.371	
Std. Dev.	1.018	
K	2.37	
ln(Pr. Lim.)	-0.962	
Pr. Lim.	0.382	