OPERATION/CONSTRUCTION MANAGERS
Municipal Services
CIVIL/SANITARY ENGINEERS
Engineering Company, P.A.

Compliance Unit
NCDENR-DEM
Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646

August 2, 2010

RE: **Environmental Monitoring Report**
Franklin County Closed Landfill
SR 1109
Louisburg, Franklin County, NC 27525
Permit # 35-01

Dear Case Manager:

Municipal Engineering Services Company, PA (MESCO), on behalf of Franklin County, appreciates the opportunity to present this brief *Environmental Monitoring Report* that details a water quality sampling event that was performed at the Franklin County Closed Landfill Facility (Permit # 35-01) on June 22-23, 2010. This submittal includes the following:

- A signed and sealed *Environmental Monitoring Reporting Form;*
- Figures, including a Site Vicinity Map (Figure 1), a Site Location Map (Figure 2), and a Groundwater Potentiometric Map (Figure 3);
- Tables, including Field Parameters (Table 1), Static Groundwater Levels (Table 2), and Laboratory Results Summary (Table 3);
- A copy of the analytical laboratory's (ESC Lab Sciences) *Report Summary*.

MESCO and Franklin County appreciate your assistance with this project. Please contact us at (919) 772-5393 or mbrown@mesco.com if you have any comments or questions regarding this brief report.

Sincerely,
MUNICIPAL ENGINEERING SERVICES COMPANY, PA

Mark Brown, LG, PG
Senior Professional Geologist

CC: Mr. John Faulkner

DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Municipal Engineering Services Company, PA

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Mark Brown Phone: (919) 772-5393

E-mail: mbrown@mesco.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Franklin County Closed MSWLF	Louisburg, NC	35-01	.1600	June 22-23, 2010

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☐ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☐ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify) _____

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Mark Brown, LG, PG — Senior Professional Geologist — (919) 772-5393

Facility Representative Name (Print) — Title — (Area Code) Telephone Number

Signature — 8/2/10 Date

Affix NC Licensed Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1711 GEOLOGIST STEPHEN MARK BROWN

PO Box 97, Garner, NC 27529

Facility Representative Address

C-0281

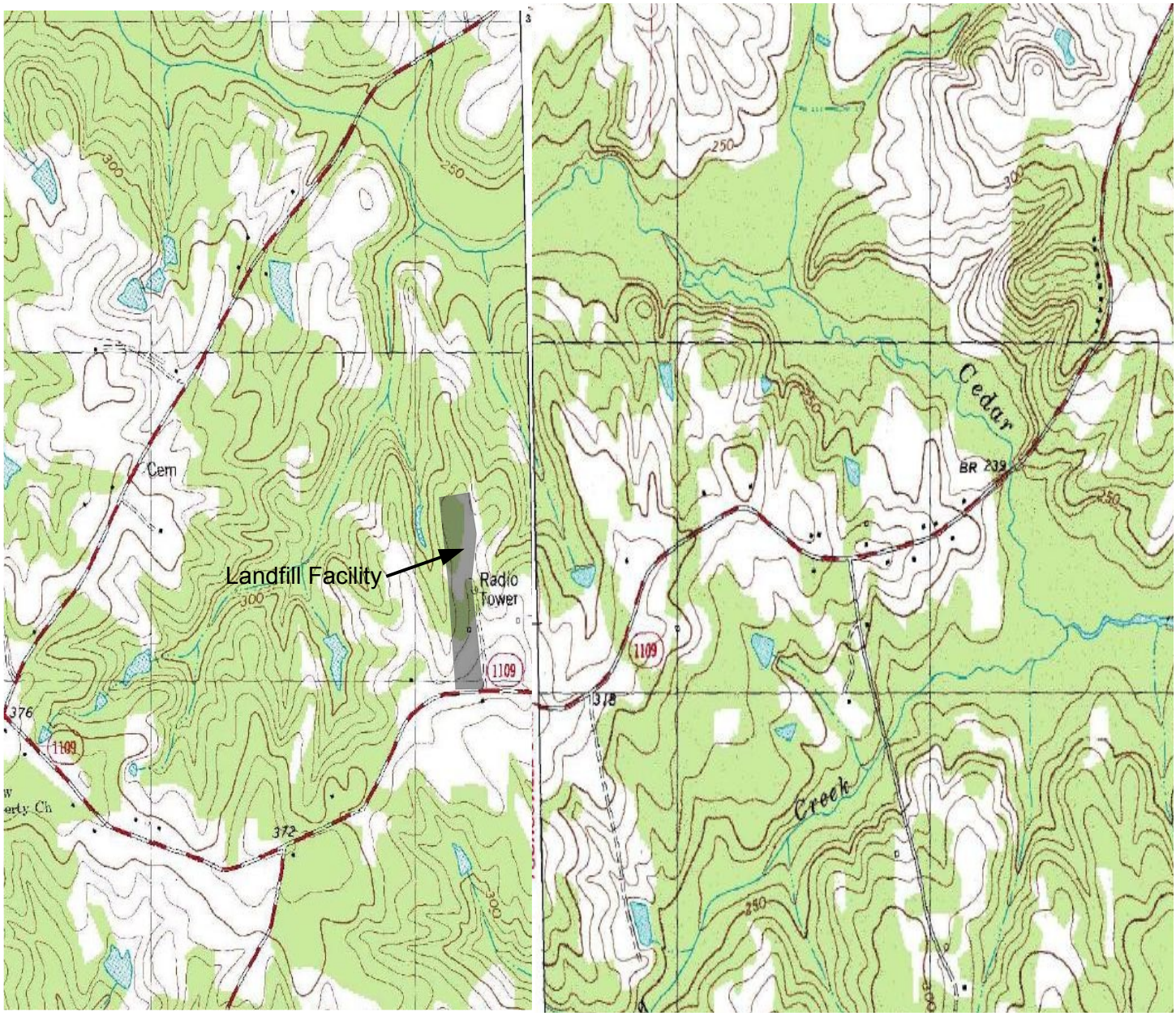
NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009

FIGURES

Site Vicinity Map

FIGURE 1



QUADRANGLE LEGEND

ROAD CLASSIFICATION

Primary highway, hard surface

Light-duty road, hard or improved surface

Secondary highway, hard surface

Unimproved road

Interstate Route

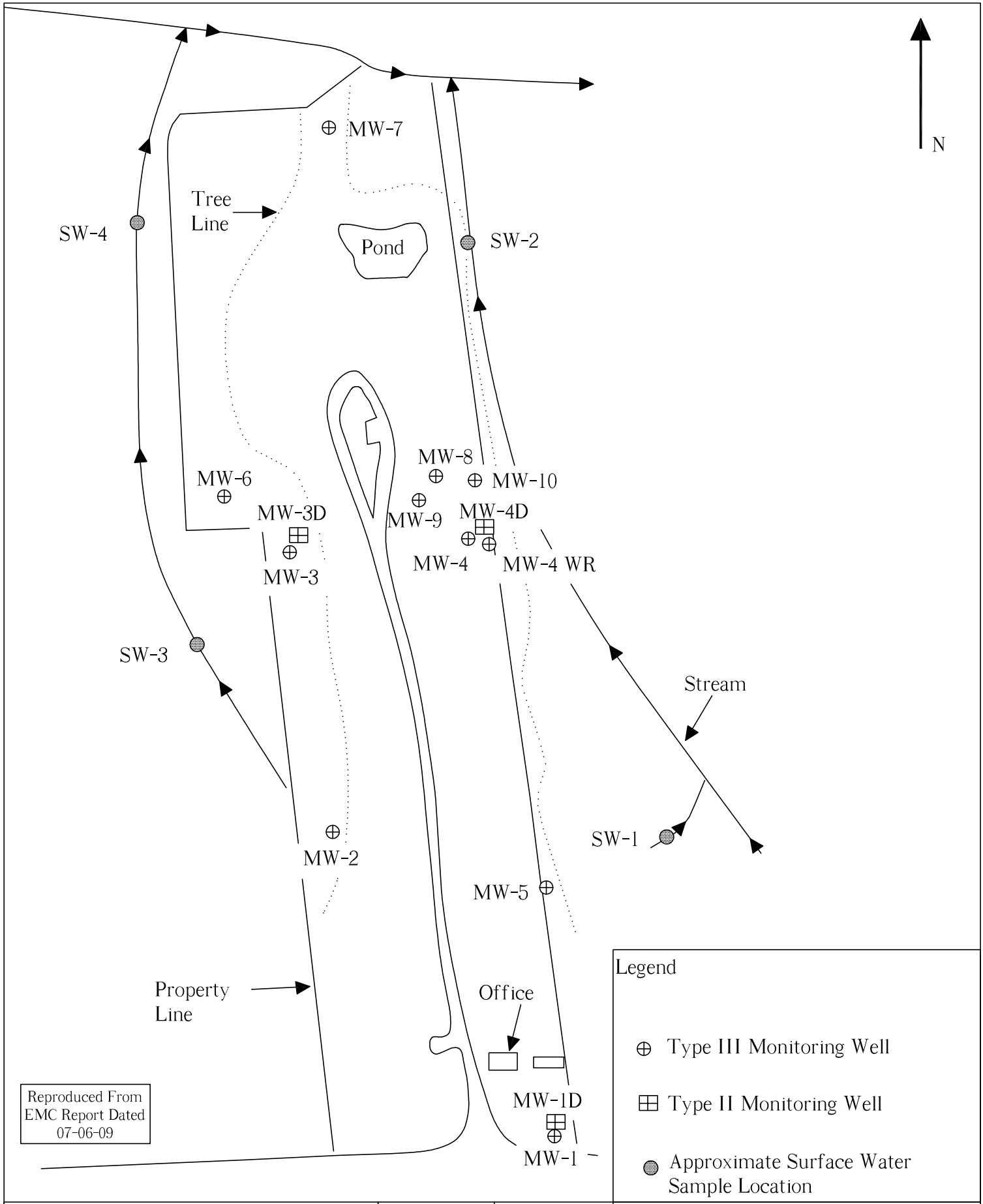
U. S. Route

State Route

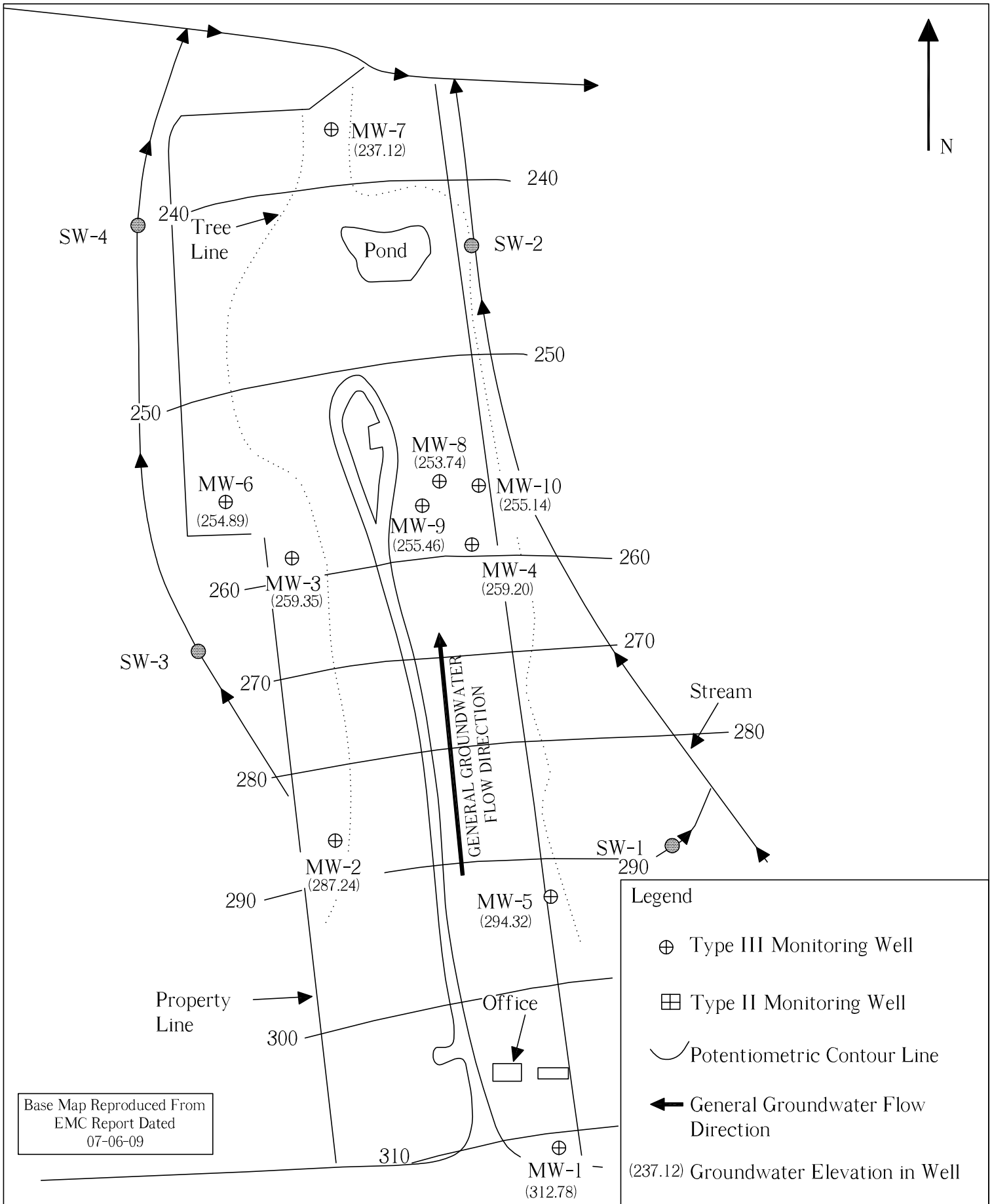
Date Completed	05/04/2010
Created By	M. Clement
Project Name	Semi – Annual Sampling
Site Name	Franklin County
Project Number	G10103.0

Municipal Engineering Services Company, PA

NOTE: Topographical map assembled from corresponding subject region USGS 7.5-min quadrangles Franklinton and Louisburg.



Municipal Services Engineering Company, P.A. P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393 P.O. BOX 349 BOONE, N.C. 28607 (828) 262-1767 P.O. BOX 828 MOREHEAD CITY, N.C. 28557 (252) 726-9481	Author: SMB	Date: 08-02-2010	Title: Site Location Map
	Scale: NTS	Figure: 2	Project: Former Franklin County Landfill (Facility Permit No. 35-01)



Municipal Services Engineering Company, P.A.	Author: SMB	Date: 08-02-2010	Title: Groundwater Potentiometric Map June 22-23, 2010
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393 · P.O. BOX 349 BOONE, N.C. 28607 (828) 262-1767 · P.O. BOX 828 MOREHEAD CITY, N.C. 28557 (252) 726-9481	Scale: NTS	Figure: 3	Project: Former Franklin County Landfill (Facility Permit No. 35-01)

TABLES

TABLE 1
Field Parameter and Sampling Data Sheet

Project: Franklin County Closed

Samplers: Maddie
SMB

Monitoring Point	Sample Date	Sample Time	Sampling Parameters							Water Quality Parameters								
			Target Analytes	Depth to Bottom of Well (BTOP) (Ft)	Depth to Static Water Level (BTOP) (Ft)	Water Column (Ft)	Recommended minimum purge volume (Water column (ft) x 0.5 gals/ft)	Volume Purged (Gal)		Goes Dry During Purge	CO2 (mg/l)	DO (mg/L)	ORP	pH	Temp. ©	Specific Cond. (us/cm)	TDS (mg/L)	Turbidity
MW-1	06/22/10	08:05	App I	40.40	25.45	14.95	7.48	P	10.0		NR	5.20	135.5	5.99	20.3	0.12	0.06	2.1
MW-1D	06/22/10	06:05	App I	70.00	23.75	46.25	23.13	P	15.0		NR	86.20	102.6	7.38	23.2	0.65	0.29	5.1
MW-2	06/22/10	10:50	App I	22.60	11.14	11.46	5.73	P	6.0		NR	68.20	50.8	6.97	18.4	1.25	1.94	89.1
MW-3	06/23/10	09:45	App I	35.40	19.50	15.90	7.95	P	20.0		NR	31.00	-62.1	6.34	18.0	1.15	0.59	26.2
MW-3D	06/23/10	10:15	App I	65.00	13.00	52.00	26.00	P	26.0	PD	NR	195.50	67.2	6.46	21.0	0.98	0.50	13.6
MW-4	06/22/10	15:00	App I	34.60	9.34	25.26	12.63	P	15.0		NR	25.50	281.8	5.48	21.4	0.24	0.13	51.0
MW-4D	06/22/10	14:15	App I	94.00	7.49	86.51	43.26	P	45.0		NR	8.60	191.3	5.09	20.7	1.38	0.20	29.1
MW-4WR	06/22/10	13:55	App I	64.00	10.12	53.88	26.94	P	30.0	PD	NR	1.20	118.0	7.34	25.2	0.72	1.62	5.1
MW-5	06/22/10	09:30	App I	20.00	7.47	12.53	6.27	P	6.5	PD	NR	14.50	62.2	7.80	27.5	1.23	0.63	259.0
MW-6	06/23/10	11:15	App I	18.80	10.00	8.80	4.40	P	5.0		NR	132.50	237.8	4.57	17.9	0.06	0.03	>1000
MW-7	06/22/10	12:00	App I	18.70	9.12	9.58	4.79	P	10.0		NR	173.70	189.0	5.80	23.4	0.07	0.03	942.0
MW-8	06/23/10	08;00	App I	17.50	7.51	9.99	5.00	P	10.0		NR	56.30	7.0	6.40	20.0	0.59	0.30	63.4
MW-9	06/23/10	09:45	App I	24.00	14.20	9.80	4.90	P	10.0		NR	135.00	-5.3	6.39	18.1	1.09	0.57	36.8
MW-10	06/22/10	16:08	App I	19.50	10.04	9.46	4.73	P	6.0		NR	16.40		5.68	19.1	0.34	0.17	266.0
SW-1	06/23/10	12:00	App I	Dry -NS														
SW-2	06/23/10	12:00	App I	Dry -NS														
SW-3	06/23/10	12:00	App I	Dry -NS														
SW-4	06/23/10	12:00	App I	Dry -NS														
Upgradient	06/23/10	12:00	App I	Dry -NS														
Downgradient	06/23/10	12:00	App I	Dry -NS														

SS B=Stainless Steel Baler, D B=Disposable Baler, P=Low flow Pump, PD=Purged Dry

VT=Very Turbid, MT=Moderately Turbid, ST=Slightly Turbid, C=Clear

NR=No Reading Attempted, NS=No Sample Obtained

TABLE 2
STATIC GROUNDWATER LEVELS
Franklin County Closed Landfill
Franklin County, NC
MESCO Project No. G10103.0
August 2, 2010

Monitoring Point	Sample Date	Sample Time	Top of Casing (TOC) Elevation (Feet MSL)	Depth to Static Water Level (Below TOC) (Feet MSL) June 22-23, 2010	Water Elevation (Feet MSL) June 22-23, 2010
MW-1	06/22/10	08:05	338.23	25.45	312.78
MW-1D	06/22/10	06:05	338.71	23.75	314.96
MW-2	06/22/10	10:50	298.38	11.14	287.24
MW-3	06/23/10	09:45	278.85	19.50	259.35
MW-3D	06/23/10	10:15	277.61	13.00	264.61
MW-4	06/22/10	15:00	268.54	9.34	259.20
MW-4D	06/22/10	14:15	268.19	7.49	260.70
MW-4WR	06/22/10	13:55	Unknown	10.12	Unknown
MW-5	06/22/10	09:30	301.79	7.47	294.32
MW-6	06/23/10	11:15	264.89	10.00	254.89
MW-7	06/22/10	12:00	246.24	9.12	237.12
MW-8	06/23/10	08;00	261.25	7.51	253.74
MW-9	06/23/10	09:45	269.66	14.20	255.46
MW-10	06/22/10	16:08	265.18	10.04	255.14

Notes:

1. Top of Casing (TOC) data and well depth data reproduced from historical MACTEC (formerly Law Engineering, Inc.) and Environmental Management & Consulting, Inc.(EMC) reports.

2. TOC elevations and static water level elevations are measured in feet above Mean Sea Level (MSL).

3. MW-4WR TOC elevation was not provided in EMC documents and was not included in the potentiometric contour calculations.

TABLE 3
LABORATORY RESULTS SUMMARY
Franklin County Landfill, Louisburg, NC
MESCO Project No. G10105.0
August 2, 2010

Well ID	Sample Date	Sample Time	Analytical Method	Parameter	Analytical Results (µg/L)	Dilution Factor	2L Standard (µg/L)	SWSL (µg/L)	Exceedance
MW-1	6/22/2010	8:05							
			200.8	Beryllium	0.2	1		1	
				Copper	2.7	1	1000		
				Lead	0.76	1	15		
				Zinc	12	1		10	Naturally occurring
			245.1	Mercury	0.23	1	1		
			200.7	Barium	24	1	700		
MW-1D	6/22/2010	6:55							
			200.8	Antimony	1.1	1		6	
				Arsenic	0.29	1	10		
				Copper	0.8	1	1000		
				Zinc	13	1		10	Naturally occurring
			200.7	Barium	24	1	700		
MW-2	6/22/2010	12:00							
			200.8	Arsenic	2.1	1	10		
				Beryllium	0.26	1		1	
				Cadmium	0.21	1	2		
				Copper	1.9	1	1000		
				Lead	4.3	1	15		
				Selenium	0.74	1		10	
				Zinc	38	1		10	Naturally occurring
			200.7	Barium	980	1	700		
				Chromium	34	1	10		Leachate
				Nickel	59	1	100		
			8260B	Benzene	3.8	1	1		Landfill gas
				Chlorobenzene	20	1	50		
				1,2-Dichlorobenzene	0.31	1	20		
				1,4-Dichlorobenzene	2.9	1	60		
MW-3	6/23/2010	9:45							
			200.8	Arsenic	1.6	1	10		
				Selenium	1.8	1		10	
				Zinc	48	1		10	Naturally occurring
			200.7	Barium	690	1	700		
			8260B	Benzene	0.77	1	1		
				Chlorobenzene	3.2	1	50		
MW-3D	6/23/2010	10:15							
			200.8	Arsenic	1.4	1	10		
				Copper	1.3	1	1000		
				Selenium	2.4	1		10	
				Zinc	13	1		10	Naturally occurring
			200.7	Barium	17	1	700		
			8260B	Chlorobenzene	0.57	1	50		
				1,1-Dichloroethane	0.71	1	6		
				cis -1,2-Dichloroethene	1.2	1	70		

TABLE 3
LABORATORY RESULTS SUMMARY
Franklin County Landfill, Louisburg, NC
MESCO Project No. G10105.0
August 2, 2010

Well ID	Sample Date	Sample Time	Analytical Method	Parameter	Analytical Results (µg/L)	Dilution Factor	2L Standard (µg/L)	SWSL (µg/L)	Exceedance
MW-4	6/22/2010	15:00							
			200.8	Arsenic	0.83	1	10		
				Beryllium	0.36	1		1	
				Cadmium	0.2	1	2		
				Copper	0.57	1	1000		
				Lead	0.51	1	15		
				Selenium	0.95	1		10	
				Zinc	50	1		10	Naturally occurring
			200.7	Barium	190	1	700		
			8260B	Benzene	0.66	1	1		
				Chlorobenzene	1.7	1	50		
				1,2-Dichlorobenzene	0.82	1	20		
				cis -1,2-Dichloroethene	2	1	70		
MW-4WR	6/22/2010	13:55							
			200.8	Arsenic	5.6	1	10		
				Lead	0.87	1	15		
				Selenium	0.64	1		10	
				Zinc	9.8	1		10	
			200.7	Barium	92	1	700		
				Benzene	1.4		1		
			8260B	Chlorobenzene	6.9	1	50		
				1,4-Dichlorobenzene	2	1	60		
				1,1-Dichloroethane	1	1	6		
				cis -1,2-Dichloroethene	0.96	1	70		
				Vinyl chloride	7.4	1	0.03		Landfill gas
MW-4D	6/22/2010	14:15							
			200.8	Arsenic	2.4	1	10		
				Lead	1.5	1	15		
				Selenium	0.65	1		10	
				Zinc	6.8	1		10	
			200.7	Barium	24	1	700		
			8260B	Chlorobenzene	0.99	1	50		
				1,4-Dichlorobenzene	0.39	1	60		
				1,1-Dichloroethane	0.48	1	6		
MW-5	6/22/2010	9:30							
			200.8	Antimony	0.29	1		6	
				Arsenic	6.4	1	10		
				Beryllium	0.14	1		1	
				Copper	2	1	1000		
				Lead	3.1	1	15		
				Selenium	11	1		10	
				Zinc	140	1		10	Naturally occurring
			200.7	Barium	460	1	700		
				Chromium	640	1	10		Leachate
				Nickel	350	1	100		Leachate
			8260B	Benzene	2.8	1	1		Landfill gas
				Chlorobenzene	12	1	50		
				Ethylbenzene	0.4	1	600		

TABLE 3
LABORATORY RESULTS SUMMARY
Franklin County Landfill, Louisburg, NC
MESCO Project No. G10105.0
August 2, 2010

Well ID	Sample Date	Sample Time	Analytical Method	Parameter	Analytical Results (µg/L)	Dilution Factor	2L Standard (µg/L)	SWSL (µg/L)	Exceedance
MW-6	6/23/2010	11:15							
			200.8	Arsenic	14	1	10		Naturally occurring
				Beryllium	5.1	1		1	Leachate
				Copper	29	1	1000		
				Lead	110	1	15		Leachate
				Selenium	14	1		10	Naturally occurring
				Zinc	200	1		10	Naturally occurring
			245.1	Mercury	0.3	1	1		
			200.7	Barium	1100	1	700		Naturally occurring
				Chromium	2400	1	10		Leachate
				Nickel	1200	1	100		Leachate
				Vanadium	13	1		25	
			8260B	*cis* -1,2-Dichloroethene	0.36	1	70		
MW-7	6/22/2010	12:00							
			200.8	Arsenic	0.78	1	10		
				Copper	1.2	1	1000		
				Lead	2.7	1	15		
				Selenium	0.98	1		10	
				Zinc	16	1		10	Naturally occurring
			200.7	Barium	45	1	700		
				Chromium	39	1	10		Leachate
				Nickel	23	1	100		
			8260B	Chlorobenzene	0.94	1	50		
MW-8	6/23/2010	8:00							
			200.8	Arsenic	5.1	1	10		
				Copper	3.5	1	1000		
				Lead	1.8	1	15		
				Selenium	1.4	1		10	
				Zinc	29	1		10	Naturally occurring
			200.7	Barium	200	1	700		
				Chromium	17	1	10		Leachate
				Silver	13	1	20		
				Vanadium	14	1		25	
			8260B	Benzene	0.58		1		
				Chlorobenzene	1.7	1	50		
				1,1-Dichloroethane	0.74	1	6		
				cis -1,2-Dichloroethene	0.38	1	70		
				Vinyl chloride	2.2	1	0.03		Landfill gas

TABLE 3
LABORATORY RESULTS SUMMARY
Franklin County Landfill, Louisburg, NC
MESCO Project No. G10105.0
August 2, 2010

Well ID	Sample Date	Sample Time	Analytical Method	Parameter	Analytical Results (µg/L)	Dilution Factor	2L Standard (µg/L)	SWSL (µg/L)	Exceedance
MW-9	6/23/2010	8:45							
			200.8	Arsenic	3.1	1	10		
				Copper	1.2	1	1000		
				Selenium	1.9	1		10	
				Zinc	57	1		10	Naturally occurring
			200.7	Barium	1000	1	700		Naturally occurring
			8260B	Benzene	1.6		1		
				Chlorobenzene	7.3	1	50		
				1,1-Dichloroethane	1.1	1	6		
				Ethylbenzene	0.89	1	600		
				Vinyl chloride	2.1	1	0.03		Landfill gas
MW-10	6/22/2010	16:02							
			200.8	Arsenic	2.7	1	10		
				Beryllium	0.62	1		1	
				Copper	1.6	1	1000		
				Lead	3.4	1	15		
				Selenium	1.4	1		10	
				Zinc	15	1		10	Naturally occurring
			200.7	Barium	100	1	700		
			8260B	1,4-Dichlorobenzene	0.36	1	60		
				Vinyl chloride	0.5	1	0.03		Landfill gas

Notes:
1. Parameters presented are detected at levels above the laboratory method detection limit(s).
2. All detections are presented in micrograms per liter (ug/L).
3. 2L Standards refers to the North Carolina Groundwater Standards as promulgated in 15A NCAC 2L.
4. SWSL refers to Solid Waste Section Limits as established by the Solid Waste Section.
5. Exceedance refers to a preliminary analysis of the cause and/or source of a detection over the resepective 2L Standard or SWSL. The actual source of contamination was not determined as part of this sampling event.

ANALYTICAL LABORATORY REPORT SUMMARY

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mark Brown
Municipal Engineering Services Company
PO Box 97
Garner, NC 27529

Report Summary

Friday July 30, 2010

Report Number: L465897
Samples Received: 06/24/10
Client Project: G10103

Description: Franklin County - Closed Landfill

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Jimmy Hunt

Jimmy Hunt , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002,NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.
Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences.
Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-01

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID : FRANKLIN CO,, NC

Sample ID : MW1D 25.45FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/22/10 06:55

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	1.1	0.21	1.0	ug/l	200.8	06/30/10	1	6
Arsenic	0.29	0.25	1.0	ug/l	200.8	06/30/10	1	10
Beryllium	U	0.12	1.0	ug/l	200.8	06/30/10	1	1
Cadmium	U	0.16	0.50	ug/l	200.8	06/30/10	1	1
Copper	0.80	0.52	2.0	ug/l	200.8	06/30/10	1	10
Lead	U	0.24	1.0	ug/l	200.8	06/30/10	1	10
Selenium	U	0.38	1.0	ug/l	200.8	06/30/10	1	10
Thallium	U	0.19	1.0	ug/l	200.8	06/30/10	1	5.5
Zinc	13.	2.6	10.	ug/l	200.8	06/30/10	1	10
Mercury	U	0.017	0.20	ug/l	245.1	06/27/10	1	.2
Barium	24.	0.80	5.0	ug/l	200.7	06/29/10	1	100
Chromium	U	1.6	10.	ug/l	200.7	06/29/10	1	10
Nickel	U	5.5	20.	ug/l	200.7	06/29/10	1	50
Silver	U	3.2	10.	ug/l	200.7	06/29/10	1	10
Vanadium	U	3.0	10.	ug/l	200.7	06/29/10	1	25
Volatile Organics								
Acetone	U	16.	50.	ug/l	8260B	07/05/10	1	100
Acrylonitrile	U	1.9	10.	ug/l	8260B	07/05/10	1	200
Benzene	U	0.23	1.0	ug/l	8260B	07/05/10	1	1
Bromochloromethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	3
Bromodichloromethane	U	0.23	1.0	ug/l	8260B	07/05/10	1	1
Bromoform	U	0.37	1.0	ug/l	8260B	07/05/10	1	3
Bromomethane	U	1.6	5.0	ug/l	8260B	07/05/10	1	10
Carbon disulfide	U	0.28	1.0	ug/l	8260B	07/05/10	1	100
Carbon tetrachloride	U	0.20	1.0	ug/l	8260B	07/05/10	1	1
Chlorobenzene	U	0.30	1.0	ug/l	8260B	07/05/10	1	3
Chlorodibromomethane	U	0.24	1.0	ug/l	8260B	07/05/10	1	3
Chloroethane	U	0.87	5.0	ug/l	8260B	07/05/10	1	10
Chloroform	U	0.27	5.0	ug/l	8260B	07/05/10	1	5
Chloromethane	U	0.76	2.5	ug/l	8260B	07/05/10	1	1
Dibromomethane	U	0.35	1.0	ug/l	8260B	07/05/10	1	10
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	07/05/10	1	5
1,4-Dichlorobenzene	U	0.31	1.0	ug/l	8260B	07/05/10	1	1
trans-1,4-Dichloro-2-butene	U	0.82	2.5	ug/l	8260B	07/05/10	1	100
1,1-Dichloroethane	U	0.32	1.0	ug/l	8260B	07/05/10	1	5
1,2-Dichloroethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	1
1,1-Dichloroethene	U	0.41	1.0	ug/l	8260B	07/05/10	1	5
cis-1,2-Dichloroethene	U	0.34	1.0	ug/l	8260B	07/05/10	1	5
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l	8260B	07/05/10	1	5

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-01

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID : FRANKLIN CO,, NC

Sample ID : MW1D 25.45FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/22/10 06:55

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
1,2-Dichloropropane	U	0.39	1.0	ug/l	8260B	07/05/10	1	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l	8260B	07/05/10	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	07/05/10	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	07/05/10	1	1
2-Hexanone	U	3.6	10.	ug/l	8260B	07/05/10	1	50
Iodomethane	U	1.9	10.	ug/l	8260B	07/05/10	1	10
2-Butanone (MEK)	U	3.4	10.	ug/l	8260B	07/05/10	1	100
Methylene Chloride	U	0.91	5.0	ug/l	8260B	07/05/10	1	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l	8260B	07/05/10	1	100
Styrene	U	0.24	1.0	ug/l	8260B	07/05/10	1	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l	8260B	07/05/10	1	5
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	3
Tetrachloroethene	U	0.32	1.0	ug/l	8260B	07/05/10	1	1
Toluene	U	0.32	5.0	ug/l	8260B	07/05/10	1	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l	8260B	07/05/10	1	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l	8260B	07/05/10	1	1
Trichloroethene	U	0.31	1.0	ug/l	8260B	07/05/10	1	1
Trichlorofluoromethane	U	1.1	5.0	ug/l	8260B	07/05/10	1	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l	8260B	07/05/10	1	1
Vinyl acetate	U	4.0	10.	ug/l	8260B	07/05/10	1	50
Vinyl chloride	U	0.34	1.0	ug/l	8260B	07/05/10	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	07/05/10	1	5
1,2-Dibromoethane	U	0.27	1.0	ug/l	8260B	07/05/10	1	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l	8260B	07/05/10	1	13
Surrogate Recovery								
Toluene-d8	100.			% Rec.	8260B	07/05/10	1	
Dibromofluoromethane	104.			% Rec.	8260B	07/05/10	1	
4-Bromofluorobenzene	108.			% Rec.	8260B	07/05/10	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-02

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW1 23.75FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/22/10 08:05

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	U	0.21	1.0	ug/l	200.8	06/30/10	1	6
Arsenic	U	0.25	1.0	ug/l	200.8	06/30/10	1	10
Beryllium	0.20	0.12	1.0	ug/l	200.8	06/30/10	1	1
Cadmium	U	0.16	0.50	ug/l	200.8	06/30/10	1	1
Copper	2.7	0.52	2.0	ug/l	200.8	06/30/10	1	10
Lead	0.76	0.24	1.0	ug/l	200.8	06/30/10	1	10
Selenium	U	0.38	1.0	ug/l	200.8	06/30/10	1	10
Thallium	U	0.19	1.0	ug/l	200.8	06/30/10	1	5.5
Zinc	12.	2.6	10.	ug/l	200.8	06/30/10	1	10
Mercury	0.23	0.017	0.20	ug/l	245.1	06/27/10	1	.2
Barium	24.	0.80	5.0	ug/l	200.7	06/29/10	1	100
Chromium	U	1.6	10.	ug/l	200.7	06/29/10	1	10
Nickel	U	5.5	20.	ug/l	200.7	06/29/10	1	50
Silver	U	3.2	10.	ug/l	200.7	06/29/10	1	10
Vanadium	U	3.0	10.	ug/l	200.7	06/29/10	1	25
Volatile Organics								
Acetone	U	16.	50.	ug/l	8260B	07/05/10	1	100
Acrylonitrile	U	1.9	10.	ug/l	8260B	07/05/10	1	200
Benzene	U	0.23	1.0	ug/l	8260B	07/05/10	1	1
Bromochloromethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	3
Bromodichloromethane	U	0.23	1.0	ug/l	8260B	07/05/10	1	1
Bromoform	U	0.37	1.0	ug/l	8260B	07/05/10	1	3
Bromomethane	U	1.6	5.0	ug/l	8260B	07/05/10	1	10
Carbon disulfide	U	0.28	1.0	ug/l	8260B	07/05/10	1	100
Carbon tetrachloride	U	0.20	1.0	ug/l	8260B	07/05/10	1	1
Chlorobenzene	U	0.30	1.0	ug/l	8260B	07/05/10	1	3
Chlorodibromomethane	U	0.24	1.0	ug/l	8260B	07/05/10	1	3
Chloroethane	U	0.87	5.0	ug/l	8260B	07/05/10	1	10
Chloroform	U	0.27	5.0	ug/l	8260B	07/05/10	1	5
Chloromethane	U	0.76	2.5	ug/l	8260B	07/05/10	1	1
Dibromomethane	U	0.35	1.0	ug/l	8260B	07/05/10	1	10
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	07/05/10	1	5
1,4-Dichlorobenzene	U	0.31	1.0	ug/l	8260B	07/05/10	1	1
trans-1,4-Dichloro-2-butene	U	0.82	2.5	ug/l	8260B	07/05/10	1	100
1,1-Dichloroethane	U	0.32	1.0	ug/l	8260B	07/05/10	1	5
1,2-Dichloroethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	1
1,1-Dichloroethene	U	0.41	1.0	ug/l	8260B	07/05/10	1	5
cis-1,2-Dichloroethene	U	0.34	1.0	ug/l	8260B	07/05/10	1	5
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l	8260B	07/05/10	1	5

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-02

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW1 23.75FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/22/10 08:05

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
1,2-Dichloropropane	U	0.39	1.0	ug/l	8260B	07/05/10	1	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l	8260B	07/05/10	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	07/05/10	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	07/05/10	1	1
2-Hexanone	U	3.6	10.	ug/l	8260B	07/05/10	1	50
Iodomethane	U	1.9	10.	ug/l	8260B	07/05/10	1	10
2-Butanone (MEK)	U	3.4	10.	ug/l	8260B	07/05/10	1	100
Methylene Chloride	U	0.91	5.0	ug/l	8260B	07/05/10	1	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l	8260B	07/05/10	1	100
Styrene	U	0.24	1.0	ug/l	8260B	07/05/10	1	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l	8260B	07/05/10	1	5
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	3
Tetrachloroethene	U	0.32	1.0	ug/l	8260B	07/05/10	1	1
Toluene	U	0.32	5.0	ug/l	8260B	07/05/10	1	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l	8260B	07/05/10	1	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l	8260B	07/05/10	1	1
Trichloroethene	U	0.31	1.0	ug/l	8260B	07/05/10	1	1
Trichlorofluoromethane	U	1.1	5.0	ug/l	8260B	07/05/10	1	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l	8260B	07/05/10	1	1
Vinyl acetate	U	4.0	10.	ug/l	8260B	07/05/10	1	50
Vinyl chloride	U	0.34	1.0	ug/l	8260B	07/05/10	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	07/05/10	1	5
1,2-Dibromoethane	U	0.27	1.0	ug/l	8260B	07/05/10	1	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l	8260B	07/05/10	1	13
Surrogate Recovery								
Toluene-d8	101.			% Rec.	8260B	07/05/10	1	
Dibromofluoromethane	104.			% Rec.	8260B	07/05/10	1	
4-Bromofluorobenzene	107.			% Rec.	8260B	07/05/10	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-03

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW-5 7.49FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/22/10 09:30

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	0.29	0.21	1.0	ug/l	200.8	06/30/10	1	6
Arsenic	6.4	0.25	1.0	ug/l	200.8	06/30/10	1	10
Beryllium	0.14	0.12	1.0	ug/l	200.8	06/30/10	1	1
Cadmium	U	0.16	0.50	ug/l	200.8	06/30/10	1	1
Copper	2.0	0.52	2.0	ug/l	200.8	06/30/10	1	10
Lead	3.1	0.24	1.0	ug/l	200.8	06/30/10	1	10
Selenium	11.	0.38	1.0	ug/l	200.8	06/30/10	1	10
Thallium	U	0.19	1.0	ug/l	200.8	06/30/10	1	5.5
Zinc	140	2.6	10.	ug/l	200.8	06/30/10	1	10
Mercury	U	0.017	0.20	ug/l	245.1	06/27/10	1	.2
Barium	460	0.80	5.0	ug/l	200.7	06/29/10	1	100
Chromium	640	1.6	10.	ug/l	200.7	06/29/10	1	10
Nickel	350	5.5	20.	ug/l	200.7	06/29/10	1	50
Silver	U	3.2	10.	ug/l	200.7	06/29/10	1	10
Vanadium	U	3.0	10.	ug/l	200.7	06/29/10	1	25
Volatile Organics								
Acetone	U	16.	50.	ug/l	8260B	07/06/10	1	100
Acrylonitrile	U	1.9	10.	ug/l	8260B	07/06/10	1	200
Benzene	2.8	0.23	1.0	ug/l	8260B	07/06/10	1	1
Bromochloromethane	U	0.25	1.0	ug/l	8260B	07/06/10	1	3
Bromodichloromethane	U	0.23	1.0	ug/l	8260B	07/06/10	1	1
Bromoform	U	0.37	1.0	ug/l	8260B	07/06/10	1	3
Bromomethane	U	1.6	5.0	ug/l	8260B	07/06/10	1	10
Carbon disulfide	U	0.28	1.0	ug/l	8260B	07/06/10	1	100
Carbon tetrachloride	U	0.20	1.0	ug/l	8260B	07/06/10	1	1
Chlorobenzene	12.	0.30	1.0	ug/l	8260B	07/06/10	1	3
Chlorodibromomethane	U	0.24	1.0	ug/l	8260B	07/06/10	1	3
Chloroethane	U	0.87	5.0	ug/l	8260B	07/06/10	1	10
Chloroform	U	0.27	5.0	ug/l	8260B	07/06/10	1	5
Chloromethane	U	0.76	2.5	ug/l	8260B	07/06/10	1	1
Dibromomethane	U	0.35	1.0	ug/l	8260B	07/06/10	1	10
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	07/06/10	1	5
1,4-Dichlorobenzene	U	0.31	1.0	ug/l	8260B	07/06/10	1	1
trans-1,4-Dichloro-2-butene	U	0.82	2.5	ug/l	8260B	07/06/10	1	100
1,1-Dichloroethane	U	0.32	1.0	ug/l	8260B	07/06/10	1	5
1,2-Dichloroethane	U	0.25	1.0	ug/l	8260B	07/06/10	1	1
1,1-Dichloroethene	U	0.41	1.0	ug/l	8260B	07/06/10	1	5
cis-1,2-Dichloroethene	U	0.34	1.0	ug/l	8260B	07/06/10	1	5
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l	8260B	07/06/10	1	5

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
Note:
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REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-03

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW-5 7.49FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/22/10 09:30

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
1,2-Dichloropropane	U	0.39	1.0	ug/l	8260B	07/06/10	1	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l	8260B	07/06/10	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	07/06/10	1	1
Ethylbenzene	0.40	0.22	1.0	ug/l	8260B	07/06/10	1	1
2-Hexanone	U	3.6	10.	ug/l	8260B	07/06/10	1	50
Iodomethane	U	1.9	10.	ug/l	8260B	07/06/10	1	10
2-Butanone (MEK)	U	3.4	10.	ug/l	8260B	07/06/10	1	100
Methylene Chloride	U	0.91	5.0	ug/l	8260B	07/06/10	1	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l	8260B	07/06/10	1	100
Styrene	U	0.24	1.0	ug/l	8260B	07/06/10	1	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l	8260B	07/06/10	1	5
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l	8260B	07/06/10	1	3
Tetrachloroethene	U	0.32	1.0	ug/l	8260B	07/06/10	1	1
Toluene	U	0.32	5.0	ug/l	8260B	07/06/10	1	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l	8260B	07/06/10	1	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l	8260B	07/06/10	1	1
Trichloroethene	U	0.31	1.0	ug/l	8260B	07/06/10	1	1
Trichlorofluoromethane	U	1.1	5.0	ug/l	8260B	07/06/10	1	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l	8260B	07/06/10	1	1
Vinyl acetate	U	4.0	10.	ug/l	8260B	07/06/10	1	50
Vinyl chloride	U	0.34	1.0	ug/l	8260B	07/06/10	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	07/06/10	1	5
1,2-Dibromoethane	U	0.27	1.0	ug/l	8260B	07/06/10	1	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l	8260B	07/06/10	1	13
Surrogate Recovery								
Toluene-d8	109.			% Rec.	8260B	07/06/10	1	
Dibromofluoromethane	113.			% Rec.	8260B	07/06/10	1	
4-Bromofluorobenzene	110.			% Rec.	8260B	07/06/10	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-04

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW-2 11.14FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/22/10 10:50

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	U	0.21	1.0	ug/l	200.8	06/30/10	1	6
Arsenic	2.1	0.25	1.0	ug/l	200.8	06/30/10	1	10
Beryllium	0.26	0.12	1.0	ug/l	200.8	06/30/10	1	1
Cadmium	0.21	0.16	0.50	ug/l	200.8	06/30/10	1	1
Copper	1.9	0.52	2.0	ug/l	200.8	06/30/10	1	10
Lead	4.3	0.24	1.0	ug/l	200.8	06/30/10	1	10
Selenium	0.74	0.38	1.0	ug/l	200.8	06/30/10	1	10
Thallium	U	0.19	1.0	ug/l	200.8	06/30/10	1	5.5
Zinc	38.	2.6	10.	ug/l	200.8	06/30/10	1	10
Mercury	U	0.017	0.20	ug/l	245.1	06/27/10	1	.2
Barium	980	0.80	5.0	ug/l	200.7	06/29/10	1	100
Chromium	34.	1.6	10.	ug/l	200.7	06/29/10	1	10
Nickel	59.	5.5	20.	ug/l	200.7	06/29/10	1	50
Silver	U	3.2	10.	ug/l	200.7	06/29/10	1	10
Vanadium	U	3.0	10.	ug/l	200.7	06/29/10	1	25
Volatile Organics								
Acetone	U	16.	50.	ug/l	8260B	07/05/10	1	100
Acrylonitrile	U	1.9	10.	ug/l	8260B	07/05/10	1	200
Benzene	3.8	0.23	1.0	ug/l	8260B	07/05/10	1	1
Bromochloromethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	3
Bromodichloromethane	U	0.23	1.0	ug/l	8260B	07/05/10	1	1
Bromoform	U	0.37	1.0	ug/l	8260B	07/05/10	1	3
Bromomethane	U	1.6	5.0	ug/l	8260B	07/05/10	1	10
Carbon disulfide	U	0.28	1.0	ug/l	8260B	07/05/10	1	100
Carbon tetrachloride	U	0.20	1.0	ug/l	8260B	07/05/10	1	1
Chlorobenzene	20.	0.30	1.0	ug/l	8260B	07/05/10	1	3
Chlorodibromomethane	U	0.24	1.0	ug/l	8260B	07/05/10	1	3
Chloroethane	U	0.87	5.0	ug/l	8260B	07/05/10	1	10
Chloroform	U	0.27	5.0	ug/l	8260B	07/05/10	1	5
Chloromethane	U	0.76	2.5	ug/l	8260B	07/05/10	1	1
Dibromomethane	U	0.35	1.0	ug/l	8260B	07/05/10	1	10
1,2-Dichlorobenzene	0.31	0.29	1.0	ug/l	8260B	07/05/10	1	5
1,4-Dichlorobenzene	2.9	0.31	1.0	ug/l	8260B	07/05/10	1	1
trans-1,4-Dichloro-2-butene	U	0.82	2.5	ug/l	8260B	07/05/10	1	100
1,1-Dichloroethane	U	0.32	1.0	ug/l	8260B	07/05/10	1	5
1,2-Dichloroethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	1
1,1-Dichloroethene	U	0.41	1.0	ug/l	8260B	07/05/10	1	5
cis-1,2-Dichloroethene	U	0.34	1.0	ug/l	8260B	07/05/10	1	5
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l	8260B	07/05/10	1	5

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-04

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW-2 11.14FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/22/10 10:50

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
1,2-Dichloropropane	U	0.39	1.0	ug/l	8260B	07/05/10	1	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l	8260B	07/05/10	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	07/05/10	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	07/05/10	1	1
2-Hexanone	U	3.6	10.	ug/l	8260B	07/05/10	1	50
Iodomethane	U	1.9	10.	ug/l	8260B	07/05/10	1	10
2-Butanone (MEK)	U	3.4	10.	ug/l	8260B	07/05/10	1	100
Methylene Chloride	U	0.91	5.0	ug/l	8260B	07/05/10	1	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l	8260B	07/05/10	1	100
Styrene	U	0.24	1.0	ug/l	8260B	07/05/10	1	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l	8260B	07/05/10	1	5
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	3
Tetrachloroethene	U	0.32	1.0	ug/l	8260B	07/05/10	1	1
Toluene	U	0.32	5.0	ug/l	8260B	07/05/10	1	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l	8260B	07/05/10	1	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l	8260B	07/05/10	1	1
Trichloroethene	U	0.31	1.0	ug/l	8260B	07/05/10	1	1
Trichlorofluoromethane	U	1.1	5.0	ug/l	8260B	07/05/10	1	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l	8260B	07/05/10	1	1
Vinyl acetate	U	4.0	10.	ug/l	8260B	07/05/10	1	50
Vinyl chloride	U	0.34	1.0	ug/l	8260B	07/05/10	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	07/05/10	1	5
1,2-Dibromoethane	U	0.27	1.0	ug/l	8260B	07/05/10	1	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l	8260B	07/05/10	1	13
Surrogate Recovery								
Toluene-d8	101.			% Rec.	8260B	07/05/10	1	
Dibromofluoromethane	103.			% Rec.	8260B	07/05/10	1	
4-Bromofluorobenzene	111.			% Rec.	8260B	07/05/10	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-05

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW-7 9.12FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/22/10 12:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	U	0.21	1.0	ug/l	200.8	06/30/10	1	6
Arsenic	0.78	0.25	1.0	ug/l	200.8	06/30/10	1	10
Beryllium	U	0.12	1.0	ug/l	200.8	06/30/10	1	1
Cadmium	U	0.16	0.50	ug/l	200.8	06/30/10	1	1
Copper	1.2	0.52	2.0	ug/l	200.8	06/30/10	1	10
Lead	2.7	0.24	1.0	ug/l	200.8	06/30/10	1	10
Selenium	0.98	0.38	1.0	ug/l	200.8	06/30/10	1	10
Thallium	U	0.19	1.0	ug/l	200.8	06/30/10	1	5.5
Zinc	16.	2.6	10.	ug/l	200.8	06/30/10	1	10
Mercury	U	0.017	0.20	ug/l	245.1	06/27/10	1	.2
Barium	45.	0.80	5.0	ug/l	200.7	06/29/10	1	100
Chromium	39.	1.6	10.	ug/l	200.7	06/29/10	1	10
Nickel	23.	5.5	20.	ug/l	200.7	06/29/10	1	50
Silver	U	3.2	10.	ug/l	200.7	06/29/10	1	10
Vanadium	U	3.0	10.	ug/l	200.7	06/29/10	1	25
Volatile Organics								
Acetone	U	16.	50.	ug/l	8260B	07/05/10	1	100
Acrylonitrile	U	1.9	10.	ug/l	8260B	07/05/10	1	200
Benzene	U	0.23	1.0	ug/l	8260B	07/05/10	1	1
Bromochloromethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	3
Bromodichloromethane	U	0.23	1.0	ug/l	8260B	07/05/10	1	1
Bromoform	U	0.37	1.0	ug/l	8260B	07/05/10	1	3
Bromomethane	U	1.6	5.0	ug/l	8260B	07/05/10	1	10
Carbon disulfide	U	0.28	1.0	ug/l	8260B	07/05/10	1	100
Carbon tetrachloride	U	0.20	1.0	ug/l	8260B	07/05/10	1	1
Chlorobenzene	0.94	0.30	1.0	ug/l	8260B	07/05/10	1	3
Chlorodibromomethane	U	0.24	1.0	ug/l	8260B	07/05/10	1	3
Chloroethane	U	0.87	5.0	ug/l	8260B	07/05/10	1	10
Chloroform	U	0.27	5.0	ug/l	8260B	07/05/10	1	5
Chloromethane	U	0.76	2.5	ug/l	8260B	07/05/10	1	1
Dibromomethane	U	0.35	1.0	ug/l	8260B	07/05/10	1	10
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	07/05/10	1	5
1,4-Dichlorobenzene	U	0.31	1.0	ug/l	8260B	07/05/10	1	1
trans-1,4-Dichloro-2-butene	U	0.82	2.5	ug/l	8260B	07/05/10	1	100
1,1-Dichloroethane	U	0.32	1.0	ug/l	8260B	07/05/10	1	5
1,2-Dichloroethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	1
1,1-Dichloroethene	U	0.41	1.0	ug/l	8260B	07/05/10	1	5
cis-1,2-Dichloroethene	U	0.34	1.0	ug/l	8260B	07/05/10	1	5
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l	8260B	07/05/10	1	5

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
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REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-05

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW-7 9.12FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/22/10 12:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
1,2-Dichloropropane	U	0.39	1.0	ug/l	8260B	07/05/10	1	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l	8260B	07/05/10	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	07/05/10	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	07/05/10	1	1
2-Hexanone	U	3.6	10.	ug/l	8260B	07/05/10	1	50
Iodomethane	U	1.9	10.	ug/l	8260B	07/05/10	1	10
2-Butanone (MEK)	U	3.4	10.	ug/l	8260B	07/05/10	1	100
Methylene Chloride	U	0.91	5.0	ug/l	8260B	07/05/10	1	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l	8260B	07/05/10	1	100
Styrene	U	0.24	1.0	ug/l	8260B	07/05/10	1	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l	8260B	07/05/10	1	5
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	3
Tetrachloroethene	U	0.32	1.0	ug/l	8260B	07/05/10	1	1
Toluene	U	0.32	5.0	ug/l	8260B	07/05/10	1	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l	8260B	07/05/10	1	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l	8260B	07/05/10	1	1
Trichloroethene	U	0.31	1.0	ug/l	8260B	07/05/10	1	1
Trichlorofluoromethane	U	1.1	5.0	ug/l	8260B	07/05/10	1	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l	8260B	07/05/10	1	1
Vinyl acetate	U	4.0	10.	ug/l	8260B	07/05/10	1	50
Vinyl chloride	U	0.34	1.0	ug/l	8260B	07/05/10	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	07/05/10	1	5
1,2-Dibromoethane	U	0.27	1.0	ug/l	8260B	07/05/10	1	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l	8260B	07/05/10	1	13
Surrogate Recovery								
Toluene-d8	100.			% Rec.	8260B	07/05/10	1	
Dibromofluoromethane	107.			% Rec.	8260B	07/05/10	1	
4-Bromofluorobenzene	107.			% Rec.	8260B	07/05/10	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-06

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW4WR 10.12FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/22/10 13:55

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	U	0.21	1.0	ug/l	200.8	06/30/10	1	6
Arsenic	5.6	0.25	1.0	ug/l	200.8	06/30/10	1	10
Beryllium	U	0.12	1.0	ug/l	200.8	06/30/10	1	1
Cadmium	U	0.16	0.50	ug/l	200.8	06/30/10	1	1
Copper	U	0.52	2.0	ug/l	200.8	06/30/10	1	10
Lead	0.87	0.24	1.0	ug/l	200.8	06/30/10	1	10
Selenium	0.64	0.38	1.0	ug/l	200.8	06/30/10	1	10
Thallium	U	0.19	1.0	ug/l	200.8	06/30/10	1	5.5
Zinc	9.8	2.6	10.	ug/l	200.8	06/30/10	1	10
Mercury	U	0.017	0.20	ug/l	245.1	06/27/10	1	.2
Barium	92.	0.80	5.0	ug/l	200.7	06/29/10	1	100
Chromium	U	1.6	10.	ug/l	200.7	06/29/10	1	10
Nickel	U	5.5	20.	ug/l	200.7	06/29/10	1	50
Silver	U	3.2	10.	ug/l	200.7	06/29/10	1	10
Vanadium	U	3.0	10.	ug/l	200.7	06/29/10	1	25
Volatile Organics								
Acetone	U	16.	50.	ug/l	8260B	07/05/10	1	100
Acrylonitrile	U	1.9	10.	ug/l	8260B	07/05/10	1	200
Benzene	1.4	0.23	1.0	ug/l	8260B	07/05/10	1	1
Bromochloromethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	3
Bromodichloromethane	U	0.23	1.0	ug/l	8260B	07/05/10	1	1
Bromoform	U	0.37	1.0	ug/l	8260B	07/05/10	1	3
Bromomethane	U	1.6	5.0	ug/l	8260B	07/05/10	1	10
Carbon disulfide	U	0.28	1.0	ug/l	8260B	07/05/10	1	100
Carbon tetrachloride	U	0.20	1.0	ug/l	8260B	07/05/10	1	1
Chlorobenzene	6.9	0.30	1.0	ug/l	8260B	07/05/10	1	3
Chlorodibromomethane	U	0.24	1.0	ug/l	8260B	07/05/10	1	3
Chloroethane	U	0.87	5.0	ug/l	8260B	07/05/10	1	10
Chloroform	U	0.27	5.0	ug/l	8260B	07/05/10	1	5
Chloromethane	U	0.76	2.5	ug/l	8260B	07/05/10	1	1
Dibromomethane	U	0.35	1.0	ug/l	8260B	07/05/10	1	10
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	07/05/10	1	5
1,4-Dichlorobenzene	2.0	0.31	1.0	ug/l	8260B	07/05/10	1	1
trans-1,4-Dichloro-2-butene	U	0.82	2.5	ug/l	8260B	07/05/10	1	100
1,1-Dichloroethane	1.0	0.32	1.0	ug/l	8260B	07/05/10	1	5
1,2-Dichloroethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	1
1,1-Dichloroethene	U	0.41	1.0	ug/l	8260B	07/05/10	1	5
cis-1,2-Dichloroethene	0.96	0.34	1.0	ug/l	8260B	07/05/10	1	5
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l	8260B	07/05/10	1	5

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-06

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW4WR 10.12FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/22/10 13:55

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
1,2-Dichloropropane	U	0.39	1.0	ug/l	8260B	07/05/10	1	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l	8260B	07/05/10	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	07/05/10	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	07/05/10	1	1
2-Hexanone	U	3.6	10.	ug/l	8260B	07/05/10	1	50
Iodomethane	U	1.9	10.	ug/l	8260B	07/05/10	1	10
2-Butanone (MEK)	U	3.4	10.	ug/l	8260B	07/05/10	1	100
Methylene Chloride	U	0.91	5.0	ug/l	8260B	07/05/10	1	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l	8260B	07/05/10	1	100
Styrene	U	0.24	1.0	ug/l	8260B	07/05/10	1	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l	8260B	07/05/10	1	5
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	3
Tetrachloroethene	U	0.32	1.0	ug/l	8260B	07/05/10	1	1
Toluene	U	0.32	5.0	ug/l	8260B	07/05/10	1	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l	8260B	07/05/10	1	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l	8260B	07/05/10	1	1
Trichloroethene	U	0.31	1.0	ug/l	8260B	07/05/10	1	1
Trichlorofluoromethane	U	1.1	5.0	ug/l	8260B	07/05/10	1	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l	8260B	07/05/10	1	1
Vinyl acetate	U	4.0	10.	ug/l	8260B	07/05/10	1	50
Vinyl chloride	7.4	0.34	1.0	ug/l	8260B	07/05/10	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	07/05/10	1	5
1,2-Dibromoethane	U	0.27	1.0	ug/l	8260B	07/05/10	1	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l	8260B	07/05/10	1	13
Surrogate Recovery								
Toluene-d8	101.			% Rec.	8260B	07/05/10	1	
Dibromofluoromethane	104.			% Rec.	8260B	07/05/10	1	
4-Bromofluorobenzene	107.			% Rec.	8260B	07/05/10	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-07

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW4D 7.49FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/22/10 14:15

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	U	0.21	1.0	ug/l	200.8	06/30/10	1	6
Arsenic	2.4	0.25	1.0	ug/l	200.8	06/30/10	1	10
Beryllium	U	0.12	1.0	ug/l	200.8	06/30/10	1	1
Cadmium	U	0.16	0.50	ug/l	200.8	06/30/10	1	1
Copper	U	0.52	2.0	ug/l	200.8	06/30/10	1	10
Lead	1.5	0.24	1.0	ug/l	200.8	06/30/10	1	10
Selenium	0.65	0.38	1.0	ug/l	200.8	06/30/10	1	10
Thallium	U	0.19	1.0	ug/l	200.8	06/30/10	1	5.5
Zinc	6.8	2.6	10.	ug/l	200.8	06/30/10	1	10
Mercury	U	0.017	0.20	ug/l	245.1	06/27/10	1	.2
Barium	24.	0.80	5.0	ug/l	200.7	06/29/10	1	100
Chromium	U	1.6	10.	ug/l	200.7	06/29/10	1	10
Nickel	U	5.5	20.	ug/l	200.7	06/29/10	1	50
Silver	U	3.2	10.	ug/l	200.7	06/29/10	1	10
Vanadium	U	3.0	10.	ug/l	200.7	06/29/10	1	25
Volatile Organics								
Acetone	U	16.	50.	ug/l	8260B	07/05/10	1	100
Acrylonitrile	U	1.9	10.	ug/l	8260B	07/05/10	1	200
Benzene	U	0.23	1.0	ug/l	8260B	07/05/10	1	1
Bromochloromethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	3
Bromodichloromethane	U	0.23	1.0	ug/l	8260B	07/05/10	1	1
Bromoform	U	0.37	1.0	ug/l	8260B	07/05/10	1	3
Bromomethane	U	1.6	5.0	ug/l	8260B	07/05/10	1	10
Carbon disulfide	U	0.28	1.0	ug/l	8260B	07/05/10	1	100
Carbon tetrachloride	U	0.20	1.0	ug/l	8260B	07/05/10	1	1
Chlorobenzene	0.99	0.30	1.0	ug/l	8260B	07/05/10	1	3
Chlorodibromomethane	U	0.24	1.0	ug/l	8260B	07/05/10	1	3
Chloroethane	U	0.87	5.0	ug/l	8260B	07/05/10	1	10
Chloroform	U	0.27	5.0	ug/l	8260B	07/05/10	1	5
Chloromethane	U	0.76	2.5	ug/l	8260B	07/05/10	1	1
Dibromomethane	U	0.35	1.0	ug/l	8260B	07/05/10	1	10
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	07/05/10	1	5
1,4-Dichlorobenzene	0.39	0.31	1.0	ug/l	8260B	07/05/10	1	1
trans-1,4-Dichloro-2-butene	U	0.82	2.5	ug/l	8260B	07/05/10	1	100
1,1-Dichloroethane	0.48	0.32	1.0	ug/l	8260B	07/05/10	1	5
1,2-Dichloroethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	1
1,1-Dichloroethene	U	0.41	1.0	ug/l	8260B	07/05/10	1	5
cis-1,2-Dichloroethene	U	0.34	1.0	ug/l	8260B	07/05/10	1	5
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l	8260B	07/05/10	1	5

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-07

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW4D 7.49FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/22/10 14:15

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
1,2-Dichloropropane	U	0.39	1.0	ug/l	8260B	07/05/10	1	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l	8260B	07/05/10	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	07/05/10	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	07/05/10	1	1
2-Hexanone	U	3.6	10.	ug/l	8260B	07/05/10	1	50
Iodomethane	U	1.9	10.	ug/l	8260B	07/05/10	1	10
2-Butanone (MEK)	U	3.4	10.	ug/l	8260B	07/05/10	1	100
Methylene Chloride	U	0.91	5.0	ug/l	8260B	07/05/10	1	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l	8260B	07/05/10	1	100
Styrene	U	0.24	1.0	ug/l	8260B	07/05/10	1	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l	8260B	07/05/10	1	5
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	3
Tetrachloroethene	U	0.32	1.0	ug/l	8260B	07/05/10	1	1
Toluene	U	0.32	5.0	ug/l	8260B	07/05/10	1	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l	8260B	07/05/10	1	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l	8260B	07/05/10	1	1
Trichloroethene	U	0.31	1.0	ug/l	8260B	07/05/10	1	1
Trichlorofluoromethane	U	1.1	5.0	ug/l	8260B	07/05/10	1	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l	8260B	07/05/10	1	1
Vinyl acetate	U	4.0	10.	ug/l	8260B	07/05/10	1	50
Vinyl chloride	U	0.34	1.0	ug/l	8260B	07/05/10	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	07/05/10	1	5
1,2-Dibromoethane	U	0.27	1.0	ug/l	8260B	07/05/10	1	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l	8260B	07/05/10	1	13
Surrogate Recovery								
Toluene-d8	101.			% Rec.	8260B	07/05/10	1	
Dibromofluoromethane	106.			% Rec.	8260B	07/05/10	1	
4-Bromofluorobenzene	107.			% Rec.	8260B	07/05/10	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-08

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW4 9.34FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/22/10 15:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	U	0.21	1.0	ug/l	200.8	06/30/10	1	6
Arsenic	0.83	0.25	1.0	ug/l	200.8	06/30/10	1	10
Beryllium	0.36	0.12	1.0	ug/l	200.8	06/30/10	1	1
Cadmium	0.20	0.16	0.50	ug/l	200.8	06/30/10	1	1
Copper	0.57	0.52	2.0	ug/l	200.8	06/30/10	1	10
Lead	0.51	0.24	1.0	ug/l	200.8	06/30/10	1	10
Selenium	0.95	0.38	1.0	ug/l	200.8	06/30/10	1	10
Thallium	U	0.19	1.0	ug/l	200.8	06/30/10	1	5.5
Zinc	50.	2.6	10.	ug/l	200.8	06/30/10	1	10
Mercury	U	0.017	0.20	ug/l	245.1	06/27/10	1	.2
Barium	190	0.80	5.0	ug/l	200.7	06/29/10	1	100
Chromium	U	1.6	10.	ug/l	200.7	06/29/10	1	10
Nickel	U	5.5	20.	ug/l	200.7	06/29/10	1	50
Silver	U	3.2	10.	ug/l	200.7	06/29/10	1	10
Vanadium	U	3.0	10.	ug/l	200.7	06/29/10	1	25
Volatile Organics								
Acetone	U	16.	50.	ug/l	8260B	07/05/10	1	100
Acrylonitrile	U	1.9	10.	ug/l	8260B	07/05/10	1	200
Benzene	0.66	0.23	1.0	ug/l	8260B	07/05/10	1	1
Bromochloromethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	3
Bromodichloromethane	U	0.23	1.0	ug/l	8260B	07/05/10	1	1
Bromoform	U	0.37	1.0	ug/l	8260B	07/05/10	1	3
Bromomethane	U	1.6	5.0	ug/l	8260B	07/05/10	1	10
Carbon disulfide	U	0.28	1.0	ug/l	8260B	07/05/10	1	100
Carbon tetrachloride	U	0.20	1.0	ug/l	8260B	07/05/10	1	1
Chlorobenzene	1.7	0.30	1.0	ug/l	8260B	07/05/10	1	3
Chlorodibromomethane	U	0.24	1.0	ug/l	8260B	07/05/10	1	3
Chloroethane	U	0.87	5.0	ug/l	8260B	07/05/10	1	10
Chloroform	U	0.27	5.0	ug/l	8260B	07/05/10	1	5
Chloromethane	U	0.76	2.5	ug/l	8260B	07/05/10	1	1
Dibromomethane	U	0.35	1.0	ug/l	8260B	07/05/10	1	10
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	07/05/10	1	5
1,4-Dichlorobenzene	0.82	0.31	1.0	ug/l	8260B	07/05/10	1	1
trans-1,4-Dichloro-2-butene	U	0.82	2.5	ug/l	8260B	07/05/10	1	100
1,1-Dichloroethane	U	0.32	1.0	ug/l	8260B	07/05/10	1	5
1,2-Dichloroethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	1
1,1-Dichloroethene	U	0.41	1.0	ug/l	8260B	07/05/10	1	5
cis-1,2-Dichloroethene	2.0	0.34	1.0	ug/l	8260B	07/05/10	1	5
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l	8260B	07/05/10	1	5

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-08

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW4 9.34FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/22/10 15:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
1,2-Dichloropropane	U	0.39	1.0	ug/l	8260B	07/05/10	1	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l	8260B	07/05/10	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	07/05/10	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	07/05/10	1	1
2-Hexanone	U	3.6	10.	ug/l	8260B	07/05/10	1	50
Iodomethane	U	1.9	10.	ug/l	8260B	07/05/10	1	10
2-Butanone (MEK)	U	3.4	10.	ug/l	8260B	07/05/10	1	100
Methylene Chloride	U	0.91	5.0	ug/l	8260B	07/05/10	1	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l	8260B	07/05/10	1	100
Styrene	U	0.24	1.0	ug/l	8260B	07/05/10	1	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l	8260B	07/05/10	1	5
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	3
Tetrachloroethene	U	0.32	1.0	ug/l	8260B	07/05/10	1	1
Toluene	U	0.32	5.0	ug/l	8260B	07/05/10	1	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l	8260B	07/05/10	1	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l	8260B	07/05/10	1	1
Trichloroethene	U	0.31	1.0	ug/l	8260B	07/05/10	1	1
Trichlorofluoromethane	U	1.1	5.0	ug/l	8260B	07/05/10	1	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l	8260B	07/05/10	1	1
Vinyl acetate	U	4.0	10.	ug/l	8260B	07/05/10	1	50
Vinyl chloride	U	0.34	1.0	ug/l	8260B	07/05/10	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	07/05/10	1	5
1,2-Dibromoethane	U	0.27	1.0	ug/l	8260B	07/05/10	1	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l	8260B	07/05/10	1	13
Surrogate Recovery								
Toluene-d8	102.			% Rec.	8260B	07/05/10	1	
Dibromofluoromethane	104.			% Rec.	8260B	07/05/10	1	
4-Bromofluorobenzene	105.			% Rec.	8260B	07/05/10	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
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REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-09

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW10 10.04FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/22/10 16:02

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	U	0.21	1.0	ug/l	200.8	06/30/10	1	6
Arsenic	2.7	0.25	1.0	ug/l	200.8	06/30/10	1	10
Beryllium	0.62	0.12	1.0	ug/l	200.8	06/30/10	1	1
Cadmium	U	0.16	0.50	ug/l	200.8	06/30/10	1	1
Copper	1.6	0.52	2.0	ug/l	200.8	06/30/10	1	10
Lead	3.4	0.24	1.0	ug/l	200.8	06/30/10	1	10
Selenium	1.4	0.38	1.0	ug/l	200.8	06/30/10	1	10
Thallium	U	0.19	1.0	ug/l	200.8	06/30/10	1	5.5
Zinc	15.	2.6	10.	ug/l	200.8	06/30/10	1	10
Mercury	U	0.017	0.20	ug/l	245.1	06/27/10	1	.2
Barium	100	0.80	5.0	ug/l	200.7	06/29/10	1	100
Chromium	U	1.6	10.	ug/l	200.7	06/29/10	1	10
Nickel	U	5.5	20.	ug/l	200.7	06/29/10	1	50
Silver	U	3.2	10.	ug/l	200.7	06/29/10	1	10
Vanadium	U	3.0	10.	ug/l	200.7	06/29/10	1	25
Volatile Organics								
Acetone	U	16.	50.	ug/l	8260B	07/05/10	1	100
Acrylonitrile	U	1.9	10.	ug/l	8260B	07/05/10	1	200
Benzene	U	0.23	1.0	ug/l	8260B	07/05/10	1	1
Bromochloromethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	3
Bromodichloromethane	U	0.23	1.0	ug/l	8260B	07/05/10	1	1
Bromoform	U	0.37	1.0	ug/l	8260B	07/05/10	1	3
Bromomethane	U	1.6	5.0	ug/l	8260B	07/05/10	1	10
Carbon disulfide	U	0.28	1.0	ug/l	8260B	07/05/10	1	100
Carbon tetrachloride	U	0.20	1.0	ug/l	8260B	07/05/10	1	1
Chlorobenzene	U	0.30	1.0	ug/l	8260B	07/05/10	1	3
Chlorodibromomethane	U	0.24	1.0	ug/l	8260B	07/05/10	1	3
Chloroethane	U	0.87	5.0	ug/l	8260B	07/05/10	1	10
Chloroform	U	0.27	5.0	ug/l	8260B	07/05/10	1	5
Chloromethane	U	0.76	2.5	ug/l	8260B	07/05/10	1	1
Dibromomethane	U	0.35	1.0	ug/l	8260B	07/05/10	1	10
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	07/05/10	1	5
1,4-Dichlorobenzene	0.36	0.31	1.0	ug/l	8260B	07/05/10	1	1
trans-1,4-Dichloro-2-butene	U	0.82	2.5	ug/l	8260B	07/05/10	1	100
1,1-Dichloroethane	U	0.32	1.0	ug/l	8260B	07/05/10	1	5
1,2-Dichloroethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	1
1,1-Dichloroethene	U	0.41	1.0	ug/l	8260B	07/05/10	1	5
cis-1,2-Dichloroethene	U	0.34	1.0	ug/l	8260B	07/05/10	1	5
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l	8260B	07/05/10	1	5

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-09

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW10 10.04FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/22/10 16:02

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
1,2-Dichloropropane	U	0.39	1.0	ug/l	8260B	07/05/10	1	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l	8260B	07/05/10	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	07/05/10	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	07/05/10	1	1
2-Hexanone	U	3.6	10.	ug/l	8260B	07/05/10	1	50
Iodomethane	U	1.9	10.	ug/l	8260B	07/05/10	1	10
2-Butanone (MEK)	U	3.4	10.	ug/l	8260B	07/05/10	1	100
Methylene Chloride	U	0.91	5.0	ug/l	8260B	07/05/10	1	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l	8260B	07/05/10	1	100
Styrene	U	0.24	1.0	ug/l	8260B	07/05/10	1	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l	8260B	07/05/10	1	5
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l	8260B	07/05/10	1	3
Tetrachloroethene	U	0.32	1.0	ug/l	8260B	07/05/10	1	1
Toluene	U	0.32	5.0	ug/l	8260B	07/05/10	1	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l	8260B	07/05/10	1	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l	8260B	07/05/10	1	1
Trichloroethene	U	0.31	1.0	ug/l	8260B	07/05/10	1	1
Trichlorofluoromethane	U	1.1	5.0	ug/l	8260B	07/05/10	1	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l	8260B	07/05/10	1	1
Vinyl acetate	U	4.0	10.	ug/l	8260B	07/05/10	1	50
Vinyl chloride	0.50	0.34	1.0	ug/l	8260B	07/05/10	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	07/05/10	1	5
1,2-Dibromoethane	U	0.27	1.0	ug/l	8260B	07/05/10	1	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l	8260B	07/05/10	1	13
Surrogate Recovery								
Toluene-d8	101.			% Rec.	8260B	07/05/10	1	
Dibromofluoromethane	107.			% Rec.	8260B	07/05/10	1	
4-Bromofluorobenzene	107.			% Rec.	8260B	07/05/10	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-10

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW-8 7.51FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/23/10 08:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	U	0.27	1.0	ug/l	200.8	06/29/10	1	6
Arsenic	5.1	0.17	1.0	ug/l	200.8	06/29/10	1	10
Beryllium	U	0.28	1.0	ug/l	200.8	06/29/10	1	1
Cadmium	U	0.22	0.50	ug/l	200.8	06/29/10	1	1
Copper	3.5	0.27	1.0	ug/l	200.8	06/29/10	1	10
Lead	1.8	0.26	1.0	ug/l	200.8	06/29/10	1	10
Selenium	1.4	0.32	1.0	ug/l	200.8	06/29/10	1	10
Thallium	U	0.28	1.0	ug/l	200.8	06/29/10	1	5.5
Zinc	29.	1.9	10.	ug/l	200.8	06/29/10	1	10
Mercury	U	0.017	0.20	ug/l	245.1	06/27/10	1	.2
Barium	200	0.80	5.0	ug/l	200.7	06/29/10	1	100
Chromium	17.	1.6	10.	ug/l	200.7	06/29/10	1	10
Nickel	U	5.5	20.	ug/l	200.7	06/29/10	1	50
Silver	13.	3.2	10.	ug/l	200.7	06/29/10	1	10
Vanadium	14.	3.0	10.	ug/l	200.7	06/29/10	1	25
Volatile Organics								
Acetone	U	16.	50.	ug/l	8260B	07/07/10	1	100
Acrylonitrile	U	1.9	10.	ug/l	8260B	07/07/10	1	200
Benzene	0.58	0.23	1.0	ug/l	8260B	07/07/10	1	1
Bromochloromethane	U	0.25	1.0	ug/l	8260B	07/07/10	1	3
Bromodichloromethane	U	0.23	1.0	ug/l	8260B	07/07/10	1	1
Bromoform	U	0.37	1.0	ug/l	8260B	07/07/10	1	3
Bromomethane	U	1.6	5.0	ug/l	8260B	07/07/10	1	10
Carbon disulfide	U	0.28	1.0	ug/l	8260B	07/07/10	1	100
Carbon tetrachloride	U	0.20	1.0	ug/l	8260B	07/07/10	1	1
Chlorobenzene	1.7	0.30	1.0	ug/l	8260B	07/07/10	1	3
Chlorodibromomethane	U	0.24	1.0	ug/l	8260B	07/07/10	1	3
Chloroethane	U	0.87	5.0	ug/l	8260B	07/07/10	1	10
Chloroform	U	0.27	5.0	ug/l	8260B	07/07/10	1	5
Chloromethane	U	0.76	2.5	ug/l	8260B	07/07/10	1	1
Dibromomethane	U	0.35	1.0	ug/l	8260B	07/07/10	1	10
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	07/07/10	1	5
1,4-Dichlorobenzene	U	0.31	1.0	ug/l	8260B	07/07/10	1	1
trans-1,4-Dichloro-2-butene	U	0.82	2.5	ug/l	8260B	07/07/10	1	100
1,1-Dichloroethane	0.74	0.32	1.0	ug/l	8260B	07/07/10	1	5
1,2-Dichloroethane	U	0.25	1.0	ug/l	8260B	07/07/10	1	1
1,1-Dichloroethene	U	0.41	1.0	ug/l	8260B	07/07/10	1	5
cis-1,2-Dichloroethene	0.38	0.34	1.0	ug/l	8260B	07/07/10	1	5
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l	8260B	07/07/10	1	5

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-10

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW-8 7.51FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/23/10 08:00

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
1,2-Dichloropropane	U	0.39	1.0	ug/l	8260B	07/07/10	1	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l	8260B	07/07/10	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	07/07/10	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	07/07/10	1	1
2-Hexanone	U	3.6	10.	ug/l	8260B	07/07/10	1	50
Iodomethane	U	1.9	10.	ug/l	8260B	07/07/10	1	10
2-Butanone (MEK)	U	3.4	10.	ug/l	8260B	07/07/10	1	100
Methylene Chloride	U	0.91	5.0	ug/l	8260B	07/07/10	1	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l	8260B	07/07/10	1	100
Styrene	U	0.24	1.0	ug/l	8260B	07/07/10	1	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l	8260B	07/07/10	1	5
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l	8260B	07/07/10	1	3
Tetrachloroethene	U	0.32	1.0	ug/l	8260B	07/07/10	1	1
Toluene	U	0.32	5.0	ug/l	8260B	07/07/10	1	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l	8260B	07/07/10	1	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l	8260B	07/07/10	1	1
Trichloroethene	U	0.31	1.0	ug/l	8260B	07/07/10	1	1
Trichlorofluoromethane	U	1.1	5.0	ug/l	8260B	07/07/10	1	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l	8260B	07/07/10	1	1
Vinyl acetate	U	4.0	10.	ug/l	8260B	07/07/10	1	50
Vinyl chloride	2.2	0.34	1.0	ug/l	8260B	07/07/10	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	07/07/10	1	5
1,2-Dibromoethane	U	0.27	1.0	ug/l	8260B	07/07/10	1	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l	8260B	07/07/10	1	13
Surrogate Recovery								
Toluene-d8	109.			% Rec.	8260B	07/07/10	1	
Dibromofluoromethane	116.			% Rec.	8260B	07/07/10	1	
4-Bromofluorobenzene	107.			% Rec.	8260B	07/07/10	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
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REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-11

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW-9 14.2FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/23/10 08:45

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	U	0.27	1.0	ug/l	200.8	06/29/10	1	6
Arsenic	3.1	0.17	1.0	ug/l	200.8	06/29/10	1	10
Beryllium	U	0.28	1.0	ug/l	200.8	06/29/10	1	1
Cadmium	U	0.22	0.50	ug/l	200.8	06/29/10	1	1
Copper	1.2	0.27	1.0	ug/l	200.8	06/29/10	1	10
Lead	U	0.26	1.0	ug/l	200.8	06/29/10	1	10
Selenium	1.9	0.32	1.0	ug/l	200.8	06/29/10	1	10
Thallium	U	0.28	1.0	ug/l	200.8	06/29/10	1	5.5
Zinc	57.	1.9	10.	ug/l	200.8	06/29/10	1	10
Mercury	U	0.017	0.20	ug/l	245.1	06/27/10	1	.2
Barium	1000	0.80	5.0	ug/l	200.7	06/29/10	1	100
Chromium	U	1.6	10.	ug/l	200.7	06/29/10	1	10
Nickel	U	5.5	20.	ug/l	200.7	06/29/10	1	50
Silver	U	3.2	10.	ug/l	200.7	06/29/10	1	10
Vanadium	U	3.0	10.	ug/l	200.7	06/29/10	1	25
Volatile Organics								
Acetone	U	16.	50.	ug/l	8260B	07/07/10	1	100
Acrylonitrile	U	1.9	10.	ug/l	8260B	07/07/10	1	200
Benzene	1.6	0.23	1.0	ug/l	8260B	07/07/10	1	1
Bromochloromethane	U	0.25	1.0	ug/l	8260B	07/07/10	1	3
Bromodichloromethane	U	0.23	1.0	ug/l	8260B	07/07/10	1	1
Bromoform	U	0.37	1.0	ug/l	8260B	07/07/10	1	3
Bromomethane	U	1.6	5.0	ug/l	8260B	07/07/10	1	10
Carbon disulfide	U	0.28	1.0	ug/l	8260B	07/07/10	1	100
Carbon tetrachloride	U	0.20	1.0	ug/l	8260B	07/07/10	1	1
Chlorobenzene	7.3	0.30	1.0	ug/l	8260B	07/07/10	1	3
Chlorodibromomethane	U	0.24	1.0	ug/l	8260B	07/07/10	1	3
Chloroethane	U	0.87	5.0	ug/l	8260B	07/07/10	1	10
Chloroform	U	0.27	5.0	ug/l	8260B	07/07/10	1	5
Chloromethane	U	0.76	2.5	ug/l	8260B	07/07/10	1	1
Dibromomethane	U	0.35	1.0	ug/l	8260B	07/07/10	1	10
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	07/07/10	1	5
1,4-Dichlorobenzene	U	0.31	1.0	ug/l	8260B	07/07/10	1	1
trans-1,4-Dichloro-2-butene	U	0.82	2.5	ug/l	8260B	07/07/10	1	100
1,1-Dichloroethane	1.1	0.32	1.0	ug/l	8260B	07/07/10	1	5
1,2-Dichloroethane	U	0.25	1.0	ug/l	8260B	07/07/10	1	1
1,1-Dichloroethene	U	0.41	1.0	ug/l	8260B	07/07/10	1	5
cis-1,2-Dichloroethene	U	0.34	1.0	ug/l	8260B	07/07/10	1	5
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l	8260B	07/07/10	1	5

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
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REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-11

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW-9 14.2FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/23/10 08:45

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
1,2-Dichloropropane	U	0.39	1.0	ug/l	8260B	07/07/10	1	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l	8260B	07/07/10	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	07/07/10	1	1
Ethylbenzene	0.89	0.22	1.0	ug/l	8260B	07/07/10	1	1
2-Hexanone	U	3.6	10.	ug/l	8260B	07/07/10	1	50
Iodomethane	U	1.9	10.	ug/l	8260B	07/07/10	1	10
2-Butanone (MEK)	U	3.4	10.	ug/l	8260B	07/07/10	1	100
Methylene Chloride	U	0.91	5.0	ug/l	8260B	07/07/10	1	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l	8260B	07/07/10	1	100
Styrene	U	0.24	1.0	ug/l	8260B	07/07/10	1	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l	8260B	07/07/10	1	5
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l	8260B	07/07/10	1	3
Tetrachloroethene	U	0.32	1.0	ug/l	8260B	07/07/10	1	1
Toluene	U	0.32	5.0	ug/l	8260B	07/07/10	1	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l	8260B	07/07/10	1	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l	8260B	07/07/10	1	1
Trichloroethene	U	0.31	1.0	ug/l	8260B	07/07/10	1	1
Trichlorofluoromethane	U	1.1	5.0	ug/l	8260B	07/07/10	1	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l	8260B	07/07/10	1	1
Vinyl acetate	U	4.0	10.	ug/l	8260B	07/07/10	1	50
Vinyl chloride	2.1	0.34	1.0	ug/l	8260B	07/07/10	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	07/07/10	1	5
1,2-Dibromoethane	U	0.27	1.0	ug/l	8260B	07/07/10	1	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l	8260B	07/07/10	1	13
Surrogate Recovery								
Toluene-d8	111.			% Rec.	8260B	07/07/10	1	
Dibromofluoromethane	115.			% Rec.	8260B	07/07/10	1	
4-Bromofluorobenzene	106.			% Rec.	8260B	07/07/10	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-12

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW-3 19.5FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/23/10 09:45

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	U	0.27	1.0	ug/l	200.8	06/29/10	1	6
Arsenic	1.6	0.17	1.0	ug/l	200.8	06/29/10	1	10
Beryllium	U	0.28	1.0	ug/l	200.8	06/29/10	1	1
Cadmium	U	0.22	0.50	ug/l	200.8	06/29/10	1	1
Copper	U	0.27	1.0	ug/l	200.8	06/29/10	1	10
Lead	U	0.26	1.0	ug/l	200.8	06/29/10	1	10
Selenium	1.8	0.32	1.0	ug/l	200.8	06/29/10	1	10
Thallium	U	0.28	1.0	ug/l	200.8	06/29/10	1	5.5
Zinc	48.	1.9	10.	ug/l	200.8	06/29/10	1	10
Mercury	U	0.017	0.20	ug/l	245.1	06/27/10	1	.2
Barium	690	0.80	5.0	ug/l	200.7	06/29/10	1	100
Chromium	U	1.6	10.	ug/l	200.7	06/29/10	1	10
Nickel	U	5.5	20.	ug/l	200.7	06/29/10	1	50
Silver	U	3.2	10.	ug/l	200.7	06/29/10	1	10
Vanadium	U	3.0	10.	ug/l	200.7	06/29/10	1	25
Volatile Organics								
Acetone	U	16.	50.	ug/l	8260B	07/07/10	1	100
Acrylonitrile	U	1.9	10.	ug/l	8260B	07/07/10	1	200
Benzene	0.77	0.23	1.0	ug/l	8260B	07/07/10	1	1
Bromochloromethane	U	0.25	1.0	ug/l	8260B	07/07/10	1	3
Bromodichloromethane	U	0.23	1.0	ug/l	8260B	07/07/10	1	1
Bromoform	U	0.37	1.0	ug/l	8260B	07/07/10	1	3
Bromomethane	U	1.6	5.0	ug/l	8260B	07/07/10	1	10
Carbon disulfide	U	0.28	1.0	ug/l	8260B	07/07/10	1	100
Carbon tetrachloride	U	0.20	1.0	ug/l	8260B	07/07/10	1	1
Chlorobenzene	3.2	0.30	1.0	ug/l	8260B	07/07/10	1	3
Chlorodibromomethane	U	0.24	1.0	ug/l	8260B	07/07/10	1	3
Chloroethane	U	0.87	5.0	ug/l	8260B	07/07/10	1	10
Chloroform	U	0.27	5.0	ug/l	8260B	07/07/10	1	5
Chloromethane	U	0.76	2.5	ug/l	8260B	07/07/10	1	1
Dibromomethane	U	0.35	1.0	ug/l	8260B	07/07/10	1	10
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	07/07/10	1	5
1,4-Dichlorobenzene	U	0.31	1.0	ug/l	8260B	07/07/10	1	1
trans-1,4-Dichloro-2-butene	U	0.82	2.5	ug/l	8260B	07/07/10	1	100
1,1-Dichloroethane	U	0.32	1.0	ug/l	8260B	07/07/10	1	5
1,2-Dichloroethane	U	0.25	1.0	ug/l	8260B	07/07/10	1	1
1,1-Dichloroethene	U	0.41	1.0	ug/l	8260B	07/07/10	1	5
cis-1,2-Dichloroethene	U	0.34	1.0	ug/l	8260B	07/07/10	1	5
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l	8260B	07/07/10	1	5

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-12

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW-3 19.5FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/23/10 09:45

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
1,2-Dichloropropane	U	0.39	1.0	ug/l	8260B	07/07/10	1	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l	8260B	07/07/10	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	07/07/10	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	07/07/10	1	1
2-Hexanone	U	3.6	10.	ug/l	8260B	07/07/10	1	50
Iodomethane	U	1.9	10.	ug/l	8260B	07/07/10	1	10
2-Butanone (MEK)	U	3.4	10.	ug/l	8260B	07/07/10	1	100
Methylene Chloride	U	0.91	5.0	ug/l	8260B	07/07/10	1	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l	8260B	07/07/10	1	100
Styrene	U	0.24	1.0	ug/l	8260B	07/07/10	1	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l	8260B	07/07/10	1	5
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l	8260B	07/07/10	1	3
Tetrachloroethene	U	0.32	1.0	ug/l	8260B	07/07/10	1	1
Toluene	U	0.32	5.0	ug/l	8260B	07/07/10	1	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l	8260B	07/07/10	1	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l	8260B	07/07/10	1	1
Trichloroethene	U	0.31	1.0	ug/l	8260B	07/07/10	1	1
Trichlorofluoromethane	U	1.1	5.0	ug/l	8260B	07/07/10	1	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l	8260B	07/07/10	1	1
Vinyl acetate	U	4.0	10.	ug/l	8260B	07/07/10	1	50
Vinyl chloride	U	0.34	1.0	ug/l	8260B	07/07/10	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	07/07/10	1	5
1,2-Dibromoethane	U	0.27	1.0	ug/l	8260B	07/07/10	1	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l	8260B	07/07/10	1	13
Surrogate Recovery								
Toluene-d8	109.			% Rec.	8260B	07/07/10	1	
Dibromofluoromethane	115.			% Rec.	8260B	07/07/10	1	
4-Bromofluorobenzene	109.			% Rec.	8260B	07/07/10	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-13

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW-3D 13.0FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/23/10 10:15

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	U	0.27	1.0	ug/l	200.8	06/29/10	1	6
Arsenic	1.4	0.17	1.0	ug/l	200.8	06/29/10	1	10
Beryllium	U	0.28	1.0	ug/l	200.8	06/29/10	1	1
Cadmium	U	0.22	0.50	ug/l	200.8	06/29/10	1	1
Copper	1.3	0.27	1.0	ug/l	200.8	06/29/10	1	10
Lead	U	0.26	1.0	ug/l	200.8	06/29/10	1	10
Selenium	2.4	0.32	1.0	ug/l	200.8	06/29/10	1	10
Thallium	U	0.28	1.0	ug/l	200.8	06/29/10	1	5.5
Zinc	13.	1.9	10.	ug/l	200.8	06/29/10	1	10
Mercury	U	0.034	0.40	ug/l	245.1	06/27/10	2	.2
Barium	17.	0.80	5.0	ug/l	200.7	06/29/10	1	100
Chromium	U	1.6	10.	ug/l	200.7	06/29/10	1	10
Nickel	U	5.5	20.	ug/l	200.7	06/29/10	1	50
Silver	U	3.2	10.	ug/l	200.7	06/29/10	1	10
Vanadium	U	3.0	10.	ug/l	200.7	06/29/10	1	25
Volatile Organics								
Acetone	U	16.	50.	ug/l	8260B	07/07/10	1	100
Acrylonitrile	U	1.9	10.	ug/l	8260B	07/07/10	1	200
Benzene	U	0.23	1.0	ug/l	8260B	07/07/10	1	1
Bromochloromethane	U	0.25	1.0	ug/l	8260B	07/07/10	1	3
Bromodichloromethane	U	0.23	1.0	ug/l	8260B	07/07/10	1	1
Bromoform	U	0.37	1.0	ug/l	8260B	07/07/10	1	3
Bromomethane	U	1.6	5.0	ug/l	8260B	07/07/10	1	10
Carbon disulfide	U	0.28	1.0	ug/l	8260B	07/07/10	1	100
Carbon tetrachloride	U	0.20	1.0	ug/l	8260B	07/07/10	1	1
Chlorobenzene	0.57	0.30	1.0	ug/l	8260B	07/07/10	1	3
Chlorodibromomethane	U	0.24	1.0	ug/l	8260B	07/07/10	1	3
Chloroethane	U	0.87	5.0	ug/l	8260B	07/07/10	1	10
Chloroform	U	0.27	5.0	ug/l	8260B	07/07/10	1	5
Chloromethane	U	0.76	2.5	ug/l	8260B	07/07/10	1	1
Dibromomethane	U	0.35	1.0	ug/l	8260B	07/07/10	1	10
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	07/07/10	1	5
1,4-Dichlorobenzene	U	0.31	1.0	ug/l	8260B	07/07/10	1	1
trans-1,4-Dichloro-2-butene	U	0.82	2.5	ug/l	8260B	07/07/10	1	100
1,1-Dichloroethane	0.71	0.32	1.0	ug/l	8260B	07/07/10	1	5
1,2-Dichloroethane	U	0.25	1.0	ug/l	8260B	07/07/10	1	1
1,1-Dichloroethene	U	0.41	1.0	ug/l	8260B	07/07/10	1	5
cis-1,2-Dichloroethene	1.2	0.34	1.0	ug/l	8260B	07/07/10	1	5
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l	8260B	07/07/10	1	5

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-13

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID :

Sample ID : MW-3D 13.0FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/23/10 10:15

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
1,2-Dichloropropane	U	0.39	1.0	ug/l	8260B	07/07/10	1	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l	8260B	07/07/10	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	07/07/10	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	07/07/10	1	1
2-Hexanone	U	3.6	10.	ug/l	8260B	07/07/10	1	50
Iodomethane	U	1.9	10.	ug/l	8260B	07/07/10	1	10
2-Butanone (MEK)	U	3.4	10.	ug/l	8260B	07/07/10	1	100
Methylene Chloride	U	0.91	5.0	ug/l	8260B	07/07/10	1	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l	8260B	07/07/10	1	100
Styrene	U	0.24	1.0	ug/l	8260B	07/07/10	1	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l	8260B	07/07/10	1	5
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l	8260B	07/07/10	1	3
Tetrachloroethene	U	0.32	1.0	ug/l	8260B	07/07/10	1	1
Toluene	U	0.32	5.0	ug/l	8260B	07/07/10	1	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l	8260B	07/07/10	1	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l	8260B	07/07/10	1	1
Trichloroethene	U	0.31	1.0	ug/l	8260B	07/07/10	1	1
Trichlorofluoromethane	U	1.1	5.0	ug/l	8260B	07/07/10	1	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l	8260B	07/07/10	1	1
Vinyl acetate	U	4.0	10.	ug/l	8260B	07/07/10	1	50
Vinyl chloride	U	0.34	1.0	ug/l	8260B	07/07/10	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	07/07/10	1	5
1,2-Dibromoethane	U	0.27	1.0	ug/l	8260B	07/07/10	1	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l	8260B	07/07/10	1	13
Surrogate Recovery								
Toluene-d8	110.			% Rec.	8260B	07/07/10	1	
Dibromofluoromethane	117.			% Rec.	8260B	07/07/10	1	
4-Bromofluorobenzene	106.			% Rec.	8260B	07/07/10	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
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REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-14

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID : FRANKLIN CO,, NC

Sample ID : MW-6 10.0FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/23/10 11:15

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
Antimony	U	0.27	1.0	ug/l	200.8	06/29/10	1	6
Arsenic	14.	0.17	1.0	ug/l	200.8	06/29/10	1	10
Beryllium	5.1	0.28	1.0	ug/l	200.8	06/29/10	1	1
Cadmium	U	0.22	0.50	ug/l	200.8	06/29/10	1	1
Copper	29.	0.27	1.0	ug/l	200.8	06/29/10	1	10
Lead	110	0.26	1.0	ug/l	200.8	06/29/10	1	10
Selenium	14.	0.32	1.0	ug/l	200.8	06/29/10	1	10
Thallium	U	0.28	1.0	ug/l	200.8	06/29/10	1	5.5
Zinc	200	1.9	10.	ug/l	200.8	06/29/10	1	10
Mercury	0.30	0.017	0.20	ug/l	245.1	06/27/10	1	.2
Barium	1100	0.80	5.0	ug/l	200.7	06/29/10	1	100
Chromium	2400	1.6	10.	ug/l	200.7	06/29/10	1	10
Nickel	1200	5.5	20.	ug/l	200.7	06/29/10	1	50
Silver	U	3.2	10.	ug/l	200.7	06/29/10	1	10
Vanadium	13.	3.0	10.	ug/l	200.7	06/29/10	1	25
Volatile Organics								
Acetone	U	16.	50.	ug/l	8260B	07/07/10	1	100
Acrylonitrile	U	1.9	10.	ug/l	8260B	07/07/10	1	200
Benzene	U	0.23	1.0	ug/l	8260B	07/07/10	1	1
Bromochloromethane	U	0.25	1.0	ug/l	8260B	07/07/10	1	3
Bromodichloromethane	U	0.23	1.0	ug/l	8260B	07/07/10	1	1
Bromoform	U	0.37	1.0	ug/l	8260B	07/07/10	1	3
Bromomethane	U	1.6	5.0	ug/l	8260B	07/07/10	1	10
Carbon disulfide	U	0.28	1.0	ug/l	8260B	07/07/10	1	100
Carbon tetrachloride	U	0.20	1.0	ug/l	8260B	07/07/10	1	1
Chlorobenzene	U	0.30	1.0	ug/l	8260B	07/07/10	1	3
Chlorodibromomethane	U	0.24	1.0	ug/l	8260B	07/07/10	1	3
Chloroethane	U	0.87	5.0	ug/l	8260B	07/07/10	1	10
Chloroform	U	0.27	5.0	ug/l	8260B	07/07/10	1	5
Chloromethane	U	0.76	2.5	ug/l	8260B	07/07/10	1	1
Dibromomethane	U	0.35	1.0	ug/l	8260B	07/07/10	1	10
1,2-Dichlorobenzene	U	0.29	1.0	ug/l	8260B	07/07/10	1	5
1,4-Dichlorobenzene	U	0.31	1.0	ug/l	8260B	07/07/10	1	1
trans-1,4-Dichloro-2-butene	U	0.82	2.5	ug/l	8260B	07/07/10	1	100
1,1-Dichloroethane	U	0.32	1.0	ug/l	8260B	07/07/10	1	5
1,2-Dichloroethane	U	0.25	1.0	ug/l	8260B	07/07/10	1	1
1,1-Dichloroethene	U	0.41	1.0	ug/l	8260B	07/07/10	1	5
cis-1,2-Dichloroethene	0.36	0.34	1.0	ug/l	8260B	07/07/10	1	5
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l	8260B	07/07/10	1	5

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
Note:
The reported analytical results relate only to the sample submitted.
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.
Reported: 07/30/10 12:13 Printed: 07/30/10 12:14

12065 Lebanon Rd.
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mark Brown
Municipal Engineering Services Comp
PO Box 97
Garner, NC 27529

July 30, 2010

ESC Sample # : L465897-14

Date Received : June 24, 2010
Description : Franklin County - Closed Landfill

Site ID : FRANKLIN CO,, NC

Sample ID : MW-6 10.0FT

Project # : G10103

Collected By : Mark Brown
Collection Date : 06/23/10 11:15

Parameter	Result	MDL	RDL	Units	Method	Date	Dil.	SWSL
1,2-Dichloropropane	U	0.39	1.0	ug/l	8260B	07/07/10	1	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l	8260B	07/07/10	1	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l	8260B	07/07/10	1	1
Ethylbenzene	U	0.22	1.0	ug/l	8260B	07/07/10	1	1
2-Hexanone	U	3.6	10.	ug/l	8260B	07/07/10	1	50
Iodomethane	U	1.9	10.	ug/l	8260B	07/07/10	1	10
2-Butanone (MEK)	U	3.4	10.	ug/l	8260B	07/07/10	1	100
Methylene Chloride	U	0.91	5.0	ug/l	8260B	07/07/10	1	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l	8260B	07/07/10	1	100
Styrene	U	0.24	1.0	ug/l	8260B	07/07/10	1	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l	8260B	07/07/10	1	5
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l	8260B	07/07/10	1	3
Tetrachloroethene	U	0.32	1.0	ug/l	8260B	07/07/10	1	1
Toluene	U	0.32	5.0	ug/l	8260B	07/07/10	1	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l	8260B	07/07/10	1	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l	8260B	07/07/10	1	1
Trichloroethene	U	0.31	1.0	ug/l	8260B	07/07/10	1	1
Trichlorofluoromethane	U	1.1	5.0	ug/l	8260B	07/07/10	1	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l	8260B	07/07/10	1	1
Vinyl acetate	U	4.0	10.	ug/l	8260B	07/07/10	1	50
Vinyl chloride	U	0.34	1.0	ug/l	8260B	07/07/10	1	1
Xylenes, Total	U	0.86	3.0	ug/l	8260B	07/07/10	1	5
1,2-Dibromoethane	U	0.27	1.0	ug/l	8260B	07/07/10	1	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l	8260B	07/07/10	1	13
Surrogate Recovery								
Toluene-d8	110.			% Rec.	8260B	07/07/10	1	
Dibromofluoromethane	117.			% Rec.	8260B	07/07/10	1	
4-Bromofluorobenzene	105.			% Rec.	8260B	07/07/10	1	

U = ND (Not Detected)
SWSL = Solid Waste Section Limit
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)
Note:
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Reported: 07/30/10 12:13 Printed: 07/30/10 12:14

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L465897-01	WG485547	SAMP	Arsenic	R1273395	J
	WG485547	SAMP	Copper	R1273395	J
	WG485547	SAMP	Zinc	R1273395	P1
L465897-02	WG485547	SAMP	Beryllium	R1273395	J
	WG485547	SAMP	Lead	R1273395	J
L465897-03	WG485547	SAMP	Antimony	R1273395	J
	WG485547	SAMP	Beryllium	R1273395	J
	WG485547	SAMP	Copper	R1273395	J
	WG487207	SAMP	Ethylbenzene	R1277429	J
L465897-04	WG485547	SAMP	Beryllium	R1273395	J
	WG485547	SAMP	Cadmium	R1273395	J
	WG485547	SAMP	Copper	R1273395	J
	WG485547	SAMP	Selenium	R1273395	J
	WG486940	SAMP	1,2-Dichlorobenzene	R1276248	J
L465897-05	WG485547	SAMP	Arsenic	R1273395	J
	WG485547	SAMP	Copper	R1273395	J
	WG485547	SAMP	Selenium	R1273395	J
	WG486940	SAMP	Chlorobenzene	R1276248	J
L465897-06	WG485547	SAMP	Lead	R1273395	J
	WG485547	SAMP	Selenium	R1273395	J
	WG485547	SAMP	Zinc	R1273395	J
	WG486940	SAMP	cis-1,2-Dichloroethene	R1276248	J
L465897-07	WG485547	SAMP	Selenium	R1273395	J
	WG485547	SAMP	Zinc	R1273395	J
	WG486940	SAMP	Chlorobenzene	R1276248	J
	WG486940	SAMP	1,4-Dichlorobenzene	R1276248	J
	WG486940	SAMP	1,1-Dichloroethane	R1276248	J
L465897-08	WG485547	SAMP	Arsenic	R1273395	J
	WG485547	SAMP	Beryllium	R1273395	J
	WG485547	SAMP	Cadmium	R1273395	J
	WG485547	SAMP	Copper	R1273395	J
	WG485547	SAMP	Lead	R1273395	J
	WG485547	SAMP	Selenium	R1273395	J
	WG486940	SAMP	Benzene	R1276248	J
	WG486940	SAMP	1,4-Dichlorobenzene	R1276248	J
L465897-09	WG485547	SAMP	Beryllium	R1273395	J
	WG485547	SAMP	Copper	R1273395	J
	WG486940	SAMP	1,4-Dichlorobenzene	R1276248	J
	WG486940	SAMP	Vinyl chloride	R1276248	J
L465897-10	WG487207	SAMP	Benzene	R1277429	J
	WG487207	SAMP	1,1-Dichloroethane	R1277429	J
	WG487207	SAMP	cis-1,2-Dichloroethene	R1277429	J
L465897-11	WG487207	SAMP	Ethylbenzene	R1277429	J
L465897-12	WG487207	SAMP	Benzene	R1277429	J
L465897-13	WG485608	SAMP	Mercury	R1270351	O
	WG487207	SAMP	Chlorobenzene	R1277429	J
	WG487207	SAMP	1,1-Dichloroethane	R1277429	J
L465897-14	WG487207	SAMP	cis-1,2-Dichloroethene	R1277429	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
07/30/10 at 12:14:50

TSR Signing Reports: 350
R5 - Desired TAT

Sample: L465897-01 Account: MUNENGGNC Received: 06/24/10 10:00 Due Date: 07/01/10 00:00 RPT Date: 07/30/10 12:13
EDD = NCLF SWSL UNI 538951
Sample: L465897-02 Account: MUNENGGNC Received: 06/24/10 10:00 Due Date: 07/01/10 00:00 RPT Date: 07/30/10 12:13
EDD = NCLF SWSL
Sample: L465897-03 Account: MUNENGGNC Received: 06/24/10 10:00 Due Date: 07/01/10 00:00 RPT Date: 07/30/10 12:13
EDD = NCLF SWSL
Sample: L465897-04 Account: MUNENGGNC Received: 06/24/10 10:00 Due Date: 07/01/10 00:00 RPT Date: 07/30/10 12:13
EDD = NCLF SWSL
Sample: L465897-05 Account: MUNENGGNC Received: 06/24/10 10:00 Due Date: 07/01/10 00:00 RPT Date: 07/30/10 12:13
EDD = NCLF SWSL
Sample: L465897-06 Account: MUNENGGNC Received: 06/24/10 10:00 Due Date: 07/01/10 00:00 RPT Date: 07/30/10 12:13
EDD = NCLF SWSL
Sample: L465897-07 Account: MUNENGGNC Received: 06/24/10 10:00 Due Date: 07/01/10 00:00 RPT Date: 07/30/10 12:13
EDD = NCLF SWSL
Sample: L465897-08 Account: MUNENGGNC Received: 06/24/10 10:00 Due Date: 07/01/10 00:00 RPT Date: 07/30/10 12:13
EDD = NCLF SWSL
Sample: L465897-09 Account: MUNENGGNC Received: 06/24/10 10:00 Due Date: 07/01/10 00:00 RPT Date: 07/30/10 12:13
EDD = NCLF SWSL
Sample: L465897-10 Account: MUNENGGNC Received: 06/24/10 10:00 Due Date: 07/01/10 00:00 RPT Date: 07/30/10 12:13
EDD = NCLF SWSL
Sample: L465897-11 Account: MUNENGGNC Received: 06/24/10 10:00 Due Date: 07/01/10 00:00 RPT Date: 07/30/10 12:13
EDD = NCLF SWSL
Sample: L465897-12 Account: MUNENGGNC Received: 06/24/10 10:00 Due Date: 07/01/10 00:00 RPT Date: 07/30/10 12:13
EDD = NCLF SWSL
Sample: L465897-13 Account: MUNENGGNC Received: 06/24/10 10:00 Due Date: 07/01/10 00:00 RPT Date: 07/30/10 12:13
EDD = NCLF SWSL
Sample: L465897-14 Account: MUNENGGNC Received: 06/24/10 10:00 Due Date: 07/01/10 00:00 RPT Date: 07/30/10 12:13
EDD = NCLF SWSL

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Mark Brown
PO Box 97

Garner, NC 27529

Quality Assurance Report
Level II

L465897

July 30, 2010

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Mercury	< .0002	mg/l			WG485501	06/27/10 12:01
Mercury	< .0002	mg/l			WG485608	06/27/10 11:07
Barium	< .005	mg/l			WG485566	06/29/10 08:47
Chromium	< .01	mg/l			WG485566	06/29/10 08:47
Nickel	< .02	mg/l			WG485566	06/29/10 08:47
Silver	< .01	mg/l			WG485566	06/29/10 08:47
Vanadium	< .01	mg/l			WG485566	06/29/10 08:47
Barium	< .005	mg/l			WG485543	06/29/10 19:29
Chromium	< .01	mg/l			WG485543	06/29/10 19:29
Nickel	< .02	mg/l			WG485543	06/29/10 19:29
Silver	< .01	mg/l			WG485543	06/29/10 19:29
Vanadium	< .01	mg/l			WG485543	06/29/10 19:29
Antimony	< .001	mg/l			WG485656	06/29/10 13:33
Arsenic	< .001	mg/l			WG485656	06/29/10 13:33
Beryllium	< .001	mg/l			WG485656	06/29/10 13:33
Cadmium	< .0005	mg/l			WG485656	06/29/10 13:33
Copper	< .001	mg/l			WG485656	06/29/10 13:33
Lead	< .001	mg/l			WG485656	06/29/10 13:33
Selenium	< .001	mg/l			WG485656	06/29/10 13:33
Thallium	< .001	mg/l			WG485656	06/29/10 13:33
Zinc	< .01	mg/l			WG485656	06/29/10 13:33
Barium	< .005	mg/l			WG485659	06/29/10 17:08
Chromium	< .01	mg/l			WG485659	06/29/10 17:08
Nickel	< .02	mg/l			WG485659	06/29/10 17:08
Silver	< .01	mg/l			WG485659	06/29/10 17:08
Vanadium	< .01	mg/l			WG485659	06/29/10 17:08
Antimony	< .001	mg/l			WG485547	06/30/10 22:14
Arsenic	< .001	mg/l			WG485547	06/30/10 22:14
Beryllium	< .001	mg/l			WG485547	06/30/10 22:14
Cadmium	< .0005	mg/l			WG485547	06/30/10 22:14
Copper	< .001	mg/l			WG485547	06/30/10 22:14
Lead	< .001	mg/l			WG485547	06/30/10 22:14
Selenium	< .001	mg/l			WG485547	06/30/10 22:14
Thallium	< .001	mg/l			WG485547	06/30/10 22:14
Zinc	< .01	mg/l			WG485547	06/30/10 22:14
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG486940	07/05/10 14:18
1,1,1-Trichloroethane	< .001	mg/l			WG486940	07/05/10 14:18
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG486940	07/05/10 14:18
1,1,2-Trichloroethane	< .001	mg/l			WG486940	07/05/10 14:18
1,1-Dichloroethane	< .001	mg/l			WG486940	07/05/10 14:18
1,1-Dichloroethene	< .001	mg/l			WG486940	07/05/10 14:18
1,2,3-Trichloropropane	< .001	mg/l			WG486940	07/05/10 14:18
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG486940	07/05/10 14:18
1,2-Dibromoethane	< .001	mg/l			WG486940	07/05/10 14:18
1,2-Dichlorobenzene	< .001	mg/l			WG486940	07/05/10 14:18

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L465897

July 30, 2010

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,2-Dichloroethane	< .001	mg/l			WG486940	07/05/10 14:18
1,2-Dichloropropane	< .001	mg/l			WG486940	07/05/10 14:18
1,4-Dichlorobenzene	< .001	mg/l			WG486940	07/05/10 14:18
2-Butanone (MEK)	< .01	mg/l			WG486940	07/05/10 14:18
2-Hexanone	< .01	mg/l			WG486940	07/05/10 14:18
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG486940	07/05/10 14:18
Acetone	< .05	mg/l			WG486940	07/05/10 14:18
Acrylonitrile	< .01	mg/l			WG486940	07/05/10 14:18
Benzene	< .001	mg/l			WG486940	07/05/10 14:18
Bromochloromethane	< .001	mg/l			WG486940	07/05/10 14:18
Bromodichloromethane	< .001	mg/l			WG486940	07/05/10 14:18
Bromoform	< .001	mg/l			WG486940	07/05/10 14:18
Bromomethane	< .005	mg/l			WG486940	07/05/10 14:18
Carbon disulfide	< .001	mg/l			WG486940	07/05/10 14:18
Carbon tetrachloride	< .001	mg/l			WG486940	07/05/10 14:18
Chlorobenzene	< .001	mg/l			WG486940	07/05/10 14:18
Chlorodibromomethane	< .001	mg/l			WG486940	07/05/10 14:18
Chloroethane	< .001	mg/l			WG486940	07/05/10 14:18
Chloroform	< .005	mg/l			WG486940	07/05/10 14:18
Chloromethane	< .001	mg/l			WG486940	07/05/10 14:18
cis-1,2-Dichloroethene	< .001	mg/l			WG486940	07/05/10 14:18
cis-1,3-Dichloropropene	< .001	mg/l			WG486940	07/05/10 14:18
Dibromomethane	< .001	mg/l			WG486940	07/05/10 14:18
Ethylbenzene	< .001	mg/l			WG486940	07/05/10 14:18
Iodomethane	< .01	mg/l			WG486940	07/05/10 14:18
Methylene Chloride	< .005	mg/l			WG486940	07/05/10 14:18
Styrene	< .001	mg/l			WG486940	07/05/10 14:18
Tetrachloroethene	< .001	mg/l			WG486940	07/05/10 14:18
Toluene	< .005	mg/l			WG486940	07/05/10 14:18
trans-1,2-Dichloroethene	< .001	mg/l			WG486940	07/05/10 14:18
trans-1,3-Dichloropropene	< .001	mg/l			WG486940	07/05/10 14:18
trans-1,4-Dichloro-2-butene	< .0025	mg/l			WG486940	07/05/10 14:18
Trichloroethene	< .001	mg/l			WG486940	07/05/10 14:18
Trichlorofluoromethane	< .005	mg/l			WG486940	07/05/10 14:18
Vinyl acetate	< .01	mg/l			WG486940	07/05/10 14:18
Vinyl chloride	< .001	mg/l			WG486940	07/05/10 14:18
Xylenes, Total	< .003	mg/l			WG486940	07/05/10 14:18
4-Bromofluorobenzene		% Rec.	106.4	75-128	WG486940	07/05/10 14:18
Dibromofluoromethane		% Rec.	102.0	79-125	WG486940	07/05/10 14:18
Toluene-d8		% Rec.	101.1	87-114	WG486940	07/05/10 14:18
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG487207	07/06/10 20:04
1,1,1-Trichloroethane	< .001	mg/l			WG487207	07/06/10 20:04
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG487207	07/06/10 20:04
1,1,2-Trichloroethane	< .001	mg/l			WG487207	07/06/10 20:04
1,1-Dichloroethane	< .001	mg/l			WG487207	07/06/10 20:04
1,1-Dichloroethene	< .001	mg/l			WG487207	07/06/10 20:04
1,2,3-Trichloropropane	< .001	mg/l			WG487207	07/06/10 20:04
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG487207	07/06/10 20:04
1,2-Dibromoethane	< .001	mg/l			WG487207	07/06/10 20:04
1,2-Dichlorobenzene	< .001	mg/l			WG487207	07/06/10 20:04
1,2-Dichloroethane	< .001	mg/l			WG487207	07/06/10 20:04
1,2-Dichloropropane	< .001	mg/l			WG487207	07/06/10 20:04
1,4-Dichlorobenzene	< .001	mg/l			WG487207	07/06/10 20:04
2-Butanone (MEK)	< .01	mg/l			WG487207	07/06/10 20:04
2-Hexanone	< .01	mg/l			WG487207	07/06/10 20:04
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG487207	07/06/10 20:04
Acetone	< .05	mg/l			WG487207	07/06/10 20:04

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L465897

July 30, 2010

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Acrylonitrile	< .01	mg/l			WG487207	07/06/10 20:04
Benzene	< .001	mg/l			WG487207	07/06/10 20:04
Bromochloromethane	< .001	mg/l			WG487207	07/06/10 20:04
Bromodichloromethane	< .001	mg/l			WG487207	07/06/10 20:04
Bromoform	< .001	mg/l			WG487207	07/06/10 20:04
Bromomethane	< .005	mg/l			WG487207	07/06/10 20:04
Carbon disulfide	< .001	mg/l			WG487207	07/06/10 20:04
Carbon tetrachloride	< .001	mg/l			WG487207	07/06/10 20:04
Chlorobenzene	< .001	mg/l			WG487207	07/06/10 20:04
Chlorodibromomethane	< .001	mg/l			WG487207	07/06/10 20:04
Chloroethane	< .001	mg/l			WG487207	07/06/10 20:04
Chloroform	< .005	mg/l			WG487207	07/06/10 20:04
Chloromethane	< .001	mg/l			WG487207	07/06/10 20:04
cis-1,2-Dichloroethene	< .001	mg/l			WG487207	07/06/10 20:04
cis-1,3-Dichloropropene	< .001	mg/l			WG487207	07/06/10 20:04
Dibromomethane	< .001	mg/l			WG487207	07/06/10 20:04
Ethylbenzene	< .001	mg/l			WG487207	07/06/10 20:04
Iodomethane	< .01	mg/l			WG487207	07/06/10 20:04
Methylene Chloride	< .005	mg/l			WG487207	07/06/10 20:04
Styrene	< .001	mg/l			WG487207	07/06/10 20:04
Tetrachloroethene	< .001	mg/l			WG487207	07/06/10 20:04
Toluene	< .005	mg/l			WG487207	07/06/10 20:04
trans-1,2-Dichloroethene	< .001	mg/l			WG487207	07/06/10 20:04
trans-1,3-Dichloropropene	< .001	mg/l			WG487207	07/06/10 20:04
trans-1,4-Dichloro-2-butene	< .0025	mg/l			WG487207	07/06/10 20:04
Trichloroethene	< .001	mg/l			WG487207	07/06/10 20:04
Trichlorofluoromethane	< .005	mg/l			WG487207	07/06/10 20:04
Vinyl acetate	< .01	mg/l			WG487207	07/06/10 20:04
Vinyl chloride	< .001	mg/l			WG487207	07/06/10 20:04
Xylenes, Total	< .003	mg/l			WG487207	07/06/10 20:04
4-Bromofluorobenzene		% Rec.	109.0	75-128	WG487207	07/06/10 20:04
Dibromofluoromethane		% Rec.	109.6	79-125	WG487207	07/06/10 20:04
Toluene-d8		% Rec.	109.1	87-114	WG487207	07/06/10 20:04

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Mercury	mg/l	0	0	0	20	L465862-02	WG485501
Mercury	mg/l	0	0	0	20	L465897-13	WG485608
Barium	mg/l	0.0250	0.0240	4.88	20	L465897-07	WG485566
Chromium	mg/l	0	0	0	20	L465897-07	WG485566
Nickel	mg/l	0	0	0	20	L465897-07	WG485566
Silver	mg/l	0	0	0	20	L465897-07	WG485566
Vanadium	mg/l	0	0	0	0	L465897-07	WG485566
Barium	mg/l	0.0220	0.0219	0.456	20	L465854-01	WG485543
Chromium	mg/l	0	0.00150	NA	20	L465854-01	WG485543
Nickel	mg/l	0	0.00100	NA	20	L465854-01	WG485543
Silver	mg/l	0	0.000500	NA	20	L465854-01	WG485543
Vanadium	mg/l	0	0.000100	NA	0	L465854-01	WG485543
Antimony	mg/l	0	0.0000300	NA	20	L465936-01	WG485656
Arsenic	mg/l	0.00110	0.00107	3.67	20	L465936-01	WG485656

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Quality Assurance Report
Level II

L465897

July 30, 2010

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
			Duplicate				
Beryllium	mg/l	0	0	0	20	L465936-01	WG485656
Cadmium	mg/l	0	0	0	20	L465936-01	WG485656
Copper	mg/l	0.00220	0.00200	8.15	20	L465936-01	WG485656
Lead	mg/l	0	0	0	20	L465936-01	WG485656
Selenium	mg/l	0.00380	0.00321	16.8	20	L465936-01	WG485656
Thallium	mg/l	0	0	0	20	L465936-01	WG485656
Zinc	mg/l	0.0140	0.0159	14.9	20	L465936-01	WG485656
Barium	mg/l	0.00630	0.00610	3.23	20	L465942-01	WG485659
Chromium	mg/l	0	0.000400	NA	20	L465942-01	WG485659
Nickel	mg/l	0	0.000700	NA	20	L465942-01	WG485659
Silver	mg/l	0	0	0	20	L465942-01	WG485659
Vanadium	mg/l	0	0	0	0	L465942-01	WG485659
Antimony	mg/l	0.00120	0.00110	12.8	20	L465897-01	WG485547
Arsenic	mg/l	0.000310	0.000290	6.67	20	L465897-01	WG485547
Beryllium	mg/l	0	0	0	20	L465897-01	WG485547
Cadmium	mg/l	0	0	0	20	L465897-01	WG485547
Copper	mg/l	0.000730	0.000800	9.15	20	L465897-01	WG485547
Lead	mg/l	0	0	0	20	L465897-01	WG485547
Selenium	mg/l	0	0	0	20	L465897-01	WG485547
Thallium	mg/l	0	0	0	20	L465897-01	WG485547
Zinc	mg/l	0.00980	0.0130	28.1*	20	L465897-01	WG485547

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
			Laboratory Control Sample			
Mercury	mg/l	.003	0.00282	94.0	85-115	WG485501
Mercury	mg/l	.003	0.00284	94.7	85-115	WG485608
Barium	mg/l	1	0.994	99.4	85-115	WG485566
Chromium	mg/l	1	1.01	101.	85-115	WG485566
Nickel	mg/l	1	0.960	96.0	85-115	WG485566
Silver	mg/l	1	0.994	99.4	85-115	WG485566
Vanadium	mg/l	1	0.972	97.2	85-115	WG485566
Barium	mg/l	1	1.00	100.	85-115	WG485543
Chromium	mg/l	1	1.01	101.	85-115	WG485543
Nickel	mg/l	1	0.954	95.4	85-115	WG485543
Silver	mg/l	1	0.952	95.2	85-115	WG485543
Vanadium	mg/l	1	0.979	97.9	85-115	WG485543
Antimony	mg/l	.05	0.0544	109.	85-115	WG485656
Arsenic	mg/l	.05	0.0515	103.	85-115	WG485656
Beryllium	mg/l	.05	0.0489	97.8	85-115	WG485656
Cadmium	mg/l	.05	0.0522	104.	85-115	WG485656
Copper	mg/l	.05	0.0537	107.	85-115	WG485656
Lead	mg/l	.05	0.0540	108.	85-115	WG485656
Selenium	mg/l	.05	0.0491	98.2	85-115	WG485656
Thallium	mg/l	.05	0.0548	110.	85-115	WG485656
Zinc	mg/l	.05	0.0535	107.	85-115	WG485656

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Quality Assurance Report
Level II

L465897

July 30, 2010

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Barium	mg/l	1	1.01	101.	85-115	WG485659
Chromium	mg/l	1	1.04	104.	85-115	WG485659
Nickel	mg/l	1	0.981	98.1	85-115	WG485659
Silver	mg/l	1	1.01	101.	85-115	WG485659
Vanadium	mg/l	1	0.994	99.4	85-115	WG485659
Antimony	mg/l	.05	0.0480	96.0	85-115	WG485547
Arsenic	mg/l	.05	0.0463	92.6	85-115	WG485547
Beryllium	mg/l	.05	0.0449	89.8	85-115	WG485547
Cadmium	mg/l	.05	0.0464	92.8	85-115	WG485547
Copper	mg/l	.05	0.0482	96.4	85-115	WG485547
Lead	mg/l	.05	0.0493	98.6	85-115	WG485547
Selenium	mg/l	.05	0.0435	87.0	85-115	WG485547
Thallium	mg/l	.05	0.0494	98.8	85-115	WG485547
Zinc	mg/l	.05	0.0472	94.4	85-115	WG485547
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0271	108.	75-134	WG486940
1,1,1-Trichloroethane	mg/l	.025	0.0235	94.0	67-137	WG486940
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0260	104.	72-128	WG486940
1,1,2-Trichloroethane	mg/l	.025	0.0262	105.	79-123	WG486940
1,1-Dichloroethane	mg/l	.025	0.0219	87.6	67-133	WG486940
1,1-Dichloroethene	mg/l	.025	0.0229	91.4	60-130	WG486940
1,2,3-Trichloropropane	mg/l	.025	0.0275	110.	68-130	WG486940
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0213	85.1	55-134	WG486940
1,2-Dibromoethane	mg/l	.025	0.0261	104.	75-126	WG486940
1,2-Dichlorobenzene	mg/l	.025	0.0250	100.	75-122	WG486940
1,2-Dichloroethane	mg/l	.025	0.0235	94.0	63-137	WG486940
1,2-Dichloropropane	mg/l	.025	0.0219	87.5	74-122	WG486940
1,4-Dichlorobenzene	mg/l	.025	0.0253	101.	70-121	WG486940
2-Butanone (MEK)	mg/l	.125	0.116	92.5	53-132	WG486940
2-Hexanone	mg/l	.125	0.112	89.6	56-147	WG486940
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.110	87.7	60-142	WG486940
Acetone	mg/l	.125	0.106	84.6	48-134	WG486940
Acrylonitrile	mg/l	.125	0.105	84.3	60-140	WG486940
Benzene	mg/l	.025	0.0232	92.8	67-126	WG486940
Bromochloromethane	mg/l	.025	0.0264	106.	75-128	WG486940
Bromodichloromethane	mg/l	.025	0.0241	96.2	68-133	WG486940
Bromoform	mg/l	.025	0.0251	100.	60-139	WG486940
Bromomethane	mg/l	.025	0.0298	119.	45-175	WG486940
Carbon disulfide	mg/l	.025	0.0205	82.1	41-148	WG486940
Carbon tetrachloride	mg/l	.025	0.0220	88.1	64-141	WG486940
Chlorobenzene	mg/l	.025	0.0271	109.	77-125	WG486940
Chlorodibromomethane	mg/l	.025	0.0255	102.	73-138	WG486940
Chloroethane	mg/l	.025	0.0265	106.	49-155	WG486940
Chloroform	mg/l	.025	0.0243	97.1	66-126	WG486940
Chloromethane	mg/l	.025	0.0235	93.9	45-152	WG486940
cis-1,2-Dichloroethene	mg/l	.025	0.0238	95.2	72-128	WG486940
cis-1,3-Dichloropropene	mg/l	.025	0.0228	91.2	73-131	WG486940
Dibromomethane	mg/l	.025	0.0250	100.	73-125	WG486940
Ethylbenzene	mg/l	.025	0.0270	108.	76-129	WG486940
Iodomethane	mg/l	.125	0.0860	68.8	61-148	WG486940
Methylene Chloride	mg/l	.025	0.0220	87.9	64-125	WG486940
Styrene	mg/l	.025	0.0269	107.	78-130	WG486940
Tetrachloroethene	mg/l	.025	0.0293	117.	67-135	WG486940
Toluene	mg/l	.025	0.0246	98.6	72-122	WG486940
trans-1,2-Dichloroethene	mg/l	.025	0.0236	94.4	67-129	WG486940

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Quality Assurance Report
Level II

L465897

July 30, 2010

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
trans-1,3-Dichloropropene	mg/l	.025	0.0233	93.2	66-137	WG486940
trans-1,4-Dichloro-2-butene	mg/l	.025	0.0236	94.5	48-139	WG486940
Trichloroethene	mg/l	.025	0.0258	103.	74-126	WG486940
Trichlorofluoromethane	mg/l	.025	0.0300	120.	54-156	WG486940
Vinyl acetate	mg/l	.125	0.113	90.6	34-178	WG486940
Vinyl chloride	mg/l	.025	0.0245	97.9	55-153	WG486940
Xylenes, Total	mg/l	.075	0.0806	107.	75-128	WG486940
4-Bromofluorobenzene				104.1	75-128	WG486940
Dibromofluoromethane				100.7	79-125	WG486940
Toluene-d8				100.6	87-114	WG486940
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0250	99.8	75-134	WG487207
1,1,1-Trichloroethane	mg/l	.025	0.0278	111.	67-137	WG487207
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0261	104.	72-128	WG487207
1,1,2-Trichloroethane	mg/l	.025	0.0259	104.	79-123	WG487207
1,1-Dichloroethane	mg/l	.025	0.0280	112.	67-133	WG487207
1,1-Dichloroethene	mg/l	.025	0.0219	87.5	60-130	WG487207
1,2,3-Trichloropropane	mg/l	.025	0.0268	107.	68-130	WG487207
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0245	97.8	55-134	WG487207
1,2-Dibromoethane	mg/l	.025	0.0257	103.	75-126	WG487207
1,2-Dichlorobenzene	mg/l	.025	0.0260	104.	75-122	WG487207
1,2-Dichloroethane	mg/l	.025	0.0288	115.	63-137	WG487207
1,2-Dichloropropane	mg/l	.025	0.0277	111.	74-122	WG487207
1,4-Dichlorobenzene	mg/l	.025	0.0249	99.5	70-121	WG487207
2-Butanone (MEK)	mg/l	.125	0.138	110.	53-132	WG487207
2-Hexanone	mg/l	.125	0.123	98.4	56-147	WG487207
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.138	111.	60-142	WG487207
Acetone	mg/l	.125	0.118	94.5	48-134	WG487207
Acrylonitrile	mg/l	.125	0.143	114.	60-140	WG487207
Benzene	mg/l	.025	0.0278	111.	67-126	WG487207
Bromochloromethane	mg/l	.025	0.0276	111.	75-128	WG487207
Bromodichloromethane	mg/l	.025	0.0262	105.	68-133	WG487207
Bromoform	mg/l	.025	0.0200	80.0	60-139	WG487207
Bromomethane	mg/l	.025	0.0241	96.5	45-175	WG487207
Carbon disulfide	mg/l	.025	0.0208	83.2	41-148	WG487207
Carbon tetrachloride	mg/l	.025	0.0272	109.	64-141	WG487207
Chlorobenzene	mg/l	.025	0.0258	103.	77-125	WG487207
Chlorodibromomethane	mg/l	.025	0.0204	81.6	73-138	WG487207
Chloroethane	mg/l	.025	0.0284	114.	49-155	WG487207
Chloroform	mg/l	.025	0.0280	112.	66-126	WG487207
Chloromethane	mg/l	.025	0.0278	111.	45-152	WG487207
cis-1,2-Dichloroethene	mg/l	.025	0.0282	113.	72-128	WG487207
cis-1,3-Dichloropropene	mg/l	.025	0.0277	111.	73-131	WG487207
Dibromomethane	mg/l	.025	0.0276	110.	73-125	WG487207
Ethylbenzene	mg/l	.025	0.0266	106.	76-129	WG487207
Iodomethane	mg/l	.125	0.130	104.	61-148	WG487207
Methylene Chloride	mg/l	.025	0.0273	109.	64-125	WG487207
Styrene	mg/l	.025	0.0268	107.	78-130	WG487207
Tetrachloroethene	mg/l	.025	0.0246	98.3	67-135	WG487207
Toluene	mg/l	.025	0.0258	103.	72-122	WG487207
trans-1,2-Dichloroethene	mg/l	.025	0.0279	112.	67-129	WG487207
trans-1,3-Dichloropropene	mg/l	.025	0.0262	105.	66-137	WG487207
trans-1,4-Dichloro-2-butene	mg/l	.025	0.0245	98.0	48-139	WG487207
Trichloroethene	mg/l	.025	0.0255	102.	74-126	WG487207
Trichlorofluoromethane	mg/l	.025	0.0260	104.	54-156	WG487207
Vinyl acetate	mg/l	.125	0.139	111.	34-178	WG487207
Vinyl chloride	mg/l	.025	0.0284	114.	55-153	WG487207
Xylenes, Total	mg/l	.075	0.0786	105.	75-128	WG487207

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L465897

July 30, 2010

Analyte	Laboratory Control Sample Duplicate							
	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
4-Bromofluorobenzene					105.6	75-128		
Dibromofluoromethane					112.3	79-125		
Toluene-d8					109.2	87-114		

Analyte	Laboratory Control Sample Duplicate							
	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0280	0.0271	112.	75-134	3.45	20	WG486940
1,1,1-Trichloroethane	mg/l	0.0242	0.0235	97.0	67-137	2.91	20	WG486940
1,1,2,2-Tetrachloroethane	mg/l	0.0273	0.0260	109.	72-128	4.88	20	WG486940
1,1,2-Trichloroethane	mg/l	0.0277	0.0262	111.	79-123	5.31	20	WG486940
1,1-Dichloroethane	mg/l	0.0228	0.0219	91.0	67-133	4.01	20	WG486940
1,1-Dichloroethene	mg/l	0.0237	0.0229	95.0	60-130	3.55	20	WG486940
1,2,3-Trichloropropane	mg/l	0.0292	0.0275	117.	68-130	6.11	20	WG486940
1,2-Dibromo-3-Chloropropane	mg/l	0.0222	0.0213	89.0	55-134	4.21	20	WG486940
1,2-Dibromoethane	mg/l	0.0276	0.0261	110.	75-126	5.69	20	WG486940
1,2-Dichlorobenzene	mg/l	0.0256	0.0250	102.	75-122	2.59	20	WG486940
1,2-Dichloroethane	mg/l	0.0249	0.0235	100.	63-137	5.81	20	WG486940
1,2-Dichloropropane	mg/l	0.0228	0.0219	91.0	74-122	4.17	20	WG486940
1,4-Dichlorobenzene	mg/l	0.0259	0.0253	103.	70-121	2.05	20	WG486940
2-Butanone (MEK)	mg/l	0.123	0.116	98.0	53-132	6.03	20	WG486940
2-Hexanone	mg/l	0.120	0.112	96.0	56-147	6.99	20	WG486940
4-Methyl-2-pentanone (MIBK)	mg/l	0.118	0.110	94.0	60-142	7.39	20	WG486940
Acetone	mg/l	0.111	0.106	89.0	48-134	5.23	20	WG486940
Acrylonitrile	mg/l	0.113	0.105	90.0	60-140	6.58	20	WG486940
Benzene	mg/l	0.0240	0.0232	96.0	67-126	3.47	20	WG486940
Bromochloromethane	mg/l	0.0284	0.0264	114.	75-128	7.37	20	WG486940
Bromodichloromethane	mg/l	0.0255	0.0241	102.	68-133	5.68	20	WG486940
Bromoform	mg/l	0.0270	0.0251	108.	60-139	7.44	20	WG486940
Bromomethane	mg/l	0.0303	0.0298	121.	45-175	1.53	20	WG486940
Carbon disulfide	mg/l	0.0209	0.0205	84.0	41-148	1.76	20	WG486940
Carbon tetrachloride	mg/l	0.0230	0.0220	92.0	64-141	4.19	20	WG486940
Chlorobenzene	mg/l	0.0282	0.0271	113.	77-125	3.90	20	WG486940
Chlorodibromomethane	mg/l	0.0264	0.0255	106.	73-138	3.65	20	WG486940
Chloroethane	mg/l	0.0262	0.0265	105.	49-155	1.32	20	WG486940
Chloroform	mg/l	0.0251	0.0243	100.	66-126	3.16	20	WG486940
Chloromethane	mg/l	0.0239	0.0235	96.0	45-152	2.00	20	WG486940
cis-1,2-Dichloroethene	mg/l	0.0250	0.0238	100.	72-128	4.93	20	WG486940
cis-1,3-Dichloropropene	mg/l	0.0239	0.0228	96.0	73-131	4.83	20	WG486940
Dibromomethane	mg/l	0.0265	0.0250	106.	73-125	5.73	20	WG486940
Ethylbenzene	mg/l	0.0276	0.0270	110.	76-129	2.19	20	WG486940
Iodomethane	mg/l	0.0878	0.0860	70.0	61-148	2.09	20	WG486940
Methylene Chloride	mg/l	0.0230	0.0220	92.0	64-125	4.63	20	WG486940
Styrene	mg/l	0.0278	0.0269	111.	78-130	3.58	20	WG486940
Tetrachloroethene	mg/l	0.0298	0.0293	119.	67-135	2.00	20	WG486940
Toluene	mg/l	0.0259	0.0246	103.	72-122	4.84	20	WG486940
trans-1,2-Dichloroethene	mg/l	0.0242	0.0236	97.0	67-129	2.59	20	WG486940
trans-1,3-Dichloropropene	mg/l	0.0253	0.0233	101.	66-137	8.14	20	WG486940
trans-1,4-Dichloro-2-butene	mg/l	0.0249	0.0236	100.	48-139	5.29	20	WG486940
Trichloroethene	mg/l	0.0272	0.0258	109.	74-126	5.17	20	WG486940
Trichlorofluoromethane	mg/l	0.0300	0.0300	120.	54-156	0.130	20	WG486940
Vinyl acetate	mg/l	0.120	0.113	96.0	34-178	6.21	26	WG486940
Vinyl chloride	mg/l	0.0248	0.0245	99.0	55-153	1.48	20	WG486940
Xylenes, Total	mg/l	0.0837	0.0806	112.	75-128	3.82	20	WG486940
4-Bromofluorobenzene				104.0	75-128			WG486940
Dibromofluoromethane				101.2	79-125			WG486940
Toluene-d8				101.5	87-114			WG486940

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Est. 1970

Municipal Engineering Services Company
Mark Brown
PO Box 97

Garner, NC 27529

Quality Assurance Report
Level II

L465897

July 30, 2010

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0237	0.0250	95.0	75-134	5.29	20	WG487207
1,1,1-Trichloroethane	mg/l	0.0264	0.0278	106.	67-137	5.41	20	WG487207
1,1,2,2-Tetrachloroethane	mg/l	0.0256	0.0261	102.	72-128	2.09	20	WG487207
1,1,2-Trichloroethane	mg/l	0.0240	0.0259	96.0	79-123	7.49	20	WG487207
1,1-Dichloroethane	mg/l	0.0262	0.0280	105.	67-133	6.63	20	WG487207
1,1-Dichloroethene	mg/l	0.0249	0.0219	100.	60-130	13.0	20	WG487207
1,2,3-Trichloropropane	mg/l	0.0254	0.0268	102.	68-130	5.30	20	WG487207
1,2-Dibromo-3-Chloropropane	mg/l	0.0251	0.0245	100.	55-134	2.71	20	WG487207
1,2-Dibromoethane	mg/l	0.0240	0.0257	96.0	75-126	6.63	20	WG487207
1,2-Dichlorobenzene	mg/l	0.0252	0.0260	101.	75-122	3.33	20	WG487207
1,2-Dichloroethane	mg/l	0.0275	0.0288	110.	63-137	4.65	20	WG487207
1,2-Dichloropropane	mg/l	0.0263	0.0277	105.	74-122	5.22	20	WG487207
1,4-Dichlorobenzene	mg/l	0.0237	0.0249	95.0	70-121	4.82	20	WG487207
2-Butanone (MEK)	mg/l	0.132	0.138	106.	53-132	4.18	20	WG487207
2-Hexanone	mg/l	0.118	0.123	94.0	56-147	4.13	20	WG487207
4-Methyl-2-pentanone (MIBK)	mg/l	0.135	0.138	108.	60-142	2.23	20	WG487207
Acetone	mg/l	0.115	0.118	92.0	48-134	3.05	20	WG487207
Acrylonitrile	mg/l	0.138	0.143	110.	60-140	3.84	20	WG487207
Benzene	mg/l	0.0260	0.0278	104.	67-126	6.81	20	WG487207
Bromochloromethane	mg/l	0.0261	0.0276	104.	75-128	5.69	20	WG487207
Bromodichloromethane	mg/l	0.0249	0.0262	100.	68-133	4.95	20	WG487207
Bromoform	mg/l	0.0197	0.0200	79.0	60-139	1.40	20	WG487207
Bromomethane	mg/l	0.0224	0.0241	90.0	45-175	7.41	20	WG487207
Carbon disulfide	mg/l	0.0230	0.0208	92.0	41-148	9.93	20	WG487207
Carbon tetrachloride	mg/l	0.0257	0.0272	103.	64-141	5.51	20	WG487207
Chlorobenzene	mg/l	0.0239	0.0258	96.0	77-125	7.72	20	WG487207
Chlorodibromomethane	mg/l	0.0195	0.0204	78.0	73-138	4.70	20	WG487207
Chloroethane	mg/l	0.0259	0.0284	104.	49-155	9.36	20	WG487207
Chloroform	mg/l	0.0267	0.0280	107.	66-126	5.02	20	WG487207
Chloromethane	mg/l	0.0263	0.0278	105.	45-152	5.73	20	WG487207
cis-1,2-Dichloroethene	mg/l	0.0264	0.0282	106.	72-128	6.49	20	WG487207
cis-1,3-Dichloropropene	mg/l	0.0262	0.0277	105.	73-131	5.80	20	WG487207
Dibromomethane	mg/l	0.0260	0.0276	104.	73-125	6.08	20	WG487207
Ethylbenzene	mg/l	0.0243	0.0266	97.0	76-129	8.87	20	WG487207
Iodomethane	mg/l	0.122	0.130	98.0	61-148	6.54	20	WG487207
Methylene Chloride	mg/l	0.0255	0.0273	102.	64-125	6.65	20	WG487207
Styrene	mg/l	0.0252	0.0268	101.	78-130	5.80	20	WG487207
Tetrachloroethene	mg/l	0.0229	0.0246	91.0	67-135	7.13	20	WG487207
Toluene	mg/l	0.0240	0.0258	96.0	72-122	7.11	20	WG487207
trans-1,2-Dichloroethene	mg/l	0.0259	0.0279	104.	67-129	7.41	20	WG487207
trans-1,3-Dichloropropene	mg/l	0.0252	0.0262	101.	66-137	3.90	20	WG487207
trans-1,4-Dichloro-2-butene	mg/l	0.0229	0.0245	92.0	48-139	6.82	20	WG487207
Trichloroethene	mg/l	0.0238	0.0255	95.0	74-126	7.06	20	WG487207
Trichlorofluoromethane	mg/l	0.0243	0.0260	97.0	54-156	6.66	20	WG487207
Vinyl acetate	mg/l	0.132	0.139	106.	34-178	4.80	26	WG487207
Vinyl chloride	mg/l	0.0258	0.0284	103.	55-153	9.78	20	WG487207
Xylenes, Total	mg/l	0.0728	0.0786	97.0	75-128	7.63	20	WG487207
4-Bromofluorobenzene				106.7	75-128			WG487207
Dibromofluoromethane				114.1	79-125			WG487207
Toluene-d8				108.6	87-114			WG487207

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Mercury	mg/l	0.00250	0	.003	83.3	70-130	L465862-02	WG485501
Mercury	mg/l	0.00268	0	.0015	89.3	70-130	L465897-13	WG485608

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Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Barium	mg/l	0.984	0.0240	1	96.0	75-125	L465897-07	WG485566
Chromium	mg/l	0.979	0	1	97.9	75-125	L465897-07	WG485566
Nickel	mg/l	0.929	0	1	92.9	75-125	L465897-07	WG485566
Silver	mg/l	0.968	0	1	96.8	75-125	L465897-07	WG485566
Vanadium	mg/l	0.949	0	1	94.9	75-125	L465897-07	WG485566
Barium	mg/l	1.03	0.0219	1	101.	75-125	L465854-01	WG485543
Chromium	mg/l	1.05	0.00150	1	105.	75-125	L465854-01	WG485543
Nickel	mg/l	1.00	0.00100	1	99.9	75-125	L465854-01	WG485543
Silver	mg/l	1.00	0.000500	1	100.	75-125	L465854-01	WG485543
Vanadium	mg/l	1.02	0.000100	1	102.	75-125	L465854-01	WG485543
Antimony	mg/l	0.0603	0.0000300	.05	120.	75-125	L465936-01	WG485656
Arsenic	mg/l	0.0560	0.00107	.05	110.	75-125	L465936-01	WG485656
Beryllium	mg/l	0.0514	0	.05	103.	75-125	L465936-01	WG485656
Cadmium	mg/l	0.0564	0	.05	113.	75-125	L465936-01	WG485656
Copper	mg/l	0.0539	0.00200	.05	104.	75-125	L465936-01	WG485656
Lead	mg/l	0.0540	0	.05	108.	75-125	L465936-01	WG485656
Selenium	mg/l	0.0557	0.00321	.05	105.	75-125	L465936-01	WG485656
Thallium	mg/l	0.0542	0	.05	108.	75-125	L465936-01	WG485656
Zinc	mg/l	0.0672	0.0159	.05	103.	75-125	L465936-01	WG485656
Barium	mg/l	1.07	0.00610	1	106.	75-125	L465942-01	WG485659
Chromium	mg/l	1.08	0.000400	1	108.	75-125	L465942-01	WG485659
Nickel	mg/l	1.03	0.000700	1	103.	75-125	L465942-01	WG485659
Silver	mg/l	0.987	0	1	98.7	75-125	L465942-01	WG485659
Vanadium	mg/l	1.03	0	1	103.	75-125	L465942-01	WG485659
Antimony	mg/l	0.0523	0.00110	.05	102.	75-125	L465897-01	WG485547
Arsenic	mg/l	0.0485	0.000290	.05	96.4	75-125	L465897-01	WG485547
Beryllium	mg/l	0.0472	0	.05	94.4	75-125	L465897-01	WG485547
Cadmium	mg/l	0.0490	0	.05	98.0	75-125	L465897-01	WG485547
Copper	mg/l	0.0478	0.000800	.05	94.0	75-125	L465897-01	WG485547
Lead	mg/l	0.0481	0	.05	96.2	75-125	L465897-01	WG485547
Selenium	mg/l	0.0446	0	.05	89.2	75-125	L465897-01	WG485547
Thallium	mg/l	0.0490	0	.05	98.0	75-125	L465897-01	WG485547
Zinc	mg/l	0.0562	0.0130	.05	86.4	75-125	L465897-01	WG485547
1,1,1,2-Tetrachloroethane	mg/l	0.0286	0	.025	114.	45-152	L465897-01	WG486940
1,1,1-Trichloroethane	mg/l	0.0243	0	.025	97.1	31-161	L465897-01	WG486940
1,1,2,2-Tetrachloroethane	mg/l	0.0282	0	.025	113.	49-149	L465897-01	WG486940
1,1,2-Trichloroethane	mg/l	0.0286	0	.025	114.	46-145	L465897-01	WG486940
1,1-Dichloroethane	mg/l	0.0226	0	.025	90.3	30-159	L465897-01	WG486940
1,1-Dichloroethene	mg/l	0.0237	0	.025	94.9	10-162	L465897-01	WG486940
1,2,3-Trichloropropane	mg/l	0.0308	0	.025	123.	48-148	L465897-01	WG486940
1,2-Dibromo-3-Chloropropane	mg/l	0.0218	0	.025	87.3	37-148	L465897-01	WG486940
1,2-Dibromoethane	mg/l	0.0282	0	.025	113.	41-149	L465897-01	WG486940
1,2-Dichlorobenzene	mg/l	0.0257	0	.025	103.	40-139	L465897-01	WG486940
1,2-Dichloroethane	mg/l	0.0240	0	.025	95.8	29-167	L465897-01	WG486940
1,2-Dichloropropane	mg/l	0.0226	0	.025	90.5	39-148	L465897-01	WG486940
1,4-Dichlorobenzene	mg/l	0.0260	0	.025	104.	32-136	L465897-01	WG486940
2-Butanone (MEK)	mg/l	0.127	0	.125	102.	32-151	L465897-01	WG486940
2-Hexanone	mg/l	0.126	0	.125	101.	41-155	L465897-01	WG486940

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Quality Assurance Report
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Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
4-Methyl-2-pentanone (MIBK)	mg/l	0.117	0	.125	93.8	40-160	L465897-01	WG486940
Acetone	mg/l	0.116	0	.125	93.1	25-157	L465897-01	WG486940
Acrylonitrile	mg/l	0.115	0	.125	91.6	37-162	L465897-01	WG486940
Benzene	mg/l	0.0235	0	.025	94.0	16-158	L465897-01	WG486940
Bromochloromethane	mg/l	0.0279	0	.025	112.	36-154	L465897-01	WG486940
Bromodichloromethane	mg/l	0.0249	0	.025	99.7	45-147	L465897-01	WG486940
Bromoform	mg/l	0.0275	0	.025	110.	38-152	L465897-01	WG486940
Bromomethane	mg/l	0.0310	0	.025	124.	0-191	L465897-01	WG486940
Carbon disulfide	mg/l	0.0210	0	.025	84.2	10-166	L465897-01	WG486940
Carbon tetrachloride	mg/l	0.0228	0	.025	91.1	22-168	L465897-01	WG486940
Chlorobenzene	mg/l	0.0287	0	.025	115.	33-148	L465897-01	WG486940
Chlorodibromomethane	mg/l	0.0273	0	.025	109.	48-151	L465897-01	WG486940
Chloroethane	mg/l	0.0265	0	.025	106.	4-176	L465897-01	WG486940
Chloroform	mg/l	0.0247	0	.025	98.8	37-147	L465897-01	WG486940
Chloromethane	mg/l	0.0234	0	.025	93.7	10-174	L465897-01	WG486940
cis-1,2-Dichloroethene	mg/l	0.0240	0	.025	96.0	29-156	L465897-01	WG486940
cis-1,3-Dichloropropene	mg/l	0.0234	0	.025	93.7	35-148	L465897-01	WG486940
Dibromomethane	mg/l	0.0260	0	.025	104.	36-152	L465897-01	WG486940
Ethylbenzene	mg/l	0.0283	0	.025	113.	29-150	L465897-01	WG486940
Iodomethane	mg/l	0.0861	0	.125	68.9	9-169	L465897-01	WG486940
Methylene Chloride	mg/l	0.0224	0	.025	89.8	23-151	L465897-01	WG486940
Styrene	mg/l	0.0287	0	.025	115.	38-149	L465897-01	WG486940
Tetrachloroethene	mg/l	0.0315	0	.025	126.	13-157	L465897-01	WG486940
Toluene	mg/l	0.0254	0	.025	102.	22-152	L465897-01	WG486940
trans-1,2-Dichloroethene	mg/l	0.0239	0	.025	95.6	11-160	L465897-01	WG486940
trans-1,3-Dichloropropene	mg/l	0.0250	0	.025	100.	33-153	L465897-01	WG486940
trans-1,4-Dichloro-2-butene	mg/l	0.0258	0	.025	103.	19-151	L465897-01	WG486940
Trichloroethene	mg/l	0.0272	0	.025	109.	18-163	L465897-01	WG486940
Trichlorofluoromethane	mg/l	0.0304	0	.025	121.	10-177	L465897-01	WG486940
Vinyl acetate	mg/l	0.118	0	.125	94.4	0-196	L465897-01	WG486940
Vinyl chloride	mg/l	0.0248	0	.025	99.4	0-179	L465897-01	WG486940
Xylenes, Total	mg/l	0.0858	0	.075	114.	27-151	L465897-01	WG486940
4-Bromofluorobenzene					107.2	75-128		WG486940
Dibromofluoromethane					100.8	79-125		WG486940
Toluene-d8					101.9	87-114		WG486940
1,1,1,2-Tetrachloroethane	mg/l	0.0254	0	.025	102.	45-152	L465888-01	WG487207
1,1,1-Trichloroethane	mg/l	0.0281	0	.025	112.	31-161	L465888-01	WG487207
1,1,2,2-Tetrachloroethane	mg/l	0.0266	0	.025	106.	49-149	L465888-01	WG487207
1,1,2-Trichloroethane	mg/l	0.0257	0	.025	103.	46-145	L465888-01	WG487207
1,1-Dichloroethane	mg/l	0.0284	0	.025	114.	30-159	L465888-01	WG487207
1,1-Dichloroethene	mg/l	0.0302	0	.025	121.	10-162	L465888-01	WG487207
1,2,3-Trichloropropane	mg/l	0.0271	0	.025	108.	48-148	L465888-01	WG487207
1,2-Dibromo-3-Chloropropane	mg/l	0.0259	0	.025	104.	37-148	L465888-01	WG487207
1,2-Dibromoethane	mg/l	0.0255	0	.025	102.	41-149	L465888-01	WG487207
1,2-Dichlorobenzene	mg/l	0.0263	0	.025	105.	40-139	L465888-01	WG487207
1,2-Dichloroethane	mg/l	0.0285	0	.025	114.	29-167	L465888-01	WG487207
1,2-Dichloropropane	mg/l	0.0271	0	.025	108.	39-148	L465888-01	WG487207
1,4-Dichlorobenzene	mg/l	0.0253	0	.025	101.	32-136	L465888-01	WG487207
2-Butanone (MEK)	mg/l	0.142	0	.125	113.	32-151	L465888-01	WG487207
2-Hexanone	mg/l	0.126	0	.125	101.	41-155	L465888-01	WG487207
4-Methyl-2-pentanone (MIBK)	mg/l	0.143	0	.125	114.	40-160	L465888-01	WG487207
Acetone	mg/l	0.126	0	.125	101.	25-157	L465888-01	WG487207
Acrylonitrile	mg/l	0.148	0	.125	118.	37-162	L465888-01	WG487207
Benzene	mg/l	0.0278	0	.025	111.	16-158	L465888-01	WG487207
Bromochloromethane	mg/l	0.0278	0	.025	111.	36-154	L465888-01	WG487207
Bromodichloromethane	mg/l	0.0264	0	.025	106.	45-147	L465888-01	WG487207
Bromoform	mg/l	0.0215	0	.025	85.9	38-152	L465888-01	WG487207

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Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Bromomethane	mg/l	0.0242	0	.025	96.8	0-191	L465888-01	WG487207
Carbon disulfide	mg/l	0.0255	0	.025	102.	10-166	L465888-01	WG487207
Carbon tetrachloride	mg/l	0.0282	0	.025	113.	22-168	L465888-01	WG487207
Chlorobenzene	mg/l	0.0255	0	.025	102.	33-148	L465888-01	WG487207
Chlorodibromomethane	mg/l	0.0211	0	.025	84.4	48-151	L465888-01	WG487207
Chloroethane	mg/l	0.0308	0	.025	123.	4-176	L465888-01	WG487207
Chloroform	mg/l	0.0285	0	.025	114.	37-147	L465888-01	WG487207
Chloromethane	mg/l	0.0283	0	.025	113.	10-174	L465888-01	WG487207
cis-1,2-Dichloroethene	mg/l	0.0281	0	.025	112.	29-156	L465888-01	WG487207
cis-1,3-Dichloropropene	mg/l	0.0266	0	.025	106.	35-148	L465888-01	WG487207
Dibromomethane	mg/l	0.0270	0	.025	108.	36-152	L465888-01	WG487207
Ethylbenzene	mg/l	0.0265	0	.025	106.	29-150	L465888-01	WG487207
Iodomethane	mg/l	0.134	0	.125	107.	9-169	L465888-01	WG487207
Methylene Chloride	mg/l	0.0270	0	.025	108.	23-151	L465888-01	WG487207
Styrene	mg/l	0.0270	0	.025	108.	38-149	L465888-01	WG487207
Tetrachloroethene	mg/l	0.0249	0	.025	99.5	13-157	L465888-01	WG487207
Toluene	mg/l	0.0258	0	.025	103.	22-152	L465888-01	WG487207
trans-1,2-Dichloroethene	mg/l	0.0278	0	.025	111.	11-160	L465888-01	WG487207
trans-1,3-Dichloropropene	mg/l	0.0258	0	.025	103.	33-153	L465888-01	WG487207
trans-1,4-Dichloro-2-butene	mg/l	0.0257	0	.025	103.	19-151	L465888-01	WG487207
Trichloroethene	mg/l	0.0257	0	.025	103.	18-163	L465888-01	WG487207
Trichlorofluoromethane	mg/l	0.0280	0	.025	112.	10-177	L465888-01	WG487207
Vinyl acetate	mg/l	0.139	0	.125	112.	0-196	L465888-01	WG487207
Vinyl chloride	mg/l	0.0283	0	.025	113.	0-179	L465888-01	WG487207
Xylenes, Total	mg/l	0.0784	0	.075	104.	27-151	L465888-01	WG487207
4-Bromofluorobenzene					106.3	75-128		WG487207
Dibromofluoromethane					112.9	79-125		WG487207
Toluene-d8					108.2	87-114		WG487207

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Mercury	mg/l	0.00278	0.00250	92.7	70-130	10.6	20	L465862-02	WG485501
Mercury	mg/l	0.00260	0.00268	86.7	70-130	3.03	20	L465897-13	WG485608
Barium	mg/l	0.972	0.984	94.8	75-125	1.23	20	L465897-07	WG485566
Chromium	mg/l	0.961	0.979	96.1	75-125	1.86	20	L465897-07	WG485566
Nickel	mg/l	0.934	0.929	93.4	75-125	0.537	20	L465897-07	WG485566
Silver	mg/l	0.960	0.968	96.0	75-125	0.830	20	L465897-07	WG485566
Vanadium	mg/l	0.939	0.949	93.9	75-125	1.06	20	L465897-07	WG485566
Barium	mg/l	1.05	1.03	103.	75-125	1.92	20	L465854-01	WG485543
Chromium	mg/l	1.06	1.05	106.	75-125	0.948	20	L465854-01	WG485543
Nickel	mg/l	1.02	1.00	102.	75-125	1.98	20	L465854-01	WG485543
Silver	mg/l	1.01	1.00	101.	75-125	0.995	20	L465854-01	WG485543
Vanadium	mg/l	1.03	1.02	103.	75-125	0.976	20	L465854-01	WG485543
Antimony	mg/l	0.0587	0.0603	117.	75-125	2.69	20	L465936-01	WG485656
Arsenic	mg/l	0.0562	0.0560	110.	75-125	0.357	20	L465936-01	WG485656
Beryllium	mg/l	0.0511	0.0514	102.	75-125	0.585	20	L465936-01	WG485656
Cadmium	mg/l	0.0553	0.0564	111.	75-125	1.97	20	L465936-01	WG485656
Copper	mg/l	0.0539	0.0539	104.	75-125	0	20	L465936-01	WG485656
Lead	mg/l	0.0526	0.0540	105.	75-125	2.63	20	L465936-01	WG485656
Selenium	mg/l	0.0548	0.0557	103.	75-125	1.63	20	L465936-01	WG485656

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Level II

L465897

July 30, 2010

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Thallium	mg/l	0.0541	0.0542	108.	75-125	0.185	20	L465936-01	WG485656
Zinc	mg/l	0.0659	0.0672	100.	75-125	1.95	20	L465936-01	WG485656
Barium	mg/l	1.04	1.07	103.	75-125	2.84	20	L465942-01	WG485659
Chromium	mg/l	1.05	1.08	105.	75-125	2.82	20	L465942-01	WG485659
Nickel	mg/l	0.986	1.03	98.5	75-125	4.37	20	L465942-01	WG485659
Silver	mg/l	0.981	0.987	98.1	75-125	0.610	20	L465942-01	WG485659
Vanadium	mg/l	0.997	1.03	99.7	75-125	3.26	20	L465942-01	WG485659
Antimony	mg/l	0.0515	0.0523	101.	75-125	1.54	20	L465897-01	WG485547
Arsenic	mg/l	0.0484	0.0485	96.2	75-125	0.206	20	L465897-01	WG485547
Beryllium	mg/l	0.0465	0.0472	93.0	75-125	1.49	20	L465897-01	WG485547
Cadmium	mg/l	0.0478	0.0490	95.6	75-125	2.48	20	L465897-01	WG485547
Copper	mg/l	0.0475	0.0478	93.4	75-125	0.630	20	L465897-01	WG485547
Lead	mg/l	0.0532	0.0481	106.	75-125	10.1	20	L465897-01	WG485547
Selenium	mg/l	0.0467	0.0446	93.4	75-125	4.60	20	L465897-01	WG485547
Thallium	mg/l	0.0492	0.0490	98.4	75-125	0.407	20	L465897-01	WG485547
Zinc	mg/l	0.0632	0.0562	100.	75-125	11.7	20	L465897-01	WG485547
1,1,1,2-Tetrachloroethane	mg/l	0.0282	0.0286	113.	45-152	1.44	21	L465897-01	WG486940
1,1,1-Trichloroethane	mg/l	0.0242	0.0243	97.0	31-161	0.140	23	L465897-01	WG486940
1,1,2,2-Tetrachloroethane	mg/l	0.0285	0.0282	114.	49-149	1.01	22	L465897-01	WG486940
1,1,2-Trichloroethane	mg/l	0.0285	0.0286	114.	46-145	0.250	20	L465897-01	WG486940
1,1-Dichloroethane	mg/l	0.0226	0.0226	90.3	30-159	0.0100	21	L465897-01	WG486940
1,1-Dichloroethene	mg/l	0.0229	0.0237	91.6	10-162	3.53	23	L465897-01	WG486940
1,2,3-Trichloropropane	mg/l	0.0307	0.0308	123.	48-148	0.350	23	L465897-01	WG486940
1,2-Dibromo-3-Chloropropane	mg/l	0.0228	0.0218	91.3	37-148	4.51	27	L465897-01	WG486940
1,2-Dibromoethane	mg/l	0.0280	0.0282	112.	41-149	0.640	21	L465897-01	WG486940
1,2-Dichlorobenzene	mg/l	0.0256	0.0257	102.	40-139	0.620	23	L465897-01	WG486940
1,2-Dichloroethane	mg/l	0.0238	0.0240	95.2	29-167	0.660	21	L465897-01	WG486940
1,2-Dichloropropane	mg/l	0.0226	0.0226	90.4	39-148	0.0700	20	L465897-01	WG486940
1,4-Dichlorobenzene	mg/l	0.0258	0.0260	103.	32-136	0.760	23	L465897-01	WG486940
2-Butanone (MEK)	mg/l	0.127	0.127	102.	32-151	0.0100	26	L465897-01	WG486940
2-Hexanone	mg/l	0.130	0.126	104.	41-155	2.94	28	L465897-01	WG486940
4-Methyl-2-pentanone (MIBK)	mg/l	0.120	0.117	96.2	40-160	2.43	28	L465897-01	WG486940
Acetone	mg/l	0.118	0.116	94.1	25-157	1.04	26	L465897-01	WG486940
Acrylonitrile	mg/l	0.117	0.115	93.2	37-162	1.76	24	L465897-01	WG486940
Benzene	mg/l	0.0238	0.0235	95.4	16-158	1.44	21	L465897-01	WG486940
Bromochloromethane	mg/l	0.0279	0.0279	112.	36-154	0.0300	21	L465897-01	WG486940
Bromodichloromethane	mg/l	0.0246	0.0249	98.4	45-147	1.28	20	L465897-01	WG486940
Bromoform	mg/l	0.0278	0.0275	111.	38-152	1.06	20	L465897-01	WG486940
Bromomethane	mg/l	0.0319	0.0310	128.	0-191	2.84	35	L465897-01	WG486940
Carbon disulfide	mg/l	0.0205	0.0210	82.1	10-166	2.48	25	L465897-01	WG486940
Carbon tetrachloride	mg/l	0.0224	0.0228	89.5	22-168	1.78	24	L465897-01	WG486940
Chlorobenzene	mg/l	0.0289	0.0287	115.	33-148	0.680	22	L465897-01	WG486940
Chlorodibromomethane	mg/l	0.0276	0.0273	110.	48-151	1.07	21	L465897-01	WG486940
Chloroethane	mg/l	0.0258	0.0265	103.	4-176	2.56	27	L465897-01	WG486940
Chloroform	mg/l	0.0248	0.0247	99.2	37-147	0.300	21	L465897-01	WG486940
Chloromethane	mg/l	0.0236	0.0234	94.4	10-174	0.740	28	L465897-01	WG486940
cis-1,2-Dichloroethene	mg/l	0.0245	0.0240	98.1	29-156	2.17	22	L465897-01	WG486940
cis-1,3-Dichloropropene	mg/l	0.0228	0.0234	91.2	35-148	2.69	21	L465897-01	WG486940
Dibromomethane	mg/l	0.0259	0.0260	104.	36-152	0.390	20	L465897-01	WG486940
Ethylbenzene	mg/l	0.0280	0.0283	112.	29-150	1.18	24	L465897-01	WG486940
Iodomethane	mg/l	0.0846	0.0861	67.7	9-169	1.76	27	L465897-01	WG486940
Methylene Chloride	mg/l	0.0228	0.0224	91.1	23-151	1.51	21	L465897-01	WG486940
Styrene	mg/l	0.0283	0.0287	113.	38-149	1.23	23	L465897-01	WG486940

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Quality Assurance Report
Level II

L465897

July 30, 2010

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Tetrachloroethene	mg/l	0.0302	0.0315	121.	13-157	4.24	24	L465897-01	WG486940
Toluene	mg/l	0.0251	0.0254	100.	22-152	1.15	22	L465897-01	WG486940
trans-1,2-Dichloroethene	mg/l	0.0241	0.0239	96.5	11-160	0.980	23	L465897-01	WG486940
trans-1,3-Dichloropropene	mg/l	0.0246	0.0250	98.4	33-153	1.59	22	L465897-01	WG486940
trans-1,4-Dichloro-2-butene	mg/l	0.0265	0.0258	106.	19-151	2.74	29	L465897-01	WG486940
Trichloroethene	mg/l	0.0266	0.0272	106.	18-163	2.27	21	L465897-01	WG486940
Trichlorofluoromethane	mg/l	0.0294	0.0304	118.	10-177	3.21	24	L465897-01	WG486940
Vinyl acetate	mg/l	0.120	0.118	96.2	0-196	1.85	26	L465897-01	WG486940
Vinyl chloride	mg/l	0.0247	0.0248	98.6	0-179	0.770	26	L465897-01	WG486940
Xylenes, Total	mg/l	0.0855	0.0858	114.	27-151	0.340	23	L465897-01	WG486940
4-Bromofluorobenzene				106.9	75-128				WG486940
Dibromofluoromethane				99.86	79-125				WG486940
Toluene-d8				100.5	87-114				WG486940
1,1,1,2-Tetrachloroethane	mg/l	0.0260	0.0254	104.	45-152	2.48	21	L465888-01	WG487207
1,1,1-Trichloroethane	mg/l	0.0283	0.0281	113.	31-161	0.780	23	L465888-01	WG487207
1,1,2,2-Tetrachloroethane	mg/l	0.0278	0.0266	111.	49-149	4.54	22	L465888-01	WG487207
1,1,2-Trichloroethane	mg/l	0.0267	0.0257	107.	46-145	3.72	20	L465888-01	WG487207
1,1-Dichloroethane	mg/l	0.0283	0.0284	113.	30-159	0.270	21	L465888-01	WG487207
1,1-Dichloroethene	mg/l	0.0292	0.0302	117.	10-162	3.32	23	L465888-01	WG487207
1,2,3-Trichloropropane	mg/l	0.0280	0.0271	112.	48-148	3.35	23	L465888-01	WG487207
1,2-Dibromo-3-Chloropropane	mg/l	0.0267	0.0259	107.	37-148	3.07	27	L465888-01	WG487207
1,2-Dibromoethane	mg/l	0.0261	0.0255	104.	41-149	2.25	21	L465888-01	WG487207
1,2-Dichlorobenzene	mg/l	0.0271	0.0263	108.	40-139	2.93	23	L465888-01	WG487207
1,2-Dichloroethane	mg/l	0.0287	0.0285	115.	29-167	0.720	21	L465888-01	WG487207
1,2-Dichloropropane	mg/l	0.0276	0.0271	110.	39-148	1.78	20	L465888-01	WG487207
1,4-Dichlorobenzene	mg/l	0.0259	0.0253	103.	32-136	2.06	23	L465888-01	WG487207
2-Butanone (MEK)	mg/l	0.140	0.142	112.	32-151	1.41	26	L465888-01	WG487207
2-Hexanone	mg/l	0.131	0.126	104.	41-155	3.23	28	L465888-01	WG487207
4-Methyl-2-pentanone (MIBK)	mg/l	0.146	0.143	117.	40-160	2.29	28	L465888-01	WG487207
Acetone	mg/l	0.128	0.126	102.	25-157	1.26	26	L465888-01	WG487207
Acrylonitrile	mg/l	0.150	0.148	120.	37-162	1.23	24	L465888-01	WG487207
Benzene	mg/l	0.0278	0.0278	111.	16-158	0.0900	21	L465888-01	WG487207
Bromochloromethane	mg/l	0.0284	0.0278	113.	36-154	2.16	21	L465888-01	WG487207
Bromodichloromethane	mg/l	0.0275	0.0264	110.	45-147	4.09	20	L465888-01	WG487207
Bromoform	mg/l	0.0224	0.0215	89.5	38-152	4.18	20	L465888-01	WG487207
Bromomethane	mg/l	0.0238	0.0242	95.3	0-191	1.48	35	L465888-01	WG487207
Carbon disulfide	mg/l	0.0253	0.0255	101.	10-166	0.720	25	L465888-01	WG487207
Carbon tetrachloride	mg/l	0.0280	0.0282	112.	22-168	0.630	24	L465888-01	WG487207
Chlorobenzene	mg/l	0.0261	0.0255	104.	33-148	2.18	22	L465888-01	WG487207
Chlorodibromomethane	mg/l	0.0224	0.0211	89.4	48-151	5.81	21	L465888-01	WG487207
Chloroethane	mg/l	0.0290	0.0308	116.	4-176	6.07	27	L465888-01	WG487207
Chloroform	mg/l	0.0283	0.0285	113.	37-147	0.600	21	L465888-01	WG487207
Chloromethane	mg/l	0.0275	0.0283	110.	10-174	2.65	28	L465888-01	WG487207
cis-1,2-Dichloroethene	mg/l	0.0282	0.0281	113.	29-156	0.520	22	L465888-01	WG487207
cis-1,3-Dichloropropene	mg/l	0.0268	0.0266	107.	35-148	0.750	21	L465888-01	WG487207
Dibromomethane	mg/l	0.0279	0.0270	112.	36-152	3.24	20	L465888-01	WG487207
Ethylbenzene	mg/l	0.0264	0.0265	106.	29-150	0.290	24	L465888-01	WG487207
Iodomethane	mg/l	0.132	0.134	105.	9-169	1.43	27	L465888-01	WG487207
Methylene Chloride	mg/l	0.0270	0.0270	108.	23-151	0.0100	21	L465888-01	WG487207
Styrene	mg/l	0.0271	0.0270	108.	38-149	0.490	23	L465888-01	WG487207
Tetrachloroethene	mg/l	0.0249	0.0249	99.5	13-157	0	24	L465888-01	WG487207
Toluene	mg/l	0.0259	0.0258	104.	22-152	0.750	22	L465888-01	WG487207
trans-1,2-Dichloroethene	mg/l	0.0278	0.0278	111.	11-160	0.110	23	L465888-01	WG487207
trans-1,3-Dichloropropene	mg/l	0.0267	0.0258	107.	33-153	3.40	22	L465888-01	WG487207
trans-1,4-Dichloro-2-butene	mg/l	0.0269	0.0257	107.	19-151	4.52	29	L465888-01	WG487207
Trichloroethene	mg/l	0.0262	0.0257	105.	18-163	1.88	21	L465888-01	WG487207
Trichlorofluoromethane	mg/l	0.0270	0.0280	108.	10-177	3.72	24	L465888-01	WG487207

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Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Vinyl acetate	mg/l	0.141	0.139	113.	0-196	0.970	26	L465888-01	WG487207
Vinyl chloride	mg/l	0.0287	0.0283	115.	0-179	1.24	26	L465888-01	WG487207
Xylenes, Total	mg/l	0.0799	0.0784	106.	27-151	1.83	23	L465888-01	WG487207
4-Bromofluorobenzene				105.8	75-128				WG487207
Dibromofluoromethane				110.8	79-125				WG487207
Toluene-d8				106.2	87-114				WG487207

Batch number /Run number / Sample number cross reference

WG485501: R1270350: L465897-01 02 03 04 05 06 07 08
WG485608: R1270351: L465897-09 10 11 12 13 14
WG485566: R1271688 R1271689: L465897-04 03 05 06 07 08 09
WG485543: R1272355: L465897-01 02
WG485656: R1272378: L465897-10 11 12 13 14
WG485659: R1272509 R1272510: L465897-10 11 12 13 14
WG485547: R1273395: L465897-01 02 03 04 05 06 07 08 09
WG486940: R1276248: L465897-01 02 04 05 06 07 08 09
WG487207: R1277429: L465897-03 10 11 12 13 14

* * Calculations are performed prior to rounding of reported values .
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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.