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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).
- In Accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- 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):

S&ME, Inc. (Consultant)

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

Name: Julie R. Petersen, PG Phone: 704-523-4726

E-mail: jpetersen@smeinc.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Owl's Den Landfill	Owl's Den Road, Lincolnton, NC	None	Closed Prior to Rules	April 12-13, 2007

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 or explosive methane gas limits 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.

Julie R. Petersen, PG	Project Manager	704-523-4726
Facility Representative Name (Print)	Title	(Area Code) Telephone Number

Julie R. Petersen 8/9/07
Signature Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

NORTH CAROLINA LICENSED SEAL 1995 GEOLOGIST JULIE R. PETERSEN

Revised 10/2006

Received
AUG 2007
Waste Management

APRIL 2007
SEMI-ANNUAL MONITORING OF GROUNDWATER, SURFACE WATER, AND METHANE

OWL'S DEN LANDFILL
LINCOLN COUNTY
LINCOLNTON, NORTH CAROLINA
S&ME PROJECT No. 1356-07-006

Prepared for:

LINCOLN COUNTY
5291 Crouse Road
Crouse, North Carolina 28033

Prepared by:

S&ME, INC.
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Project Manager

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August 9, 2007

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1.0 INTRODUCTION

S&ME, Inc. (S&ME) was contracted by Lincoln County Landfill to provide groundwater, surface water and methane monitoring services at the Owl's Den Landfill located off of Owl's Den Road Lincolnton, North Carolina. This monitoring event was conducted on April 12 and 13, 2007.

This report presents the results of the first sampling event for the year 2007 at the facility, which included the sampling of one background well (MW-1), eight compliance wells (MW-2, MW-3, MW-4, MW-5, MW-6, MW-6A, MW-7 and MW-7A), and three surface water locations (SW-1, SW-2 and SW-3). S&ME also collected methane readings at the facility's four methane monitoring wells (MMW-1, MMW-2, MMW-3 and MMW-4).

The next sampling event is scheduled for October 2007 and will include the locations listed above and also four private supply wells (PSW-1, PSW-3, PSW-6, and PSW-16) which are only sampled annually in the fall.

2.0 GROUNDWATER LEVELS AND FLOW DATA

The water table elevations and our interpretation of the groundwater surface expressed as a potentiometric map along with groundwater flow direction are shown on Figure 1. Based upon the groundwater elevations in the vicinity of the landfill, groundwater in this area is projected to flow north-northwest toward the drainage features bordering the site on the west, north and east of the property. Groundwater levels for the monitoring wells are presented in Table 1.

The hydraulic gradient (i) in the vicinity of each well was determined by calculating the vertical difference between the groundwater elevation at each well and one or more nearby contour lines from the Groundwater Surface map. This value was then divided by the distance measured from the well to the selected groundwater elevation contour line. Groundwater velocity was calculated by multiplying the gradient (i) by the hydraulic conductivity (k) and dividing by the estimated effective porosity (n) of the aquifer. Table 2 summarizes the groundwater flow rates for the monitoring wells

3.0 ANALYTICAL DATA

Analytical results for the landfill monitoring wells are summarized in Table 3. The detections above the NCAC 2L groundwater standards and/or SW GWP standards are highlighted in grey. Well sampling logs containing field measurements of pH, conductivity, temperature and water levels are included in the Appendix. The monitoring wells and surface water stations were sampled for EPA Method 8260 and for RCRA metals.

3.1 Monitoring Well Sampling

Volatile Organic Compounds

Twelve VOCs were detected in the up-gradient monitoring well, MW-1. Of the twelve constituents detected, three were detected at levels above their respective NCAC 2L standard and/or their respective SW GWP standard (1,2-Dibromo-3-chloropropane, Tetrachloroethene, and 1,2,3-Trichloropropane).

Ten VOCs were detected in monitoring well MW-2. Of the ten constituents detected, three were detected at levels above their respective NCAC 2L standard and/or their respective SW GWP standard (1,4-Dichlorobenzene, 1,2-Dichloropropane, and Vinyl Chloride).

Eight VOCs were detected in monitoring well MW-3. Of the eight constituents detected, three were detected at levels above their respective NCAC 2L standard and/or their respective SW GWP standard (1,4-Dichlorobenzene, 1,2-Dichloropropane, and Tetrachloroethene).

Ten VOCs were detected in monitoring well MW-4. Of the ten constituents detected, two were detected at levels above their respective NCAC 2L standard and/or their respective SW GWP standard (1,4-Dichlorobenzene, and 1,2-Dichloropropane).

No VOCs were detected in monitoring well MW-5.

No VOCs were detected in monitoring well MW-6.

Four VOCs were detected in monitoring well MW-6A. Of the four constituents detected, one was detected above its respective NCAC 2L standard and/or SW GWP standard (1,4-Dichlorobenzene).

Nine VOCs were detected in monitoring well MW-7. Of the nine constituents detected, two were detected above their respective NCAC 2L standard and/or their respective SW GWP standard (1,4-Dichlorobenzene and Vinyl Chloride).

Seven VOCs were detected in monitoring well MW-7A. Of the seven constituents detected, one was detected at levels above its respective NCAC 2L standard and/or its respective SW GWP standard (1,4-Dichlorobenzene).

Metals

Arsenic was detected in monitoring wells MW-1, MW-3, MW-6, MW-7 and MW-7A at concentrations of 2.5 J to 2.9 J u /L, which are below its respective NCAC 2L Standard of 50 u/L.

Barium was detected in each of the nine monitoring wells, including the background monitoring well MW-1, at concentrations ranging from 88.6 J to 601 µg/L, which are below its NCAC 2L standard of 2000 µg/L.

Cadmium was detected in monitoring well MW-2 at a concentration of 1.8 µg/L and in MW-7 at a concentration of 2.2 µg/L, which are above its NCAC 2L standard of 1.75µg/L.

Selenium was detected in in monitoring well MW-1 at a concentration of 2.8 J ug/L, which is below its respective NCAC 2L standard of 50 ug/L.

Please note that the concentrations of metals in the monitoring wells fluctuate with time and may be due to suspended solids rather than actual dissolved metals.

No other metals were detected in the monitoring wells.

3.2 Surface Water Sampling

The volatile organic compound c-1,2-dichloroethene was detected in surface water sampling location SW-3 at a concentration of 0.72 J µg/L. The NCAC 2B Freshwater standard for c-1,2-dichloroethane is 13,000 µg/L.

The volatile organic compound 1,1-Dichloroethane was detected in surface water sampling locations SW-2 and SW-3 at concentrations of 0.33 J µg/L and 0.42 J µg/L, respectively. The NCAC 2B Freshwater standard for 1,1-Dichloroethane is 19,500 µg/L.

The volatile organic compound Chlorobenzene was detected in surface water sampling location SW-3 at a concentration of 0.48 J µg/L. The NCAC 2B Freshwater standard for chlorobenzene/ is 21,000 µg/L.

Barium was detected in all three surface water sampling locations SW-1, SW-2 and SW-3 at concentrations ranging from 42.6 to 281 µg/L. The NCAC 2B Freshwater standard established for barium is 1,400 µg/L.

Arsenic was detected in surface water sampling location SW-2 at a concentration of 4.8 J µg/L. The surface water quality standard for arsenic is 50 µg/L.

4.0 METHANE READINGS

Methane readings were taken from the four methane monitoring wells (MMW-1, MMW-2, MMW-3, and MMW-4) during the April 2007 semi-annual groundwater sampling event. Please note that all methane monitoring wells were at 100 % of the lower explosive limit. Table 5 summarizes the data collected.

TABLES

Table 1
April 12, 2007 - Water Level Elevations
Lincolnton, North Carolina
Lincoln County Owl's Den Landfill
S&ME Project No. 1356-07-006

Well Identification		Ground Surface Elevation (ft - MSL)	Top of Casing Elevation (ft - MSL)	Depth to Groundwater From Top of Casing (ft)	Groundwater Elevation (ft - MSL)
Background Well	MW-1	863.20	865.69	31.31	834.38
Compliance Well	MW-2	822.50	824.96	24.71	800.25
Compliance Well	MW-3	870.20	872.60	38.53	834.07
Compliance Well	MW-4	831.80	833.90	39.40	794.50
Compliance Well	MW-5	835.90	839.10	25.69	813.41
Compliance Well	MW-6	805.44	808.55	16.23	792.32
Compliance Well	MW-6A	805.17	808.61	18.24	790.37
Compliance Well	MW-7	815.47	818.44	22.42	796.02
Compliance Well	MW-7A	814.68	817.48	21.02	796.46

Notes:

(ft - MSL) - Feet Mean Sea Level
(ft) - Feet
The "A" suffix on the well locations indicates the deep well of the pair.

Table 2
April 12 2007 - Groundwater Flow Velocity
Lincoln County Owl's Den Landfill
S&ME Project No. 1356-07-006

Well Identification	Hydraulic Conductivity (K) ft/yr	Effective Porosity (n^e) %	Hydraulic Gradient (i) ft/ft	Seepage Velocity (v) ft/yr
MW-1	4.3E+02	0.20	0.029	62
MW-2	2.6E+03	0.28	0.05	471
MW-3	9.8E+02	0.33	0.026	77
MW-4	1.3E+03	0.30	0.039	173
MW-5	6.2E+02	0.27	0.038	87
MW-6	4.2E+02	0.29	0.018	26
MW-7	2.1E+02	0.30	0.077	54

Notes:

(1) Hydraulic Conductivity was calculated from slug tests performed after well construction.

(2) Effective porosity was estimated from soils collected within the saturated portion of screen interval during well construction

(3) Hydraulic gradient calculated by measuring linear feet between selected contour intervals.

(4) Seepage velocity $v = (K*i)/n^e$

Table 3
April 12, 2007 - Detected Analytes in Groundwater Monitor Wells
Lincoln County Owl's Den Landfill
Lincolnton, North Carolina
S&ME Project No. 1356-07-006

EPA Volatile Organic Compounds Method 8260B (ug/L)	NCDENR SWSL	15A NCAC 2L	Soild Waste GWP ST	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-6A	MW-7	MW-7A
1,1- Dichloroethane	5	70	NE		3.7	2.4	4.8				1.2	0.88 J
1,1-Dichloropropene	5	NE	NE	5								
1,2-Dichlorobenzene	5	24	NE		0.68 J		4.4			2	0.69 J	0.62 J
1,2-Dichloropropane	1	0.51	NE		**3.1**	**2**	**1.3**			0.51 J		
1,2,3-Trichlorobenzene	NE	NE	NE	1.7								
1,2,3-Trichloropropane	1	0.005	0.018	**1.9**								
1,2,4-Trichlorobenzene	10	70	70	1.6								
1,2-Dibromo-3-chloropropane	13	0.025	NE	**1**								
1,3-Dichlorobenzene	5	NE	NE		0.36 J		1.2			0.43 J	0.59 J	0.77 J
1,3,5-Trimethylbenzene	NE	NE	NE				1.4					
1,4-Dichlorobenzene	1	1.4	NE		**6.1**	**9**	**15**			**4.3**	**5.5**	**4.5**
2-Butanone	100	4200	NE	4.2 J								
2-Chloroethyl Vinyl Ether	NE	NE	NE	3.4								
2-Chlorotoluene	NE	NE	NE		4.3	1	0.55 J				1.7	1.2
2-Hexanone	50	280	280	0.41 J								
Bromoform	3	4.43	NE	2.2								
Bromomethane	10	NE	NE	1.5								
Chlorobenzene	3	50	NE		5.1	5.2	7.3				2.5	2.6
cis-1,2-Dichloroethene	5	70	NE		7	3.6					3.5	3
Isopropylbenzene	NE	NE	NE			1.5	0.51					
Methyl-tert-Butyl Ether	NE	NE	NE		1.3						0.46	
n-Butyl Benzene	NE	NE	NE				0.38 J					
Naphthalene	10	21	NE	2.3								
Tetrachloroethene	1	0.7	NE	**0.83 J**		**3.5**						
Vinyl chloride	1	0.015	NE		**0.75 J**						**0.8 J**	
EPA RCRA Metals Method 6010B (ug/L)												
Arsenic	10	50	NE	2.7 J		2.5 J			2.7 J		2.6 J	2.9 J
Barium	100	2000	NE	122	601	524	531	88.6	140	455	529	377
Cadmium	1	1.75	NE		**1.8**						**2.2**	
Selenium	10	50	NE	2.8 J								

Notes:

(1) ug/L = micrograms per liter (parts per billion)

(2) 15A NCAC 2L = North Carolina Groundwater Quality Standards

(3) GWP ST = Solid Waste Groundwater Protection Standard

(4) NE = No established standard

(5) Bold and highlighted indicates above 15A NCAC 2L or GWP ST

(6) Compounds not shown were not detected.

(7) Target analytes not shown were reported as below detection limits

(8) SWSL = North Carolina Department of Environmtent and Natural Resources Solid Waste Section Limit established in 2007

Table 4
April 12, 2007 - Detected Analytes in Surface Water Samples
Lincoln County Owl's Den Landfill
Lincolnton, North Carolina
S&ME Project No. 1356-07-006

EPA Volatile Organic Compounds Method 8260B (ug/L)	**15A NCAC 2B**	**SW-1**	**SW-2**	**SW-3**
1,1- Dichloroethane	19500		0.33 J	0.42 J
Chlorobenzene	21000			0.48 J
cis-1,2-Dichloroethene	13000			0.72 J
EPA RCRA Metals Method 6010B (ug/L)				
Arsenic	50		4.8 J	
Barium	1400	42.6	198	281

Notes:

(1) ug/L = micrograms per liter (parts per billion)
(2) 15A NCAC 2B = North Carolina Surface Water Quality Standards for Freshwater
(3) NE = No established standard
(4) Bold indicates above 15A NCAC 2B
(5) Compounds not shown were not detected.
(6) Target analytes not shown were reported as below detection limits

Table 5
April 12,2007 - Methane Readings in Methane Monitor Wells
Lincoln County Owl's Den Landfill
Lincolnton, North Carolina
S&ME Project No. 1356-07-006

Methane Well Identification	Percent Methane	Percent Lower Explosive Limit
MMW-1	100	100
MMW-2	100	100
MMW-3	20	100
MMW-4	100	100

FIGURES

AERIAL PHOTO SOURCE: US GEOLOGICAL SURVEY

LEGEND

- EDGE OF WASTE (SURVEY BY S&ME)
- PROPERTY BOUNDARY (SURVEY BY BUCKNER & ASSOC.)
- APPROXIMATE CREEK LOCATION
- POTENTIOMETRIC SURFACE (4/12/07)
- SURFACE WATER SAMPLING LOCATION
- GROUNDWATER MONITORING WELL LOCATION
- NESTED GROUNDWATER MONITORING WELL LOCATION
- METHANE MONITOR WELL LOCATION

GRAPHIC SCALE

200 0 100 200 400

(IN FEET)

SCALE:	AS SHOWN
PROJECT NO.	1356-07-006
DATE:	08-09-07
DRAWN BY:	CLD
CHECKED BY:	WAQ

S&ME
WWW.SMEINC.COM

GROUNDWATER SURFACE MAP
4/12/07

OWL'S DEN LANDFILL
LINCOLNTON, NORTH CAROLINA

FIGURE NO.
1

APPENDIX I

WELL SAMPLING LOGS AND LABORATORY REPORTS

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006

S&ME

Well ID MW-1

Sampling Personnel (1) Tom Steelman (2) Greg Speidel
Weather Conditions Sunny/ 50F
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 2.8
Depth to Water (ft) 31.31
Depth to Base of Well (ft) 47.5
(well casing volume = water column*0.174)
Water Column (ft) 16.2
Equipment Used to Measure Depths Electronic Water Level Probe

Well Purging Data

Date 4/12/2007
Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (°C)	Conductance (µS)
Initial	0	9:35	5.85	15.6	43
	2.8	9:40	4.57	15.6	31
	5.5	9:45	4.58	16.0	30
Final	8.3	9:50	4.38	16.0	30

Well Sampling Data

Sampling Date 4/13/2007
Sampling Time 8:27
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006

S&ME

Well ID MW-2

Sampling Personnel (1) Tom Steelman (2) Greg Speidel
Weather Conditions Sunny/ 50F
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC Well Casing Volume 2.7
Depth to Water (ft) 24.71
Depth to Base of Well (ft) 40.5 (well casing volume = water column*0.174)
Water Column (ft) 15.8
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/12/2007 Purging Equipment Field Cleaned Whale Pump

	Total Voume (Gal)	Time	pH	Temp (°C)	Conductance (µS)
Initial	0	10:26	7.39	17.3	498
	2.7	10:28	6.81	17.1	484
	5.4	10:30	6.82	16.9	496
Final	8.0	10:32	6.62	16.8	500

Well Sampling Data

Sampling Date 4/13/2007
Sampling Time 8:55
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006

S&ME

Well ID MW-3

Sampling Personnel (1) Tom Steelman (2) Greg Speidel
Weather Conditions Sunny/ 50F
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC Well Casing Volume 2.0
Depth to Water (ft) 38.53
Depth to Base of Well (ft) 50.4 (well casing volume = water column*0.174)
Water Column (ft) 11.9
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/12/2007 Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (°C)	Conductance (µS)
Initial	0	9:58	6.54	16.2	357
	2.0	10:02	6.61	15.8	315
	4.0	10:05	6.41	15.6	303
Final	6.0	10:10	6.22	15.6	310

Well Sampling Data

Sampling Date 4/13/2007
Sampling Time 8:42
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006

S&ME

Well ID MW-4

Sampling Personnel (1) Tom Steelman (2) Greg Speidel
Weather Conditions Sunny/ 50F
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC
Well Casing Volume 3.0
Depth to Water (ft) 39.4
Depth to Base of Well (ft) 57.1
(well casing volume = water column*0.174)
Water Column (ft) 17.7
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/12/2007
Purging Equipment Field Cleaned Whale Pump

	Total Voume (Gal)	Time	pH	Temp (°C)	Conductance (µS)
Initial	0	13:26	7.02	20.0	1120
	3.0	13:29	7.17	19.0	1054
	6.0	13:32	7.07	18.3	1039
Final	9.0	13:36	7.02	19.3	921

Well Sampling Data

Sampling Date 4/13/2007
Sampling Time 10:10
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006

S&ME

Well ID MW-5

Sampling Personnel (1) Tom Steelman (2) Greg Speidel
Weather Conditions Sunny/ 50F
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC Well Casing Volume 1.3
Depth to Water (ft) 25.69
Depth to Base of Well (ft) 33.2 (well casing volume = water column*0.174)
Water Column (ft) 7.51
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/12/2007 Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (°C)	Conductance (µS)
Initial	0	12:55	6.89	16.7	102
	1.3	12:59	6.14	15.4	74
	2.6	13:03	5.75	15.0	70
Final	3.9	13:07	5.74	15.0	70

Well Sampling Data

Sampling Date 4/13/2007
Sampling Time 9:45
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006

S&ME

Well ID MW-6

Sampling Personnel (1) Tom Steelman (2) Greg Speidel
Weather Conditions Sunny/ 50F
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC Well Casing Volume 1.3
Depth to Water (ft) 16.23
Depth to Base of Well (ft) 24.11 (well casing volume = water column*0.174)
Water Column (ft) 7.88
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/12/2007 Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (°C)	Conductance (µS)
Initial	0	13:45	7.28	17.4	192
	1.3	13:48	6.76	15.6	196
	2.7	13:51	6.74	14.7	221
Final	4.0	13:54	6.74	14.4	178

Well Sampling Data

Sampling Date 4/13/2007
Sampling Time 10:15
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006

S&ME

Well ID MW-6A

Sampling Personnel (1) Tom Steelman (2) Greg Speidel
Weather Conditions Sunny/ 50F
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC Well Casing Volume 7.0
Depth to Water (ft) 18.24
Depth to Base of Well (ft) 58.44 (well casing volume = water column*0.174)
Water Column (ft) 40.20
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/12/2007 Purging Equipment Field Cleaned Whale Pump

	Total Voume (Gal)	Time	pH	Temp (°C)	Conductance (µS)
Initial	0	13:46	7.19	16.6	378
	7.0	13:50	6.95	15.4	410
	14.0	13:54	6.95	14.7	609
Final	21.0	13:58	7.18	15.3	828

Well Sampling Data

Sampling Date 4/13/2007
Sampling Time 10:20
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006

S&ME

Well ID MW-7

Sampling Personnel (1) Tom Steelman (2) Greg Speidel
Weather Conditions Sunny/ 50F
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC Well Casing Volume 0.9
Depth to Water (ft) 22.42
Depth to Base of Well (ft) 27.97 (well casing volume = water column*0.174)
Water Column (ft) 5.55
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/12/2007 Purging Equipment Disposable Teflon Bailer

	Total Voume (Gal)	Time	pH	Temp (°C)	Conductance (µS)
Initial	0	10:42	6.68	16.5	487
	0.9	10:44	6.67	16.5	463
	1.9	10:46	6.68	16.4	476
Final	2.8	10:49	6.69	16.4	478

Well Sampling Data

Sampling Date 4/13/2007
Sampling Time 9:15
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments

Project Name: Owl's Den Landfill
Project Location: Lincoln County, North Carolina
Project Number: 1356-07-006

S&ME

Well ID MW-7A

Sampling Personnel (1) Tom Steelman (2) Greg Speidel
Weather Conditions Sunny/ 50F
Unusual Site Conditions

Water Level Data

Measuring Point Location TOC Well Casing Volume 5.7
Depth to Water (ft) 21.02
Depth to Base of Well (ft) 54.3 (well casing volume = water column*0.174)
Water Column (ft) 33.28
Equipment Used to Measure Depths Electric Water Level Probe

Well Purging Data

Date 4/12/2007 Purging Equipment Field Cleaned Whale Pump

	Total Voume (Gal)	Time	pH	Temp (°C)	Conductance (µS)
Initial	0	10:40	6.77	16.5	388
	5.7	10:43	6.83	16.5	368
	11.3	10:46	6.80	16.5	368
Final	17.0	10:49	6.97	16.6	376

Well Sampling Data

Sampling Date 4/13/2007
Sampling Time 9:05
Sampling Equipment Disposable Teflon Bailer
Sample Observations clear

Analytical Data

Method	Container Type and No.	Preservation
Method 8260	(3) 40 ml glass vials	HCL
RCRA Metals	(1) 250 ml plastic bottles	HNO3

Comments

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515

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Thursday, April 26, 2007

S&ME, Inc. (SM002)
Attn: Courtney Withers
P.O. Box 7668
Charlotte, NC 28241-7668

RE: Project Number: 1356-07-006, Project Name/Desc: Owl's Den LF - Surfacewater
ENCO Workorder: C703509

Dear Courtney Withers,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Saturday, April 14, 2007.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

This data has been produced in accordance with NELAC standards (June, 2003). This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 16.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: SW-1 **Lab ID:** C703509-01

Sampled: 04/13/07 09:55 **Received:** 04/14/07 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/10/07	04/17/07 08:51	4/19/2007 15:19
EPA 7470A	05/11/07	04/19/07 08:45	4/20/2007 12:12
EPA 8260B	04/27/07	04/25/07 14:34	4/26/2007 07:18

Client ID: SW-2 **Lab ID:** C703509-02

Sampled: 04/13/07 10:30 **Received:** 04/14/07 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/10/07	04/17/07 08:51	4/19/2007 15:26
EPA 7470A	05/11/07	04/19/07 08:45	4/20/2007 12:14
EPA 8260B	04/27/07	04/25/07 14:34	4/26/2007 07:45

Client ID: SW-3 **Lab ID:** C703509-03

Sampled: 04/13/07 09:25 **Received:** 04/14/07 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/10/07	04/17/07 08:51	4/19/2007 15:33
EPA 7470A	05/11/07	04/19/07 08:45	4/20/2007 12:17
EPA 8260B	04/27/07	04/25/07 14:34	4/26/2007 08:10

SAMPLE DETECTION SUMMARY

Client ID: SW-1 **Lab ID: C703509-01**

Analyte	Results/Qual	MRL	Units	Method
Barium	42.6	10.0	ug/L	EPA 6010B

Client ID: SW-2 **Lab ID: C703509-02**

Analyte	Results/Qual	MRL	Units	Method
1,1-Dichloroethane	0.33 J	1.0	ug/L	EPA 8260B
Arsenic	4.8 J	10.0	ug/L	EPA 6010B
Barium	198	10.0	ug/L	EPA 6010B

Client ID: SW-3 **Lab ID: C703509-03**

Analyte	Results/Qual	MRL	Units	Method
1,1-Dichloroethane	0.42 J	1.0	ug/L	EPA 8260B
Barium	281	10.0	ug/L	EPA 6010B
Chlorobenzene	0.48 J	1.0	ug/L	EPA 8260B
cis-1,2-Dichloroethene	0.72 J	1.0	ug/L	EPA 8260B

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ANALYTICAL REPORT

Sample ID:	SW-1	Project:	Owl's Den LF - Surfacewater
Lab #:	C703509-01	Work Order #:	C703509
Prep. Method:	EPA 5030B_MS	Matrix:	Surface Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	ug/L
1,1-Dichloroethane	75-34-3	0.090 U	0.090	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	ug/L
1,1-Dichloropropene	563-58-6	0.13 U	0.13	1.0	ug/L
1,2,3-Trichlorobenzene	87-61-6	0.28 U	0.28	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	ug/L
1,2,4-Trichlorobenzene	120-82-1	0.14 U	0.14	1.0	ug/L
1,2,4-Trimethylbenzene	95-63-6	0.096 U	0.096	1.0	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	ug/L
1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	1.0	ug/L
1,3-Dichlorobenzene	541-73-1	0.15 U	0.15	1.0	ug/L
1,3-Dichloropropane	142-28-9	0.18 U	0.18	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	1.0	ug/L
2,2-Dichloropropane	594-20-7	0.16 U	0.16	1.0	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	ug/L
2-Chloroethyl Vinyl Ether	110-75-8	0.79 U	0.79	1.0	ug/L
2-Chlorotoluene	95-49-8	0.13 U	0.13	1.0	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	ug/L
4-Chlorotoluene	106-43-4	0.20 U	0.20	1.0	ug/L
4-Isopropyltoluene	99-87-6	0.074 U	0.074	1.0	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	ug/L
Bromobenzene	108-86-1	0.23 U	0.23	1.0	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	ug/L

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ANALYTICAL REPORT

Sample ID:	SW-1	Project:	Owl's Den LF - Surfacewater
Lab #:	C703509-01	Work Order #:	C703509
Prep. Method:	EPA 5030B_MS	Matrix:	Surface Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14 U	0.14	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	ug/L
Dichlorodifluoromethane	75-71-8	0.14 U	0.14	1.0	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	ug/L
Hexachlorobutadiene	87-68-3	0.33 U	0.33	1.0	ug/L
Isopropylbenzene	98-82-8	0.10 U	0.10	0.20	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	2.0	ug/L
Methyl-tert-Butyl Ether	1634-04-4	0.10 U	0.10	1.0	ug/L
Naphthalene	91-20-3	0.25 U	0.25	1.0	ug/L
n-Butyl Benzene	104-51-8	0.11 U	0.11	1.0	ug/L
n-Propyl Benzene	103-65-1	0.13 U	0.13	1.0	ug/L
sec-Butylbenzene	135-98-8	0.082 U	0.082	1.0	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	ug/L
tert-Butylbenzene	98-06-6	0.16 U	0.16	1.0	ug/L
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	ug/L

Surrogate Recovery		Result		Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	65	S-GC	50.0	131 %	67-125
Dibromofluoromethane	1868-53-7	43		50.0	86 %	69-111
Toluene-d8	2037-26-5	53		50.0	105 %	85-120

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ANALYTICAL REPORT

Sample ID: SW-1
Lab #: C703509-01

Project: Owl's Den LF - Surfacewater
Work Order #: C703509
Matrix: Surface Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Barium	7440-39-3	**42.6**		0.20	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Cadmium	7440-43-9	0.50	U	0.50	1.00	ug/L	EPA 6010B	EPA 3005A	7D17005
Chromium	7440-47-3	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Lead	7439-92-1	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Mercury	7439-97-6	0.11	U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	7D19005
Selenium	7782-49-2	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Silver	7440-22-4	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005

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ANALYTICAL REPORT

Sample ID:	SW-2	Project:	Owl's Den LF - Surfacewater
Lab #:	C703509-02	Work Order #:	C703509
Prep. Method:	EPA 5030B_MS	Matrix:	Surface Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	ug/L
1,1-Dichloroethane	75-34-3	**0.33 J**	0.090	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	ug/L
1,1-Dichloropropene	563-58-6	0.13 U	0.13	1.0	ug/L
1,2,3-Trichlorobenzene	87-61-6	0.28 U	0.28	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	ug/L
1,2,4-Trichlorobenzene	120-82-1	0.14 U	0.14	1.0	ug/L
1,2,4-Trimethylbenzene	95-63-6	0.096 U	0.096	1.0	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	ug/L
1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	1.0	ug/L
1,3-Dichlorobenzene	541-73-1	0.15 U	0.15	1.0	ug/L
1,3-Dichloropropane	142-28-9	0.18 U	0.18	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	1.0	ug/L
2,2-Dichloropropane	594-20-7	0.16 U	0.16	1.0	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	ug/L
2-Chloroethyl Vinyl Ether	110-75-8	0.79 U	0.79	1.0	ug/L
2-Chlorotoluene	95-49-8	0.13 U	0.13	1.0	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	ug/L
4-Chlorotoluene	106-43-4	0.20 U	0.20	1.0	ug/L
4-Isopropyltoluene	99-87-6	0.074 U	0.074	1.0	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	ug/L
Bromobenzene	108-86-1	0.23 U	0.23	1.0	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	ug/L

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ANALYTICAL REPORT

Sample ID:	SW-2	Project:	Owl's Den LF - Surfacewater
Lab #:	C703509-02	Work Order #:	C703509
Prep. Method:	EPA 5030B_MS	Matrix:	Surface Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14 U	0.14	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	ug/L
Dichlorodifluoromethane	75-71-8	0.14 U	0.14	1.0	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	ug/L
Hexachlorobutadiene	87-68-3	0.33 U	0.33	1.0	ug/L
Isopropylbenzene	98-82-8	0.10 U	0.10	0.20	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	2.0	ug/L
Methyl-tert-Butyl Ether	1634-04-4	0.10 U	0.10	1.0	ug/L
Naphthalene	91-20-3	0.25 U	0.25	1.0	ug/L
n-Butyl Benzene	104-51-8	0.11 U	0.11	1.0	ug/L
n-Propyl Benzene	103-65-1	0.13 U	0.13	1.0	ug/L
sec-Butylbenzene	135-98-8	0.082 U	0.082	1.0	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	ug/L
tert-Butylbenzene	98-06-6	0.16 U	0.16	1.0	ug/L
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	ug/L

Surrogate Recovery		Result		Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	66	S-GC	50.0	131 %	67-125
Dibromofluoromethane	1868-53-7	45		50.0	90 %	69-111
Toluene-d8	2037-26-5	52		50.0	104 %	85-120

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ANALYTICAL REPORT

Sample ID: SW-2
Lab #: C703509-02

Project: Owl's Den LF - Surfacewater
Work Order #: C703509
Matrix: Surface Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	**4.8**	J	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Barium	7440-39-3	**198**		0.20	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Cadmium	7440-43-9	0.50	U	0.50	1.00	ug/L	EPA 6010B	EPA 3005A	7D17005
Chromium	7440-47-3	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Lead	7439-92-1	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Mercury	7439-97-6	0.11	U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	7D19005
Selenium	7782-49-2	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Silver	7440-22-4	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005

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ANALYTICAL REPORT

Sample ID:	SW-3	Project:	Owl's Den LF - Surfacewater
Lab #:	C703509-03	Work Order #:	C703509
Prep. Method:	EPA 5030B_MS	Matrix:	Surface Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	ug/L
1,1-Dichloroethane	75-34-3	**0.42 J**	0.090	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	ug/L
1,1-Dichloropropene	563-58-6	0.13 U	0.13	1.0	ug/L
1,2,3-Trichlorobenzene	87-61-6	0.28 U	0.28	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	ug/L
1,2,4-Trichlorobenzene	120-82-1	0.14 U	0.14	1.0	ug/L
1,2,4-Trimethylbenzene	95-63-6	0.096 U	0.096	1.0	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	ug/L
1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	1.0	ug/L
1,3-Dichlorobenzene	541-73-1	0.15 U	0.15	1.0	ug/L
1,3-Dichloropropane	142-28-9	0.18 U	0.18	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	1.0	ug/L
2,2-Dichloropropane	594-20-7	0.16 U	0.16	1.0	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	ug/L
2-Chloroethyl Vinyl Ether	110-75-8	0.79 U	0.79	1.0	ug/L
2-Chlorotoluene	95-49-8	0.13 U	0.13	1.0	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	ug/L
4-Chlorotoluene	106-43-4	0.20 U	0.20	1.0	ug/L
4-Isopropyltoluene	99-87-6	0.074 U	0.074	1.0	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	ug/L
Bromobenzene	108-86-1	0.23 U	0.23	1.0	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	ug/L

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ANALYTICAL REPORT

Sample ID:	SW-3	Project:	Owl's Den LF - Surfacewater
Lab #:	C703509-03	Work Order #:	C703509
Prep. Method:	EPA 5030B_MS	Matrix:	Surface Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	ug/L
Chlorobenzene	108-90-7	**0.48** J	0.16	1.0	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	**0.72** J	0.14	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	ug/L
Dichlorodifluoromethane	75-71-8	0.14 U	0.14	1.0	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	ug/L
Hexachlorobutadiene	87-68-3	0.33 U	0.33	1.0	ug/L
Isopropylbenzene	98-82-8	0.10 U	0.10	0.20	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	2.0	ug/L
Methyl-tert-Butyl Ether	1634-04-4	0.10 U	0.10	1.0	ug/L
Naphthalene	91-20-3	0.25 U	0.25	1.0	ug/L
n-Butyl Benzene	104-51-8	0.11 U	0.11	1.0	ug/L
n-Propyl Benzene	103-65-1	0.13 U	0.13	1.0	ug/L
sec-Butylbenzene	135-98-8	0.082 U	0.082	1.0	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	ug/L
tert-Butylbenzene	98-06-6	0.16 U	0.16	1.0	ug/L
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	ug/L

Surrogate Recovery		Result		Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	64	S-GC	50.0	127 %	67-125
Dibromofluoromethane	1868-53-7	44		50.0	87 %	69-111
Toluene-d8	2037-26-5	52		50.0	104 %	85-120

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ANALYTICAL REPORT

Sample ID: SW-3
Lab #: C703509-03

Project: Owl's Den LF - Surfacewater
Work Order #: C703509
Matrix: Surface Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Barium	7440-39-3	**281**		0.20	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Cadmium	7440-43-9	0.50	U	0.50	1.00	ug/L	EPA 6010B	EPA 3005A	7D17005
Chromium	7440-47-3	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Lead	7439-92-1	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Mercury	7439-97-6	0.11	U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	7D19005
Selenium	7782-49-2	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Silver	7440-22-4	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes

Volatile Organic Compounds by GCMS - Quality Control

Batch 7D25025 - EPA 5030B_MS

Blank (7D25025-BLK1) Prepared: 04/25/2007 14:34 Analyzed: 04/25/2007 23:58

Acetone	0.90 U	5.0	ug/L
Methyl-tert-Butyl Ether	0.10 U	1.0	ug/L
Benzene	0.12 U	1.0	ug/L
2-Butanone	0.56 U	5.0	ug/L
2-Hexanone	0.24 U	5.0	ug/L
Isopropylbenzene	0.10 U	0.20	ug/L
Bromobenzene	0.23 U	1.0	ug/L
Tetrachloroethene	0.25 U	1.0	ug/L
4-Methyl-2-pentanone	0.36 U	5.0	ug/L
n-Propyl Benzene	0.13 U	1.0	ug/L
Bromochloromethane	0.19 U	1.0	ug/L
Trichloroethene	0.23 U	1.0	ug/L
n-Butyl Benzene	0.11 U	1.0	ug/L
Bromodichloromethane	0.19 U	0.40	ug/L
Bromoform	0.36 U	1.0	ug/L
Bromomethane	0.21 U	1.0	ug/L
sec-Butylbenzene	0.082 U	1.0	ug/L
tert-Butylbenzene	0.16 U	1.0	ug/L
Carbon disulfide	0.12 U	5.0	ug/L
Carbon tetrachloride	0.38 U	1.0	ug/L
Chlorobenzene	0.16 U	1.0	ug/L
Chloroethane	0.40 U	1.0	ug/L
2-Chloroethyl Vinyl Ether	0.79 U	1.0	ug/L
Chloroform	0.16 U	1.0	ug/L
Chloromethane	0.18 U	1.0	ug/L
2-Chlorotoluene	0.13 U	1.0	ug/L
4-Chlorotoluene	0.20 U	1.0	ug/L
Dibromochloromethane	0.18 U	1.0	ug/L
1,2-Dibromo-3-chloropropane	0.19 U	1.0	ug/L
1,2-Dibromoethane	0.19 U	1.0	ug/L
Dibromomethane	0.14 U	1.0	ug/L
1,2-Dichlorobenzene	0.17 U	1.0	ug/L
1,3-Dichlorobenzene	0.15 U	1.0	ug/L
1,4-Dichlorobenzene	0.15 U	1.0	ug/L
Dichlorodifluoromethane	0.14 U	1.0	ug/L
1,1-Dichloroethane	0.090 U	1.0	ug/L
1,2-Dichloroethane	0.36 U	1.0	ug/L
1,1-Dichloroethene	0.14 U	1.0	ug/L
cis-1,2-Dichloroethene	0.14 U	1.0	ug/L
trans-1,2-Dichloroethene	0.10 U	1.0	ug/L
1,2-Dichloropropane	0.18 U	1.0	ug/L
1,3-Dichloropropane	0.18 U	1.0	ug/L
2,2-Dichloropropane	0.16 U	1.0	ug/L
1,1-Dichloropropene	0.13 U	1.0	ug/L
cis-1,3-Dichloropropene	0.16 U	0.20	ug/L

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Volatile Organic Compounds by GCMS - Quality Control										
Batch 7D25025 - EPA 5030B_MS										
Blank (7D25025-BLK1) Continued				Prepared: 04/25/2007 14:34 Analyzed: 04/25/2007 23:58						
trans-1,3-Dichloropropene	0.18 U	0.20	ug/L							
Ethylbenzene	0.17 U	1.0	ug/L							
Hexachlorobutadiene	0.33 U	1.0	ug/L							
4-Isopropyltoluene	0.074 U	1.0	ug/L							
Methylene chloride	0.088 U	2.0	ug/L							
Naphthalene	0.25 U	1.0	ug/L							
Styrene	0.12 U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	0.16 U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.27 U	1.0	ug/L							
Toluene	0.15 U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.28 U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14 U	1.0	ug/L							
1,1,1-Trichloroethane	0.24 U	1.0	ug/L							
1,1,2-Trichloroethane	0.24 U	1.0	ug/L							
Trichlorofluoromethane	0.16 U	1.0	ug/L							
1,2,3-Trichloropropane	0.32 U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.096 U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.11 U	1.0	ug/L							
Vinyl chloride	0.15 U	1.0	ug/L							
Xylenes (Total)	0.21 U	1.0	ug/L							
Surrogate: Toluene-d8	*54*		*ug/L*	*50.0*		*109*	*85-120*			
Surrogate: 4-Bromofluorobenzene	*67*		*ug/L*	*50.0*		*134*	*67-125*			S-GC
Surrogate: Dibromofluoromethane	*46*		*ug/L*	*50.0*		*91*	*69-111*			
LCS (7D25025-BS1)				Prepared: 04/25/2007 14:34 Analyzed: 04/26/2007 00:24						
Benzene	19	1.0	ug/L	20.0		95	76-116			
Trichloroethene	21	1.0	ug/L	20.0		103	81-118			
Chlorobenzene	20	1.0	ug/L	20.0		99	75-115			
1,1-Dichloroethene	17	1.0	ug/L	20.0		84	57-141			
Toluene	18	1.0	ug/L	20.0		88	77-120			
Matrix Spike (7D25025-MS1)		**Source: C705620-05**		Prepared: 04/25/2007 14:34 Analyzed: 04/26/2007 00:50						
Benzene	19	1.0	ug/L	20.0	0.12 U	94	76-116			
Trichloroethene	21	1.0	ug/L	20.0	0.23 U	103	81-118			
Chlorobenzene	20	1.0	ug/L	20.0	0.16 U	102	75-115			
1,1-Dichloroethene	17	1.0	ug/L	20.0	0.14 U	85	57-141			
Toluene	18	1.0	ug/L	20.0	0.15 U	89	77-120			
Matrix Spike Dup (7D25025-MSD1)		**Source: C705620-05**		Prepared: 04/25/2007 14:34 Analyzed: 04/26/2007 01:16						
Benzene	19	1.0	ug/L	20.0	0.12 U	95	76-116	1	14	
Trichloroethene	20	1.0	ug/L	20.0	0.23 U	102	81-118	0.7	11	
Chlorobenzene	20	1.0	ug/L	20.0	0.16 U	99	75-115	3	12	
1,1-Dichloroethene	16	1.0	ug/L	20.0	0.14 U	80	57-141	6	12	
Toluene	18	1.0	ug/L	20.0	0.15 U	89	77-120	0.5	17	
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 7D17005 - EPA 3005A										

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 7D17005 - EPA 3005A										
Blank (7D17005-BLK1)				Prepared: 04/17/2007 08:51 Analyzed: 04/19/2007 13:17						
Arsenic	2.8 J	10.0	ug/L							
Barium	0.30 J	10.0	ug/L							
Cadmium	0.50 U	1.00	ug/L							
Chromium	2.0 U	10.0	ug/L							
Lead	2.0 U	10.0	ug/L							
Selenium	2.0 U	10.0	ug/L							
Silver	2.0 U	10.0	ug/L							
LCS (7D17005-BS1)				Prepared: 04/17/2007 08:51 Analyzed: 04/19/2007 13:24						
Arsenic	1070	10.0	ug/L	1000		107	82-117			
Barium	1220	10.0	ug/L	1000		122	72-125			
Cadmium	542	1.00	ug/L	500		108	72-120			
Chromium	1070	10.0	ug/L	1000		107	78-119			
Lead	1050	10.0	ug/L	1000		105	72-121			
Selenium	1080	10.0	ug/L	1000		108	82-127			
Silver	104	10.0	ug/L	100		104	80-128			
Matrix Spike (7D17005-MS1)		**Source: C703508-01**		Prepared: 04/17/2007 08:51 Analyzed: 04/19/2007 13:55						
Arsenic	1070	10.0	ug/L	1000	2.7	107	64-126			
Barium	1330 QM-05	10.0	ug/L	1000	122	121	74-119			QM-05
Cadmium	542	1.00	ug/L	500	0.50 U	108	68-121			
Chromium	1070	10.0	ug/L	1000	2.0 U	107	73-120			
Lead	1070	10.0	ug/L	1000	2.0 U	107	68-126			
Selenium	1100	10.0	ug/L	1000	2.8	110	65-129			
Silver	106	10.0	ug/L	100	2.0 U	106	69-121			
Matrix Spike Dup (7D17005-MSD1)		**Source: C703508-01**		Prepared: 04/17/2007 08:51 Analyzed: 04/19/2007 14:02						
Arsenic	1040	10.0	ug/L	1000	2.7	104	64-126	3	12	
Barium	1280	10.0	ug/L	1000	122	116	74-119	3	11	
Cadmium	524	1.00	ug/L	500	0.50 U	105	68-121	3	12	
Chromium	1030	10.0	ug/L	1000	2.0 U	103	73-120	3	10	
Lead	1040	10.0	ug/L	1000	2.0 U	104	68-126	3	19	
Selenium	1060	10.0	ug/L	1000	2.8	106	65-129	4	10	
Silver	102	10.0	ug/L	100	2.0 U	102	69-121	3	12	
Batch 7D19005 - EPA 7470A										
Blank (7D19005-BLK1)				Prepared: 04/19/2007 08:45 Analyzed: 04/20/2007 11:29						
Mercury	0.11 U	0.20	ug/L							
LCS (7D19005-BS1)				Prepared: 04/19/2007 08:45 Analyzed: 04/20/2007 11:32						
Mercury	4.88	0.20	ug/L				87-123			
Matrix Spike (7D19005-MS1)		**Source: C703508-02**		Prepared: 04/19/2007 08:45 Analyzed: 04/20/2007 11:38						
Mercury	4.71	0.20	ug/L	5.00	0.11 U	94	63-132			
Matrix Spike Dup (7D19005-MSD1)		**Source: C703508-02**		Prepared: 04/19/2007 08:45 Analyzed: 04/20/2007 11:40						
Mercury	4.42	0.20	ug/L	5.00	0.11 U	88	63-132	6	10	
Post Spike (7D19005-PS1)		**Source: C703508-02**		Prepared: 04/19/2007 08:45 Analyzed: 04/20/2007 11:43						
Mercury	4.19 QM-08	0.20	ug/L	5.00	0.03	83	85-115			QM-08

NOTES AND DEFINITIONS

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-08	Post-digestion spike did not meet method requirements due to confirmed matrix effects (dilution test).
S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
U	Analyte included in the analysis, but not detected

LABORATORY CERTIFICATION SUMMARY

Analysis	Matrix	Cert ID	Cert Number
8260B	Water	NC	591
Arsenic Total EPA 6010B	Water	NC	591
Barium Total EPA 6010B	Water	NC	591
Cadmium Total EPA 6010B	Water	NC	591
Chromium Total EPA 6010B	Water	NC	591
Lead Total EPA 6010B	Water	NC	591
Mercury Total EPA 7470A	Water	NC	591
Selenium Total EPA 6010B	Water	NC	591
Silver Total EPA 6010B	Water	NC	591

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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1615 Passport Way
Cary, NC 27513
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Client Name: S&ME, Inc. (SM002)	Project Number: 1356-07-006
Address: P.O. Box 7668	Project Name/Desc: Owl's Den LF - Surfacewater
City/ST/Zip: Charlotte, NC 28241-7668	PO # / Billing Info: 43421
Tel: (704) 523-4726 / Fax: (704) 525-3953	Reporting Contact: Courtney Withers
Sampler(s) Name, Affiliation (Print): Tom Steelman	Billing Contact: Accounts Payable
Sampler(s) Signature:	Facility # (if required):

Requested Analyses: 8260B; Ag,As,Ba,Cd,Cr,Hg,Pb,Se

Requested Turnaround Times
Note: Rush requests subject to acceptance by the facility
✓ Standard
___ Expedited
Due __/__/__

Lab Workorder: C703509

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B	Ag,As,Ba,Cd,Cr,Hg,Pb,Se	Sample Comments
	SW-1	4/13/07	0955	G	Water	4	X	X	
	SW-2	4/13/07	1030	G	Water	4	X	X	
	SW-3	4/13/07	0925	G	Water	4	X	X	
	~~EXTRA~~				Water	4	X	X	

<-- Total # of Containers

Sample Kit Prepared By: CARY	Date/Time: 3/4/07 0900	Relinquished By:	Date/Time: 04/13/07 1200
Relinquished By:	Date/Time:	Received By:	Date/Time: 4/14/07 1000
Relinquished By:	Date/Time:	Received By:	Date/Time:
		Received By:	Date/Time:

Comments:

Cooler #'s & Temps on Receipt: 5.5°C

Condition Upon Receipt: ___ Acceptable ___ Unacceptable

Preservation: I-Ice N-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

The total number of pages in this report, including this page is 1.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

1015 Passport Way
Cary, NC 27513
(919) 677-1669 Fax (919) 677-9846

Client Name: S&ME, Inc. (SM002)	Project Number: 1356-07-006
Address: P.O. Box 7668	Project Name/Desc: Owl's Den LF - Surfacewater
City/ST/Zip: Charlotte, NC 28241-7668	PO # / Billing Info: 43421
Tel: (704) 523-4726 Fax: (704) 525-3953	Reporting Contact: Courtney Withers
Sampler(s) Name, Affiliation (Print): Tom Steelman	Billing Contact: Accounts Payable
Sampler(s) Signature:	Facility # (if required):

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C703509

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B	Ag,As,Ba,Cd,Cr,Hg,Pb,Se									Sample Comments
	SW-1	4/13/07	0955	G	Water	4	X	X									
	SW-2	4/13/07	1030	G	Water	4	X	X									
	SW-3	4/13/07	0925	G	Water	4	X	X									
	~~EXTRA~~				~~Water~~	~~4~~	~~X~~	~~X~~									

<-- Total # of Containers

Sample Kit Prepared By: CARY	Date/Time: 3/4/07 0800	Relinquished By:	Date/Time: 4/13/07 1200	Received By:	Date/Time: 4/14/07 1000
Comments		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler #'s & Temps on Receipt: 5.5°C		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515

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Thursday, April 26, 2007

S&ME, Inc. (SM002)
Attn: Courtney Withers
P.O. Box 7668
Charlotte, NC 28241-7668

RE: Project Number: 1356-07-006, Project Name/Desc: Owl's Den LF - Groundwater
ENCO Workorder: C703508

Dear Courtney Withers,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Saturday, April 14, 2007.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

This data has been produced in accordance with NELAC standards (June, 2003). This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 40.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-1 **Lab ID:** C703508-01

Sampled: 04/13/07 08:27 **Received:** 04/14/07 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/10/07	04/17/07 08:51	4/19/2007 13:48
EPA 7470A	05/11/07	04/19/07 08:45	4/20/2007 11:48
EPA 8260B	04/27/07	04/25/07 14:34	4/26/2007 03:26

Client ID: MW-2 **Lab ID:** C703508-02

Sampled: 04/13/07 08:55 **Received:** 04/14/07 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/10/07	04/17/07 08:51	4/19/2007 14:09
EPA 7470A	05/11/07	04/19/07 08:45	4/20/2007 11:35
EPA 8260B	04/27/07	04/25/07 14:34	4/26/2007 03:51

Client ID: MW-3 **Lab ID:** C703508-03

Sampled: 04/13/07 08:42 **Received:** 04/14/07 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/10/07	04/17/07 08:51	4/19/2007 14:16
EPA 7470A	05/11/07	04/19/07 08:45	4/20/2007 11:55
EPA 8260B	04/27/07	04/25/07 14:34	4/26/2007 04:18

Client ID: MW-4 **Lab ID:** C703508-04

Sampled: 04/13/07 10:10 **Received:** 04/14/07 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/10/07	04/17/07 08:51	4/19/2007 14:23
EPA 7470A	05/11/07	04/19/07 08:45	4/20/2007 11:57
EPA 8260B	04/27/07	04/25/07 14:34	4/26/2007 04:43

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Client ID: MW-5 **Lab ID:** C703508-05

Sampled: 04/13/07 09:45 **Received:** 04/14/07 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/10/07	04/17/07 08:51	4/19/2007 14:30
EPA 7470A	05/11/07	04/19/07 08:45	4/20/2007 11:59
EPA 8260B	04/27/07	04/25/07 14:34	4/26/2007 05:09

Client ID: MW-6 **Lab ID:** C703508-06

Sampled: 04/13/07 10:15 **Received:** 04/14/07 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/10/07	04/17/07 08:51	4/19/2007 14:37
EPA 7470A	05/11/07	04/19/07 08:45	4/20/2007 12:03
EPA 8260B	04/27/07	04/25/07 14:34	4/26/2007 05:35

Client ID: MW-6A **Lab ID:** C703508-07

Sampled: 04/13/07 10:20 **Received:** 04/14/07 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/10/07	04/17/07 08:51	4/19/2007 14:44
EPA 7470A	05/11/07	04/19/07 08:45	4/20/2007 12:05
EPA 8260B	04/27/07	04/25/07 14:34	4/26/2007 06:01

Client ID: MW-7 **Lab ID:** C703508-08

Sampled: 04/13/07 09:15 **Received:** 04/14/07 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/10/07	04/17/07 08:51	4/19/2007 14:51
EPA 7470A	05/11/07	04/19/07 08:45	4/20/2007 12:07
EPA 8260B	04/27/07	04/25/07 14:34	4/26/2007 06:27

Client ID: MW-7A **Lab ID:** C703508-09

Sampled: 04/13/07 09:05 **Received:** 04/14/07 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/10/07	04/17/07 08:51	4/19/2007 15:12
EPA 7470A	05/11/07	04/19/07 08:45	4/20/2007 12:09
EPA 8260B	04/27/07	04/25/07 14:34	4/26/2007 06:53

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Client ID: TRIP

Lab ID: C703508-10

Sampled: 04/13/07 00:00

Received: 04/14/07 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	04/27/07	04/25/07 14:34	4/26/2007 03:00

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SAMPLE DETECTION SUMMARY

Client ID: MW-1 **Lab ID: C703508-01**

Analyte	Results/Qual	MRL	Units	Method
1,1-Dichloropropene	5.0	1.0	ug/L	EPA 8260B
1,2,3-Trichlorobenzene	1.7	1.0	ug/L	EPA 8260B
1,2,3-Trichloropropane	1.9	1.0	ug/L	EPA 8260B
1,2,4-Trichlorobenzene	1.6	1.0	ug/L	EPA 8260B
1,2-Dibromo-3-chloropropane	1.0	1.0	ug/L	EPA 8260B
2-Butanone	4.2 J	5.0	ug/L	EPA 8260B
2-Chloroethyl Vinyl Ether	3.4	1.0	ug/L	EPA 8260B
2-Hexanone	0.41 J	5.0	ug/L	EPA 8260B
Arsenic	2.7 J	10.0	ug/L	EPA 6010B
Barium	122	10.0	ug/L	EPA 6010B
Bromoform	2.2	1.0	ug/L	EPA 8260B
Bromomethane	1.5	1.0	ug/L	EPA 8260B
Naphthalene	2.3	1.0	ug/L	EPA 8260B
Selenium	2.8 J	10.0	ug/L	EPA 6010B
Tetrachloroethene	0.83 J	1.0	ug/L	EPA 8260B

Client ID: MW-2 **Lab ID: C703508-02**

Analyte	Results/Qual	MRL	Units	Method
1,1-Dichloroethane	3.7	1.0	ug/L	EPA 8260B
1,2-Dichlorobenzene	0.68 J	1.0	ug/L	EPA 8260B
1,2-Dichloropropane	3.1	1.0	ug/L	EPA 8260B
1,3-Dichlorobenzene	0.36 J	1.0	ug/L	EPA 8260B
1,4-Dichlorobenzene	6.1	1.0	ug/L	EPA 8260B
2-Chlorotoluene	4.3	1.0	ug/L	EPA 8260B
Barium	601	10.0	ug/L	EPA 6010B
Cadmium	1.80	1.00	ug/L	EPA 6010B
Chlorobenzene	5.1	1.0	ug/L	EPA 8260B
cis-1,2-Dichloroethene	7.0	1.0	ug/L	EPA 8260B
Methyl-tert-Butyl Ether	1.3	1.0	ug/L	EPA 8260B
Vinyl chloride	0.75 J	1.0	ug/L	EPA 8260B

Client ID: MW-3 **Lab ID: C703508-03**

Analyte	Results/Qual	MRL	Units	Method
1,1-Dichloroethane	2.4	1.0	ug/L	EPA 8260B
1,2-Dichloropropane	2.0	1.0	ug/L	EPA 8260B
1,4-Dichlorobenzene	9.0	1.0	ug/L	EPA 8260B
2-Chlorotoluene	1.0	1.0	ug/L	EPA 8260B
Arsenic	2.5 J	10.0	ug/L	EPA 6010B
Barium	524	10.0	ug/L	EPA 6010B
Chlorobenzene	5.2	1.0	ug/L	EPA 8260B
cis-1,2-Dichloroethene	3.6	1.0	ug/L	EPA 8260B
Isopropylbenzene	1.5	0.20	ug/L	EPA 8260B

Tetrachloroethene	3.5	1.0	ug/L	EPA 8260B
Client ID: MW-4	**Lab ID: C703508-04**			
Analyte	**Results/Qual**	**MRL**	**Units**	**Method**
1,1-Dichloroethane	4.8	1.0	ug/L	EPA 8260B
1,2-Dichlorobenzene	4.4	1.0	ug/L	EPA 8260B
1,2-Dichloropropane	1.3	1.0	ug/L	EPA 8260B
1,3,5-Trimethylbenzene	1.4	1.0	ug/L	EPA 8260B
1,3-Dichlorobenzene	1.2	1.0	ug/L	EPA 8260B
1,4-Dichlorobenzene	15	1.0	ug/L	EPA 8260B
2-Chlorotoluene	0.55 J	1.0	ug/L	EPA 8260B
Barium	531	10.0	ug/L	EPA 6010B
Chlorobenzene	7.3	1.0	ug/L	EPA 8260B
Isopropylbenzene	0.51	0.20	ug/L	EPA 8260B
n-Butyl Benzene	0.38 J	1.0	ug/L	EPA 8260B
Client ID: MW-5	**Lab ID: C703508-05**			
Analyte	**Results/Qual**	**MRL**	**Units**	**Method**
Barium	88.6	10.0	ug/L	EPA 6010B
Client ID: MW-6	**Lab ID: C703508-06**			
Analyte	**Results/Qual**	**MRL**	**Units**	**Method**
Arsenic	2.7 J	10.0	ug/L	EPA 6010B
Barium	140	10.0	ug/L	EPA 6010B
Client ID: MW-6A	**Lab ID: C703508-07**			
Analyte	**Results/Qual**	**MRL**	**Units**	**Method**
1,2-Dichlorobenzene	2.0	1.0	ug/L	EPA 8260B
1,2-Dichloropropane	0.51 J	1.0	ug/L	EPA 8260B
1,3-Dichlorobenzene	0.43 J	1.0	ug/L	EPA 8260B
1,4-Dichlorobenzene	4.3	1.0	ug/L	EPA 8260B
Barium	455	10.0	ug/L	EPA 6010B
Client ID: MW-7	**Lab ID: C703508-08**			
Analyte	**Results/Qual**	**MRL**	**Units**	**Method**
1,1-Dichloroethane	1.2	1.0	ug/L	EPA 8260B
1,2-Dichlorobenzene	0.69 J	1.0	ug/L	EPA 8260B
1,3-Dichlorobenzene	0.59 J	1.0	ug/L	EPA 8260B
1,4-Dichlorobenzene	5.5	1.0	ug/L	EPA 8260B
2-Chlorotoluene	1.7	1.0	ug/L	EPA 8260B
Arsenic	2.6 J	10.0	ug/L	EPA 6010B
Barium	529	10.0	ug/L	EPA 6010B
Cadmium	2.20	1.00	ug/L	EPA 6010B
Chlorobenzene	2.5	1.0	ug/L	EPA 8260B
cis-1,2-Dichloroethene	3.5	1.0	ug/L	EPA 8260B
Methyl-tert-Butyl Ether	0.46 J	1.0	ug/L	EPA 8260B
Vinyl chloride	0.80 J	1.0	ug/L	EPA 8260B

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Client ID: MW-7A **Lab ID: C703508-09**

Analyte	Results/Qual	MRL	Units	Method
1,1-Dichloroethane	0.88 J	1.0	ug/L	EPA 8260B
1,2-Dichlorobenzene	0.62 J	1.0	ug/L	EPA 8260B
1,3-Dichlorobenzene	0.77 J	1.0	ug/L	EPA 8260B
1,4-Dichlorobenzene	4.5	1.0	ug/L	EPA 8260B
2-Chlorotoluene	1.2	1.0	ug/L	EPA 8260B
Arsenic	2.9 J	10.0	ug/L	EPA 6010B
Barium	377	10.0	ug/L	EPA 6010B
Chlorobenzene	2.6	1.0	ug/L	EPA 8260B
cis-1,2-Dichloroethene	3.0	1.0	ug/L	EPA 8260B

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ANALYTICAL REPORT

Sample ID:	MW-1	Project:	Owl's Den LF - Groundwater
Lab #:	C703508-01	Work Order #:	C703508
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	ug/L
1,1-Dichloroethane	75-34-3	0.090 U	0.090	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	ug/L
1,1-Dichloropropene	563-58-6	**5.0**	0.13	1.0	ug/L
1,2,3-Trichlorobenzene	87-61-6	**1.7**	0.28	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	**1.9**	0.32	1.0	ug/L
1,2,4-Trichlorobenzene	120-82-1	**1.6**	0.14	1.0	ug/L
1,2,4-Trimethylbenzene	95-63-6	0.096 U	0.096	1.0	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	**1.0**	0.19	1.0	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	ug/L
1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	1.0	ug/L
1,3-Dichlorobenzene	541-73-1	0.15 U	0.15	1.0	ug/L
1,3-Dichloropropane	142-28-9	0.18 U	0.18	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	1.0	ug/L
2,2-Dichloropropane	594-20-7	0.16 U	0.16	1.0	ug/L
2-Butanone	78-93-3	**4.2** J	0.56	5.0	ug/L
2-Chloroethyl Vinyl Ether	110-75-8	**3.4**	0.79	1.0	ug/L
2-Chlorotoluene	95-49-8	0.13 U	0.13	1.0	ug/L
2-Hexanone	591-78-6	**0.41** J	0.24	5.0	ug/L
4-Chlorotoluene	106-43-4	0.20 U	0.20	1.0	ug/L
4-Isopropyltoluene	99-87-6	0.074 U	0.074	1.0	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	ug/L
Bromobenzene	108-86-1	0.23 U	0.23	1.0	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	ug/L
Bromoform	75-25-2	**2.2**	0.36	1.0	ug/L
Bromomethane	74-83-9	**1.5**	0.21	1.0	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	ug/L
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-1	Project:	Owl's Den LF - Groundwater
Lab #:	C703508-01	Work Order #:	C703508
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14 U	0.14	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	ug/L
Dichlorodifluoromethane	75-71-8	0.14 U	0.14	1.0	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	ug/L
Hexachlorobutadiene	87-68-3	0.33 U	0.33	1.0	ug/L
Isopropylbenzene	98-82-8	0.10 U	0.10	0.20	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	2.0	ug/L
Methyl-tert-Butyl Ether	1634-04-4	0.10 U	0.10	1.0	ug/L
Naphthalene	91-20-3	**2.3**	0.25	1.0	ug/L
n-Butyl Benzene	104-51-8	0.11 U	0.11	1.0	ug/L
n-Propyl Benzene	103-65-1	0.13 U	0.13	1.0	ug/L
sec-Butylbenzene	135-98-8	0.082 U	0.082	1.0	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	ug/L
tert-Butylbenzene	98-06-6	0.16 U	0.16	1.0	ug/L
Tetrachloroethene	127-18-4	**0.83** J	0.25	1.0	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	ug/L

Surrogate Recovery		Result		Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	63	S-GC	50.0	127 %	67-125
Dibromofluoromethane	1868-53-7	44		50.0	88 %	69-111
Toluene-d8	2037-26-5	52		50.0	104 %	85-120

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ANALYTICAL REPORT

Sample ID: MW-1
Lab #: C703508-01

Project: Owl's Den LF - Groundwater
Work Order #: C703508
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	**2.7**	J	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Barium	7440-39-3	**122**		0.20	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Cadmium	7440-43-9	0.50	U	0.50	1.00	ug/L	EPA 6010B	EPA 3005A	7D17005
Chromium	7440-47-3	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Lead	7439-92-1	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Mercury	7439-97-6	0.11	U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	7D19005
Selenium	7782-49-2	**2.8**	J	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Silver	7440-22-4	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005

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ANALYTICAL REPORT

Sample ID:	MW-2	Project:	Owl's Den LF - Groundwater
Lab #:	C703508-02	Work Order #:	C703508
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	ug/L
1,1-Dichloroethane	75-34-3	**3.7**	0.090	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	ug/L
1,1-Dichloropropene	563-58-6	0.13 U	0.13	1.0	ug/L
1,2,3-Trichlorobenzene	87-61-6	0.28 U	0.28	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	ug/L
1,2,4-Trichlorobenzene	120-82-1	0.14 U	0.14	1.0	ug/L
1,2,4-Trimethylbenzene	95-63-6	0.096 U	0.096	1.0	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	**0.68** J	0.17	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	ug/L
1,2-Dichloropropane	78-87-5	**3.1**	0.18	1.0	ug/L
1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	1.0	ug/L
1,3-Dichlorobenzene	541-73-1	**0.36** J	0.15	1.0	ug/L
1,3-Dichloropropane	142-28-9	0.18 U	0.18	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	**6.1**	0.15	1.0	ug/L
2,2-Dichloropropane	594-20-7	0.16 U	0.16	1.0	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	ug/L
2-Chloroethyl Vinyl Ether	110-75-8	0.79 U	0.79	1.0	ug/L
2-Chlorotoluene	95-49-8	**4.3**	0.13	1.0	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	ug/L
4-Chlorotoluene	106-43-4	0.20 U	0.20	1.0	ug/L
4-Isopropyltoluene	99-87-6	0.074 U	0.074	1.0	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	ug/L
Bromobenzene	108-86-1	0.23 U	0.23	1.0	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-2	Project:	Owl's Den LF - Groundwater
Lab #:	C703508-02	Work Order #:	C703508
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	ug/L
Chlorobenzene	108-90-7	**5.1**	0.16	1.0	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	**7.0**	0.14	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	ug/L
Dichlorodifluoromethane	75-71-8	0.14 U	0.14	1.0	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	ug/L
Hexachlorobutadiene	87-68-3	0.33 U	0.33	1.0	ug/L
Isopropylbenzene	98-82-8	0.10 U	0.10	0.20	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	2.0	ug/L
Methyl-tert-Butyl Ether	1634-04-4	**1.3**	0.10	1.0	ug/L
Naphthalene	91-20-3	0.25 U	0.25	1.0	ug/L
n-Butyl Benzene	104-51-8	0.11 U	0.11	1.0	ug/L
n-Propyl Benzene	103-65-1	0.13 U	0.13	1.0	ug/L
sec-Butylbenzene	135-98-8	0.082 U	0.082	1.0	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	ug/L
tert-Butylbenzene	98-06-6	0.16 U	0.16	1.0	ug/L
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	ug/L
Vinyl chloride	75-01-4	**0.75** J	0.15	1.0	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	ug/L

Surrogate Recovery		Result		Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	65	S-GC	50.0	130 %	67-125
Dibromofluoromethane	1868-53-7	43		50.0	87 %	69-111
Toluene-d8	2037-26-5	54		50.0	108 %	85-120

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ANALYTICAL REPORT

Sample ID: MW-2
Lab #: C703508-02

Project: Owl's Den LF - Groundwater
Work Order #: C703508
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Barium	7440-39-3	**601**		0.20	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Cadmium	7440-43-9	**1.80**		0.50	1.00	ug/L	EPA 6010B	EPA 3005A	7D17005
Chromium	7440-47-3	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Lead	7439-92-1	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Mercury	7439-97-6	0.11	U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	7D19005
Selenium	7782-49-2	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Silver	7440-22-4	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005

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ANALYTICAL REPORT

Sample ID:	MW-3	Project:	Owl's Den LF - Groundwater
Lab #:	C703508-03	Work Order #:	C703508
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	ug/L
1,1-Dichloroethane	75-34-3	**2.4**	0.090	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	ug/L
1,1-Dichloropropene	563-58-6	0.13 U	0.13	1.0	ug/L
1,2,3-Trichlorobenzene	87-61-6	0.28 U	0.28	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	ug/L
1,2,4-Trichlorobenzene	120-82-1	0.14 U	0.14	1.0	ug/L
1,2,4-Trimethylbenzene	95-63-6	0.096 U	0.096	1.0	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	ug/L
1,2-Dichloropropane	78-87-5	**2.0**	0.18	1.0	ug/L
1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	1.0	ug/L
1,3-Dichlorobenzene	541-73-1	0.15 U	0.15	1.0	ug/L
1,3-Dichloropropane	142-28-9	0.18 U	0.18	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	**9.0**	0.15	1.0	ug/L
2,2-Dichloropropane	594-20-7	0.16 U	0.16	1.0	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	ug/L
2-Chloroethyl Vinyl Ether	110-75-8	0.79 U	0.79	1.0	ug/L
2-Chlorotoluene	95-49-8	**1.0**	0.13	1.0	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	ug/L
4-Chlorotoluene	106-43-4	0.20 U	0.20	1.0	ug/L
4-Isopropyltoluene	99-87-6	0.074 U	0.074	1.0	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	ug/L
Bromobenzene	108-86-1	0.23 U	0.23	1.0	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-3	Project:	Owl's Den LF - Groundwater
Lab #:	C703508-03	Work Order #:	C703508
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	ug/L
Chlorobenzene	108-90-7	**5.2**	0.16	1.0	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	**3.6**	0.14	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	ug/L
Dichlorodifluoromethane	75-71-8	0.14 U	0.14	1.0	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	ug/L
Hexachlorobutadiene	87-68-3	0.33 U	0.33	1.0	ug/L
Isopropylbenzene	98-82-8	**1.5**	0.10	0.20	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	2.0	ug/L
Methyl-tert-Butyl Ether	1634-04-4	0.10 U	0.10	1.0	ug/L
Naphthalene	91-20-3	0.25 U	0.25	1.0	ug/L
n-Butyl Benzene	104-51-8	0.11 U	0.11	1.0	ug/L
n-Propyl Benzene	103-65-1	0.13 U	0.13	1.0	ug/L
sec-Butylbenzene	135-98-8	0.082 U	0.082	1.0	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	ug/L
tert-Butylbenzene	98-06-6	0.16 U	0.16	1.0	ug/L
Tetrachloroethene	127-18-4	**3.5**	0.25	1.0	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	ug/L

Surrogate Recovery		Result		Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	65	S-GC	50.0	130 %	67-125
Dibromofluoromethane	1868-53-7	46		50.0	92 %	69-111
Toluene-d8	2037-26-5	55		50.0	109 %	85-120

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ANALYTICAL REPORT

Sample ID: MW-3
Lab #: C703508-03

Project: Owl's Den LF - Groundwater
Work Order #: C703508
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	**2.5**	J	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Barium	7440-39-3	**524**		0.20	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Cadmium	7440-43-9	0.50	U	0.50	1.00	ug/L	EPA 6010B	EPA 3005A	7D17005
Chromium	7440-47-3	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Lead	7439-92-1	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Mercury	7439-97-6	0.11	U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	7D19005
Selenium	7782-49-2	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Silver	7440-22-4	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005

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ANALYTICAL REPORT

Sample ID:	MW-4	Project:	Owl's Den LF - Groundwater
Lab #:	C703508-04	Work Order #:	C703508
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	ug/L
1,1-Dichloroethane	75-34-3	**4.8**	0.090	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	ug/L
1,1-Dichloropropene	563-58-6	0.13 U	0.13	1.0	ug/L
1,2,3-Trichlorobenzene	87-61-6	0.28 U	0.28	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	ug/L
1,2,4-Trichlorobenzene	120-82-1	0.14 U	0.14	1.0	ug/L
1,2,4-Trimethylbenzene	95-63-6	0.096 U	0.096	1.0	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	**4.4**	0.17	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	ug/L
1,2-Dichloropropane	78-87-5	**1.3**	0.18	1.0	ug/L
1,3,5-Trimethylbenzene	108-67-8	**1.4**	0.11	1.0	ug/L
1,3-Dichlorobenzene	541-73-1	**1.2**	0.15	1.0	ug/L
1,3-Dichloropropane	142-28-9	0.18 U	0.18	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	**15**	0.15	1.0	ug/L
2,2-Dichloropropane	594-20-7	0.16 U	0.16	1.0	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	ug/L
2-Chloroethyl Vinyl Ether	110-75-8	0.79 U	0.79	1.0	ug/L
2-Chlorotoluene	95-49-8	**0.55** J	0.13	1.0	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	ug/L
4-Chlorotoluene	106-43-4	0.20 U	0.20	1.0	ug/L
4-Isopropyltoluene	99-87-6	0.074 U	0.074	1.0	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	ug/L
Bromobenzene	108-86-1	0.23 U	0.23	1.0	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-4	Project:	Owl's Den LF - Groundwater
Lab #:	C703508-04	Work Order #:	C703508
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	ug/L
Chlorobenzene	108-90-7	**7.3**	0.16	1.0	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14 U	0.14	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	ug/L
Dichlorodifluoromethane	75-71-8	0.14 U	0.14	1.0	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	ug/L
Hexachlorobutadiene	87-68-3	0.33 U	0.33	1.0	ug/L
Isopropylbenzene	98-82-8	**0.51**	0.10	0.20	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	2.0	ug/L
Methyl-tert-Butyl Ether	1634-04-4	0.10 U	0.10	1.0	ug/L
Naphthalene	91-20-3	0.25 U	0.25	1.0	ug/L
n-Butyl Benzene	104-51-8	**0.38 J**	0.11	1.0	ug/L
n-Propyl Benzene	103-65-1	0.13 U	0.13	1.0	ug/L
sec-Butylbenzene	135-98-8	0.082 U	0.082	1.0	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	ug/L
tert-Butylbenzene	98-06-6	0.16 U	0.16	1.0	ug/L
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	ug/L

Surrogate Recovery		Result		Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	65	S-GC	50.0	130 %	67-125
Dibromofluoromethane	1868-53-7	45		50.0	90 %	69-111
Toluene-d8	2037-26-5	55		50.0	109 %	85-120

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ANALYTICAL REPORT

Sample ID: MW-4
Lab #: C703508-04

Project: Owl's Den LF - Groundwater
Work Order #: C703508
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Barium	7440-39-3	**531**		0.20	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Cadmium	7440-43-9	0.50	U	0.50	1.00	ug/L	EPA 6010B	EPA 3005A	7D17005
Chromium	7440-47-3	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Lead	7439-92-1	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Mercury	7439-97-6	0.11	U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	7D19005
Selenium	7782-49-2	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Silver	7440-22-4	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005

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ANALYTICAL REPORT

Sample ID:	MW-5	Project:	Owl's Den LF - Groundwater
Lab #:	C703508-05	Work Order #:	C703508
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	ug/L
1,1-Dichloroethane	75-34-3	0.090 U	0.090	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	ug/L
1,1-Dichloropropene	563-58-6	0.13 U	0.13	1.0	ug/L
1,2,3-Trichlorobenzene	87-61-6	0.28 U	0.28	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	ug/L
1,2,4-Trichlorobenzene	120-82-1	0.14 U	0.14	1.0	ug/L
1,2,4-Trimethylbenzene	95-63-6	0.096 U	0.096	1.0	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	ug/L
1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	1.0	ug/L
1,3-Dichlorobenzene	541-73-1	0.15 U	0.15	1.0	ug/L
1,3-Dichloropropane	142-28-9	0.18 U	0.18	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	1.0	ug/L
2,2-Dichloropropane	594-20-7	0.16 U	0.16	1.0	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	ug/L
2-Chloroethyl Vinyl Ether	110-75-8	0.79 U	0.79	1.0	ug/L
2-Chlorotoluene	95-49-8	0.13 U	0.13	1.0	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	ug/L
4-Chlorotoluene	106-43-4	0.20 U	0.20	1.0	ug/L
4-Isopropyltoluene	99-87-6	0.074 U	0.074	1.0	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	ug/L
Bromobenzene	108-86-1	0.23 U	0.23	1.0	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-5	Project:	Owl's Den LF - Groundwater
Lab #:	C703508-05	Work Order #:	C703508
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14 U	0.14	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	ug/L
Dichlorodifluoromethane	75-71-8	0.14 U	0.14	1.0	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	ug/L
Hexachlorobutadiene	87-68-3	0.33 U	0.33	1.0	ug/L
Isopropylbenzene	98-82-8	0.10 U	0.10	0.20	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	2.0	ug/L
Methyl-tert-Butyl Ether	1634-04-4	0.10 U	0.10	1.0	ug/L
Naphthalene	91-20-3	0.25 U	0.25	1.0	ug/L
n-Butyl Benzene	104-51-8	0.11 U	0.11	1.0	ug/L
n-Propyl Benzene	103-65-1	0.13 U	0.13	1.0	ug/L
sec-Butylbenzene	135-98-8	0.082 U	0.082	1.0	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	ug/L
tert-Butylbenzene	98-06-6	0.16 U	0.16	1.0	ug/L
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	ug/L

Surrogate Recovery		Result		Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	63	S-GC	50.0	127 %	67-125
Dibromofluoromethane	1868-53-7	42		50.0	84 %	69-111
Toluene-d8	2037-26-5	51		50.0	102 %	85-120

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ANALYTICAL REPORT

Sample ID: MW-5
Lab #: C703508-05

Project: Owl's Den LF - Groundwater
Work Order #: C703508
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Barium	7440-39-3	**88.6**		0.20	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Cadmium	7440-43-9	0.50	U	0.50	1.00	ug/L	EPA 6010B	EPA 3005A	7D17005
Chromium	7440-47-3	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Lead	7439-92-1	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Mercury	7439-97-6	0.11	U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	7D19005
Selenium	7782-49-2	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Silver	7440-22-4	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005

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ANALYTICAL REPORT

Sample ID:	MW-6	Project:	Owl's Den LF - Groundwater
Lab #:	C703508-06	Work Order #:	C703508
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	ug/L
1,1-Dichloroethane	75-34-3	0.090 U	0.090	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	ug/L
1,1-Dichloropropene	563-58-6	0.13 U	0.13	1.0	ug/L
1,2,3-Trichlorobenzene	87-61-6	0.28 U	0.28	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	ug/L
1,2,4-Trichlorobenzene	120-82-1	0.14 U	0.14	1.0	ug/L
1,2,4-Trimethylbenzene	95-63-6	0.096 U	0.096	1.0	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	ug/L
1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	1.0	ug/L
1,3-Dichlorobenzene	541-73-1	0.15 U	0.15	1.0	ug/L
1,3-Dichloropropane	142-28-9	0.18 U	0.18	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	1.0	ug/L
2,2-Dichloropropane	594-20-7	0.16 U	0.16	1.0	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	ug/L
2-Chloroethyl Vinyl Ether	110-75-8	0.79 U	0.79	1.0	ug/L
2-Chlorotoluene	95-49-8	0.13 U	0.13	1.0	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	ug/L
4-Chlorotoluene	106-43-4	0.20 U	0.20	1.0	ug/L
4-Isopropyltoluene	99-87-6	0.074 U	0.074	1.0	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	ug/L
Bromobenzene	108-86-1	0.23 U	0.23	1.0	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-6	Project:	Owl's Den LF - Groundwater
Lab #:	C703508-06	Work Order #:	C703508
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14 U	0.14	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	ug/L
Dichlorodifluoromethane	75-71-8	0.14 U	0.14	1.0	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	ug/L
Hexachlorobutadiene	87-68-3	0.33 U	0.33	1.0	ug/L
Isopropylbenzene	98-82-8	0.10 U	0.10	0.20	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	2.0	ug/L
Methyl-tert-Butyl Ether	1634-04-4	0.10 U	0.10	1.0	ug/L
Naphthalene	91-20-3	0.25 U	0.25	1.0	ug/L
n-Butyl Benzene	104-51-8	0.11 U	0.11	1.0	ug/L
n-Propyl Benzene	103-65-1	0.13 U	0.13	1.0	ug/L
sec-Butylbenzene	135-98-8	0.082 U	0.082	1.0	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	ug/L
tert-Butylbenzene	98-06-6	0.16 U	0.16	1.0	ug/L
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	ug/L

Surrogate Recovery		Result		Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	63	S-GC	50.0	126 %	67-125
Dibromofluoromethane	1868-53-7	43		50.0	85 %	69-111
Toluene-d8	2037-26-5	51		50.0	103 %	85-120

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ANALYTICAL REPORT

Sample ID: MW-6
Lab #: C703508-06

Project: Owl's Den LF - Groundwater
Work Order #: C703508
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	**2.7**	J	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Barium	7440-39-3	**140**		0.20	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Cadmium	7440-43-9	0.50	U	0.50	1.00	ug/L	EPA 6010B	EPA 3005A	7D17005
Chromium	7440-47-3	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Lead	7439-92-1	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Mercury	7439-97-6	0.11	U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	7D19005
Selenium	7782-49-2	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Silver	7440-22-4	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005

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ANALYTICAL REPORT

Sample ID:	MW-6A	Project:	Owl's Den LF - Groundwater
Lab #:	C703508-07	Work Order #:	C703508
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	ug/L
1,1-Dichloroethane	75-34-3	0.090 U	0.090	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	ug/L
1,1-Dichloropropene	563-58-6	0.13 U	0.13	1.0	ug/L
1,2,3-Trichlorobenzene	87-61-6	0.28 U	0.28	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	ug/L
1,2,4-Trichlorobenzene	120-82-1	0.14 U	0.14	1.0	ug/L
1,2,4-Trimethylbenzene	95-63-6	0.096 U	0.096	1.0	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	**2.0**	0.17	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	ug/L
1,2-Dichloropropane	78-87-5	**0.51 J**	0.18	1.0	ug/L
1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	1.0	ug/L
1,3-Dichlorobenzene	541-73-1	**0.43 J**	0.15	1.0	ug/L
1,3-Dichloropropane	142-28-9	0.18 U	0.18	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	**4.3**	0.15	1.0	ug/L
2,2-Dichloropropane	594-20-7	0.16 U	0.16	1.0	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	ug/L
2-Chloroethyl Vinyl Ether	110-75-8	0.79 U	0.79	1.0	ug/L
2-Chlorotoluene	95-49-8	0.13 U	0.13	1.0	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	ug/L
4-Chlorotoluene	106-43-4	0.20 U	0.20	1.0	ug/L
4-Isopropyltoluene	99-87-6	0.074 U	0.074	1.0	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	ug/L
Bromobenzene	108-86-1	0.23 U	0.23	1.0	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-6A	Project:	Owl's Den LF - Groundwater
Lab #:	C703508-07	Work Order #:	C703508
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14 U	0.14	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	ug/L
Dichlorodifluoromethane	75-71-8	0.14 U	0.14	1.0	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	ug/L
Hexachlorobutadiene	87-68-3	0.33 U	0.33	1.0	ug/L
Isopropylbenzene	98-82-8	0.10 U	0.10	0.20	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	2.0	ug/L
Methyl-tert-Butyl Ether	1634-04-4	0.10 U	0.10	1.0	ug/L
Naphthalene	91-20-3	0.25 U	0.25	1.0	ug/L
n-Butyl Benzene	104-51-8	0.11 U	0.11	1.0	ug/L
n-Propyl Benzene	103-65-1	0.13 U	0.13	1.0	ug/L
sec-Butylbenzene	135-98-8	0.082 U	0.082	1.0	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	ug/L
tert-Butylbenzene	98-06-6	0.16 U	0.16	1.0	ug/L
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	ug/L

Surrogate Recovery		Result		Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	65	S-GC	50.0	130 %	67-125
Dibromofluoromethane	1868-53-7	43		50.0	87 %	69-111
Toluene-d8	2037-26-5	54		50.0	108 %	85-120

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ANALYTICAL REPORT

Sample ID: MW-6A
Lab #: C703508-07

Project: Owl's Den LF - Groundwater
Work Order #: C703508
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Barium	7440-39-3	**455**		0.20	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Cadmium	7440-43-9	0.50	U	0.50	1.00	ug/L	EPA 6010B	EPA 3005A	7D17005
Chromium	7440-47-3	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Lead	7439-92-1	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Mercury	7439-97-6	0.11	U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	7D19005
Selenium	7782-49-2	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Silver	7440-22-4	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005

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ANALYTICAL REPORT

Sample ID:	MW-7	Project:	Owl's Den LF - Groundwater
Lab #:	C703508-08	Work Order #:	C703508
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	ug/L
1,1-Dichloroethane	75-34-3	**1.2**	0.090	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	ug/L
1,1-Dichloropropene	563-58-6	0.13 U	0.13	1.0	ug/L
1,2,3-Trichlorobenzene	87-61-6	0.28 U	0.28	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	ug/L
1,2,4-Trichlorobenzene	120-82-1	0.14 U	0.14	1.0	ug/L
1,2,4-Trimethylbenzene	95-63-6	0.096 U	0.096	1.0	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	**0.69 J**	0.17	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	ug/L
1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	1.0	ug/L
1,3-Dichlorobenzene	541-73-1	**0.59 J**	0.15	1.0	ug/L
1,3-Dichloropropane	142-28-9	0.18 U	0.18	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	**5.5**	0.15	1.0	ug/L
2,2-Dichloropropane	594-20-7	0.16 U	0.16	1.0	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	ug/L
2-Chloroethyl Vinyl Ether	110-75-8	0.79 U	0.79	1.0	ug/L
2-Chlorotoluene	95-49-8	**1.7**	0.13	1.0	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	ug/L
4-Chlorotoluene	106-43-4	0.20 U	0.20	1.0	ug/L
4-Isopropyltoluene	99-87-6	0.074 U	0.074	1.0	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	ug/L
Bromobenzene	108-86-1	0.23 U	0.23	1.0	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-7	Project:	Owl's Den LF - Groundwater
Lab #:	C703508-08	Work Order #:	C703508
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	ug/L
Chlorobenzene	108-90-7	**2.5**	0.16	1.0	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	**3.5**	0.14	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	ug/L
Dichlorodifluoromethane	75-71-8	0.14 U	0.14	1.0	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	ug/L
Hexachlorobutadiene	87-68-3	0.33 U	0.33	1.0	ug/L
Isopropylbenzene	98-82-8	0.10 U	0.10	0.20	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	2.0	ug/L
Methyl-tert-Butyl Ether	1634-04-4	**0.46 J**	0.10	1.0	ug/L
Naphthalene	91-20-3	0.25 U	0.25	1.0	ug/L
n-Butyl Benzene	104-51-8	0.11 U	0.11	1.0	ug/L
n-Propyl Benzene	103-65-1	0.13 U	0.13	1.0	ug/L
sec-Butylbenzene	135-98-8	0.082 U	0.082	1.0	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	ug/L
tert-Butylbenzene	98-06-6	0.16 U	0.16	1.0	ug/L
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	ug/L
Vinyl chloride	75-01-4	**0.80 J**	0.15	1.0	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	62	50.0	124 %	67-125
Dibromofluoromethane	1868-53-7	42	50.0	85 %	69-111
Toluene-d8	2037-26-5	54	50.0	108 %	85-120

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ANALYTICAL REPORT

Sample ID: MW-7
Lab #: C703508-08

Project: Owl's Den LF - Groundwater
Work Order #: C703508
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	**2.6**	J	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Barium	7440-39-3	**529**		0.20	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Cadmium	7440-43-9	**2.20**		0.50	1.00	ug/L	EPA 6010B	EPA 3005A	7D17005
Chromium	7440-47-3	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Lead	7439-92-1	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Mercury	7439-97-6	0.11	U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	7D19005
Selenium	7782-49-2	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Silver	7440-22-4	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005

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ANALYTICAL REPORT

Sample ID:	MW-7A	Project:	Owl's Den LF - Groundwater
Lab #:	C703508-09	Work Order #:	C703508
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	ug/L
1,1-Dichloroethane	75-34-3	**0.88 J**	0.090	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	ug/L
1,1-Dichloropropene	563-58-6	0.13 U	0.13	1.0	ug/L
1,2,3-Trichlorobenzene	87-61-6	0.28 U	0.28	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	ug/L
1,2,4-Trichlorobenzene	120-82-1	0.14 U	0.14	1.0	ug/L
1,2,4-Trimethylbenzene	95-63-6	0.096 U	0.096	1.0	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	**0.62 J**	0.17	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	ug/L
1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	1.0	ug/L
1,3-Dichlorobenzene	541-73-1	**0.77 J**	0.15	1.0	ug/L
1,3-Dichloropropane	142-28-9	0.18 U	0.18	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	**4.5**	0.15	1.0	ug/L
2,2-Dichloropropane	594-20-7	0.16 U	0.16	1.0	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	ug/L
2-Chloroethyl Vinyl Ether	110-75-8	0.79 U	0.79	1.0	ug/L
2-Chlorotoluene	95-49-8	**1.2**	0.13	1.0	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	ug/L
4-Chlorotoluene	106-43-4	0.20 U	0.20	1.0	ug/L
4-Isopropyltoluene	99-87-6	0.074 U	0.074	1.0	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	ug/L
Bromobenzene	108-86-1	0.23 U	0.23	1.0	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-7A	Project:	Owl's Den LF - Groundwater
Lab #:	C703508-09	Work Order #:	C703508
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	ug/L
Chlorobenzene	108-90-7	**2.6**	0.16	1.0	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	**3.0**	0.14	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	ug/L
Dichlorodifluoromethane	75-71-8	0.14 U	0.14	1.0	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	ug/L
Hexachlorobutadiene	87-68-3	0.33 U	0.33	1.0	ug/L
Isopropylbenzene	98-82-8	0.10 U	0.10	0.20	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	2.0	ug/L
Methyl-tert-Butyl Ether	1634-04-4	0.10 U	0.10	1.0	ug/L
Naphthalene	91-20-3	0.25 U	0.25	1.0	ug/L
n-Butyl Benzene	104-51-8	0.11 U	0.11	1.0	ug/L
n-Propyl Benzene	103-65-1	0.13 U	0.13	1.0	ug/L
sec-Butylbenzene	135-98-8	0.082 U	0.082	1.0	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	ug/L
tert-Butylbenzene	98-06-6	0.16 U	0.16	1.0	ug/L
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	61	50.0	121 %	67-125
Dibromofluoromethane	1868-53-7	42	50.0	84 %	69-111
Toluene-d8	2037-26-5	50	50.0	100 %	85-120

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ANALYTICAL REPORT

Sample ID: MW-7A
Lab #: C703508-09

Project: Owl's Den LF - Groundwater
Work Order #: C703508
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		MDL	MRL	Units	Analysis Method	Prep Method	Analytical Batch
Arsenic	7440-38-2	**2.9**	J	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Barium	7440-39-3	**377**		0.20	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Cadmium	7440-43-9	0.50	U	0.50	1.00	ug/L	EPA 6010B	EPA 3005A	7D17005
Chromium	7440-47-3	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Lead	7439-92-1	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Mercury	7439-97-6	0.11	U	0.11	0.20	ug/L	EPA 7470A	EPA 7470A	7D19005
Selenium	7782-49-2	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005
Silver	7440-22-4	2.0	U	2.0	10.0	ug/L	EPA 6010B	EPA 3005A	7D17005

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ANALYTICAL REPORT

Sample ID:	TRIP	Project:	Owl's Den LF - Groundwater
Lab #:	C703508-10	Work Order #:	C703508
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
1,1,1,2-Tetrachloroethane	630-20-6	0.16 U	0.16	1.0	ug/L
1,1,1-Trichloroethane	71-55-6	0.24 U	0.24	1.0	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	1.0	ug/L
1,1,2-Trichloroethane	79-00-5	0.24 U	0.24	1.0	ug/L
1,1-Dichloroethane	75-34-3	0.090 U	0.090	1.0	ug/L
1,1-Dichloroethene	75-35-4	0.14 U	0.14	1.0	ug/L
1,1-Dichloropropene	563-58-6	0.13 U	0.13	1.0	ug/L
1,2,3-Trichlorobenzene	87-61-6	0.28 U	0.28	1.0	ug/L
1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	1.0	ug/L
1,2,4-Trichlorobenzene	120-82-1	0.14 U	0.14	1.0	ug/L
1,2,4-Trimethylbenzene	95-63-6	0.096 U	0.096	1.0	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	0.19 U	0.19	1.0	ug/L
1,2-Dibromoethane	106-93-4	0.19 U	0.19	1.0	ug/L
1,2-Dichlorobenzene	95-50-1	0.17 U	0.17	1.0	ug/L
1,2-Dichloroethane	107-06-2	0.36 U	0.36	1.0	ug/L
1,2-Dichloropropane	78-87-5	0.18 U	0.18	1.0	ug/L
1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	1.0	ug/L
1,3-Dichlorobenzene	541-73-1	0.15 U	0.15	1.0	ug/L
1,3-Dichloropropane	142-28-9	0.18 U	0.18	1.0	ug/L
1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	1.0	ug/L
2,2-Dichloropropane	594-20-7	0.16 U	0.16	1.0	ug/L
2-Butanone	78-93-3	0.56 U	0.56	5.0	ug/L
2-Chloroethyl Vinyl Ether	110-75-8	0.79 U	0.79	1.0	ug/L
2-Chlorotoluene	95-49-8	0.13 U	0.13	1.0	ug/L
2-Hexanone	591-78-6	0.24 U	0.24	5.0	ug/L
4-Chlorotoluene	106-43-4	0.20 U	0.20	1.0	ug/L
4-Isopropyltoluene	99-87-6	0.074 U	0.074	1.0	ug/L
4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	5.0	ug/L
Acetone	67-64-1	0.90 U	0.90	5.0	ug/L
Benzene	71-43-2	0.12 U	0.12	1.0	ug/L
Bromobenzene	108-86-1	0.23 U	0.23	1.0	ug/L
Bromochloromethane	74-97-5	0.19 U	0.19	1.0	ug/L
Bromodichloromethane	75-27-4	0.19 U	0.19	0.40	ug/L
Bromoform	75-25-2	0.36 U	0.36	1.0	ug/L
Bromomethane	74-83-9	0.21 U	0.21	1.0	ug/L
Carbon disulfide	75-15-0	0.12 U	0.12	5.0	ug/L

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ANALYTICAL REPORT

Sample ID:	TRIP	Project:	Owl's Den LF - Groundwater
Lab #:	C703508-10	Work Order #:	C703508
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	04/26/07 By: ref	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	7D25025		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MDL	MRL	Units
Carbon tetrachloride	56-23-5	0.38 U	0.38	1.0	ug/L
Chlorobenzene	108-90-7	0.16 U	0.16	1.0	ug/L
Chloroethane	75-00-3	0.40 U	0.40	1.0	ug/L
Chloroform	67-66-3	0.16 U	0.16	1.0	ug/L
Chloromethane	74-87-3	0.18 U	0.18	1.0	ug/L
cis-1,2-Dichloroethene	156-59-2	0.14 U	0.14	1.0	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	0.20	ug/L
Dibromochloromethane	124-48-1	0.18 U	0.18	1.0	ug/L
Dibromomethane	74-95-3	0.14 U	0.14	1.0	ug/L
Dichlorodifluoromethane	75-71-8	0.14 U	0.14	1.0	ug/L
Ethylbenzene	100-41-4	0.17 U	0.17	1.0	ug/L
Hexachlorobutadiene	87-68-3	0.33 U	0.33	1.0	ug/L
Isopropylbenzene	98-82-8	0.10 U	0.10	0.20	ug/L
Methylene chloride	75-09-2	0.088 U	0.088	2.0	ug/L
Methyl-tert-Butyl Ether	1634-04-4	0.10 U	0.10	1.0	ug/L
Naphthalene	91-20-3	0.25 U	0.25	1.0	ug/L
n-Butyl Benzene	104-51-8	0.11 U	0.11	1.0	ug/L
n-Propyl Benzene	103-65-1	0.13 U	0.13	1.0	ug/L
sec-Butylbenzene	135-98-8	0.082 U	0.082	1.0	ug/L
Styrene	100-42-5	0.12 U	0.12	1.0	ug/L
tert-Butylbenzene	98-06-6	0.16 U	0.16	1.0	ug/L
Tetrachloroethene	127-18-4	0.25 U	0.25	1.0	ug/L
Toluene	108-88-3	0.15 U	0.15	1.0	ug/L
trans-1,2-Dichloroethene	156-60-5	0.10 U	0.10	1.0	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	0.20	ug/L
Trichloroethene	79-01-6	0.23 U	0.23	1.0	ug/L
Trichlorofluoromethane	75-69-4	0.16 U	0.16	1.0	ug/L
Vinyl chloride	75-01-4	0.15 U	0.15	1.0	ug/L
Xylenes (Total)	1330-20-7	0.21 U	0.21	1.0	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	62	50.0	124 %	67-125
Dibromofluoromethane	1868-53-7	43	50.0	87 %	69-111
Toluene-d8	2037-26-5	53	50.0	105 %	85-120

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes

Volatile Organic Compounds by GCMS - Quality Control

Batch 7D25025 - EPA 5030B_MS

Blank (7D25025-BLK1) Prepared: 04/25/2007 14:34 Analyzed: 04/25/2007 23:58

Acetone	0.90 U	5.0	ug/L
Methyl-tert-Butyl Ether	0.10 U	1.0	ug/L
Benzene	0.12 U	1.0	ug/L
2-Butanone	0.56 U	5.0	ug/L
2-Hexanone	0.24 U	5.0	ug/L
Isopropylbenzene	0.10 U	0.20	ug/L
Bromobenzene	0.23 U	1.0	ug/L
Tetrachloroethene	0.25 U	1.0	ug/L
4-Methyl-2-pentanone	0.36 U	5.0	ug/L
n-Propyl Benzene	0.13 U	1.0	ug/L
Bromochloromethane	0.19 U	1.0	ug/L
Trichloroethene	0.23 U	1.0	ug/L
n-Butyl Benzene	0.11 U	1.0	ug/L
Bromodichloromethane	0.19 U	0.40	ug/L
Bromoform	0.36 U	1.0	ug/L
Bromomethane	0.21 U	1.0	ug/L
sec-Butylbenzene	0.082 U	1.0	ug/L
tert-Butylbenzene	0.16 U	1.0	ug/L
Carbon disulfide	0.12 U	5.0	ug/L
Carbon tetrachloride	0.38 U	1.0	ug/L
Chlorobenzene	0.16 U	1.0	ug/L
Chloroethane	0.40 U	1.0	ug/L
2-Chloroethyl Vinyl Ether	0.79 U	1.0	ug/L
Chloroform	0.16 U	1.0	ug/L
Chloromethane	0.18 U	1.0	ug/L
2-Chlorotoluene	0.13 U	1.0	ug/L
4-Chlorotoluene	0.20 U	1.0	ug/L
Dibromochloromethane	0.18 U	1.0	ug/L
1,2-Dibromo-3-chloropropane	0.19 U	1.0	ug/L
1,2-Dibromoethane	0.19 U	1.0	ug/L
Dibromomethane	0.14 U	1.0	ug/L
1,2-Dichlorobenzene	0.17 U	1.0	ug/L
1,3-Dichlorobenzene	0.15 U	1.0	ug/L
1,4-Dichlorobenzene	0.15 U	1.0	ug/L
Dichlorodifluoromethane	0.14 U	1.0	ug/L
1,1-Dichloroethane	0.090 U	1.0	ug/L
1,2-Dichloroethane	0.36 U	1.0	ug/L
1,1-Dichloroethene	0.14 U	1.0	ug/L
cis-1,2-Dichloroethene	0.14 U	1.0	ug/L
trans-1,2-Dichloroethene	0.10 U	1.0	ug/L
1,2-Dichloropropane	0.18 U	1.0	ug/L
1,3-Dichloropropane	0.18 U	1.0	ug/L
2,2-Dichloropropane	0.16 U	1.0	ug/L
1,1-Dichloropropene	0.13 U	1.0	ug/L
cis-1,3-Dichloropropene	0.16 U	0.20	ug/L

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Volatile Organic Compounds by GCMS - Quality Control										
Batch 7D25025 - EPA 5030B_MS										
Blank (7D25025-BLK1) Continued				Prepared: 04/25/2007 14:34 Analyzed: 04/25/2007 23:58						
trans-1,3-Dichloropropene	0.18 U	0.20	ug/L							
Ethylbenzene	0.17 U	1.0	ug/L							
Hexachlorobutadiene	0.33 U	1.0	ug/L							
4-Isopropyltoluene	0.074 U	1.0	ug/L							
Methylene chloride	0.088 U	2.0	ug/L							
Naphthalene	0.25 U	1.0	ug/L							
Styrene	0.12 U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	0.16 U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.27 U	1.0	ug/L							
Toluene	0.15 U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.28 U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14 U	1.0	ug/L							
1,1,1-Trichloroethane	0.24 U	1.0	ug/L							
1,1,2-Trichloroethane	0.24 U	1.0	ug/L							
Trichlorofluoromethane	0.16 U	1.0	ug/L							
1,2,3-Trichloropropane	0.32 U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.096 U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.11 U	1.0	ug/L							
Vinyl chloride	0.15 U	1.0	ug/L							
Xylenes (Total)	0.21 U	1.0	ug/L							
Surrogate: Toluene-d8	*54*		*ug/L*	*50.0*		*109*	*85-120*			
Surrogate: 4-Bromofluorobenzene	*67*		*ug/L*	*50.0*		*134*	*67-125*			S-GC
Surrogate: Dibromofluoromethane	*46*		*ug/L*	*50.0*		*91*	*69-111*			
LCS (7D25025-BS1)				Prepared: 04/25/2007 14:34 Analyzed: 04/26/2007 00:24						
Benzene	19	1.0	ug/L	20.0		95	76-116			
Trichloroethene	21	1.0	ug/L	20.0		103	81-118			
Chlorobenzene	20	1.0	ug/L	20.0		99	75-115			
1,1-Dichloroethene	17	1.0	ug/L	20.0		84	57-141			
Toluene	18	1.0	ug/L	20.0		88	77-120			
Matrix Spike (7D25025-MS1)		**Source: C705620-05**		Prepared: 04/25/2007 14:34 Analyzed: 04/26/2007 00:50						
Benzene	19	1.0	ug/L	20.0	0.12 U	94	76-116			
Trichloroethene	21	1.0	ug/L	20.0	0.23 U	103	81-118			
Chlorobenzene	20	1.0	ug/L	20.0	0.16 U	102	75-115			
1,1-Dichloroethene	17	1.0	ug/L	20.0	0.14 U	85	57-141			
Toluene	18	1.0	ug/L	20.0	0.15 U	89	77-120			
Matrix Spike Dup (7D25025-MSD1)		**Source: C705620-05**		Prepared: 04/25/2007 14:34 Analyzed: 04/26/2007 01:16						
Benzene	19	1.0	ug/L	20.0	0.12 U	95	76-116	1	14	
Trichloroethene	20	1.0	ug/L	20.0	0.23 U	102	81-118	0.7	11	
Chlorobenzene	20	1.0	ug/L	20.0	0.16 U	99	75-115	3	12	
1,1-Dichloroethene	16	1.0	ug/L	20.0	0.14 U	80	57-141	6	12	
Toluene	18	1.0	ug/L	20.0	0.15 U	89	77-120	0.5	17	
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 7D17005 - EPA 3005A										

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 7D17005 - EPA 3005A										
Blank (7D17005-BLK1)				Prepared: 04/17/2007 08:51 Analyzed: 04/19/2007 13:17						
Arsenic	2.8 J	10.0	ug/L							
Barium	0.30 J	10.0	ug/L							
Cadmium	0.50 U	1.00	ug/L							
Chromium	2.0 U	10.0	ug/L							
Lead	2.0 U	10.0	ug/L							
Selenium	2.0 U	10.0	ug/L							
Silver	2.0 U	10.0	ug/L							
LCS (7D17005-BS1)				Prepared: 04/17/2007 08:51 Analyzed: 04/19/2007 13:24						
Arsenic	1070	10.0	ug/L	1000		107	82-117			
Barium	1220	10.0	ug/L	1000		122	72-125			
Cadmium	542	1.00	ug/L	500		108	72-120			
Chromium	1070	10.0	ug/L	1000		107	78-119			
Lead	1050	10.0	ug/L	1000		105	72-121			
Selenium	1080	10.0	ug/L	1000		108	82-127			
Silver	104	10.0	ug/L	100		104	80-128			
Matrix Spike (7D17005-MS1)		**Source: C703508-01**		Prepared: 04/17/2007 08:51 Analyzed: 04/19/2007 13:55						
Arsenic	1070	10.0	ug/L	1000	2.7	107	64-126			
Barium	1330 QM-05	10.0	ug/L	1000	122	121	74-119			QM-05
Cadmium	542	1.00	ug/L	500	0.50 U	108	68-121			
Chromium	1070	10.0	ug/L	1000	2.0 U	107	73-120			
Lead	1070	10.0	ug/L	1000	2.0 U	107	68-126			
Selenium	1100	10.0	ug/L	1000	2.8	110	65-129			
Silver	106	10.0	ug/L	100	2.0 U	106	69-121			
Matrix Spike Dup (7D17005-MSD1)		**Source: C703508-01**		Prepared: 04/17/2007 08:51 Analyzed: 04/19/2007 14:02						
Arsenic	1040	10.0	ug/L	1000	2.7	104	64-126	3	12	
Barium	1280	10.0	ug/L	1000	122	116	74-119	3	11	
Cadmium	524	1.00	ug/L	500	0.50 U	105	68-121	3	12	
Chromium	1030	10.0	ug/L	1000	2.0 U	103	73-120	3	10	
Lead	1040	10.0	ug/L	1000	2.0 U	104	68-126	3	19	
Selenium	1060	10.0	ug/L	1000	2.8	106	65-129	4	10	
Silver	102	10.0	ug/L	100	2.0 U	102	69-121	3	12	
Batch 7D19005 - EPA 7470A										
Blank (7D19005-BLK1)				Prepared: 04/19/2007 08:45 Analyzed: 04/20/2007 11:29						
Mercury	0.11 U	0.20	ug/L							
LCS (7D19005-BS1)				Prepared: 04/19/2007 08:45 Analyzed: 04/20/2007 11:32						
Mercury	4.88	0.20	ug/L				87-123			
Matrix Spike (7D19005-MS1)		**Source: C703508-02**		Prepared: 04/19/2007 08:45 Analyzed: 04/20/2007 11:38						
Mercury	4.71	0.20	ug/L	5.00	0.11 U	94	63-132			
Matrix Spike Dup (7D19005-MSD1)		**Source: C703508-02**		Prepared: 04/19/2007 08:45 Analyzed: 04/20/2007 11:40						
Mercury	4.42	0.20	ug/L	5.00	0.11 U	88	63-132	6	10	
Post Spike (7D19005-PS1)		**Source: C703508-02**		Prepared: 04/19/2007 08:45 Analyzed: 04/20/2007 11:43						
Mercury	4.19 QM-08	0.20	ug/L	5.00	0.03	83	85-115			QM-08

NOTES AND DEFINITIONS

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-08	Post-digestion spike did not meet method requirements due to confirmed matrix effects (dilution test).
S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
U	Analyte included in the analysis, but not detected

LABORATORY CERTIFICATION SUMMARY

Analysis	Matrix	Cert ID	Cert Number
8260B	Water	NC	591
Arsenic Total EPA 6010B	Water	NC	591
Barium Total EPA 6010B	Water	NC	591
Cadmium Total EPA 6010B	Water	NC	591
Chromium Total EPA 6010B	Water	NC	591
Lead Total EPA 6010B	Water	NC	591
Mercury Total EPA 7470A	Water	NC	591
Selenium Total EPA 6010B	Water	NC	591
Silver Total EPA 6010B	Water	NC	591

The total number of pages in this report, including this page is 1.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-6314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6065
(904) 296-3007 Fax (904) 296-6210

1915 Passport Way
Cary, NC 27513
(919) 677-1669 Fax (919) 677-9846

Client Name: S&ME, Inc. (SM002)	Project Number: 1356-07-006
Address: P.O. Box 7668	Project Name/Desc: Owl's Den LF - Groundwater
City/ST/Zip: Charlotte, NC 28241-7668	PO # / Billing Info: 43421
Tel: (704) 523-4726 Fax: (704) 525-3953	Reporting Contact: Courtney Withers
Sampler(s) Name, Affiliation (Print): Tom Steelman	Billing Contact: Accounts Payable
Sampler(s) Signature:	Facility # (if required):

Requested Analyses: 8260B; Ag,As,Ba,Cd,Cr,Hg,Pb,Se

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due __/__/__

Lab Workorder: C703508

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B	Ag,As,Ba,Cd,Cr,Hg,Pb,Se									Sample Comments
	MW-1	4/13/07	0827	G	Water	4	X	X									
	MW-2	4/13/07	0855	G	Water	4	X	X									
	MW-3	4/13/07	0842	G	Water	4	X	X									
	MWI-4	4/13/07	1010	G	Water	4	X	X									
	MWI-5	4/13/07	0945	G	Water	4	X	X									
	MWI-6	4/13/07	1015	G	Water	4	X	X									
	MWI-6A	4/13/07	1020	G	Water	4	X	X									
	MWI-7	4/13/07	0915	G	Water	4	X	X									
	MWI-7A	4/13/07	0905	G	Water	4	X	X									
	TRIP	4/13/07	1100	G	Water	3	X										
	~~EXTRA~~				Water	4	X	X									

<- Total # of Containers

Sample Kit Prepared By: CAM	Date/Time: 3/21/07 0800	Relinquished By:	Date/Time: 3/12/07 1200	Received By:	Date/Time: 4/14/07 1040
Comments:		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler #'s & Temps on Receipt: 0.5°C		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in acceptance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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Client Name: S&ME, Inc. (SM002)	Project Number: 1356-07-006
Address: P.O. Box 7668	Project Name/Desc: Owl's Den LF - Groundwater
City/ST/Zip: Charlotte, NC 28241-7668	PO # / Billing Info: 43421
Tel: (704) 523-4726 Fax: (704) 525-3953	Reporting Contact: Courtney Withers
Sampler(s) Name, Affiliation (Print): Tom Steelman	Billing Contact: Accounts Payable
Sampler(s) Signature:	Facility # (if required):

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due __/__/__

Lab Workorder: C703508

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B	Ag,As,Ba,Cd,Cr,Hg,Pb,Se									Sample Comments
	MW-1	4/13/07	0827	G	Water	4	X	X									
	MW-2	4/13/07	0855	G	Water	4	X	X									
	MW-3	4/13/07	0842	G	Water	4	X	X									
	MW-4	4/13/07	1010	G	Water	4	X	X									
	MW-5	4/13/07	0945	G	Water	4	X	X									
	MW-6	4/13/07	1015	G	Water	4	X	X									
	MW-6A	4/13/07	1020	G	Water	4	X	X									
	MW-7	4/13/07	0915	G	Water	4	X	X									
	MW-7A	4/13/07	0905	G	Water	4	X	X									
	TRIP	4/13/07	1100	G	Water	3	X										
	~~EXTRA~~				Water	4	X	X									

<-- Total # of Containers

Sample Kit Prepared By: CARM	Date/Time: 3/21/07 0800	Relinquished By:	Date/Time: 04/12/07 1200	Received By:	Date/Time: 4/14/07 1000
Comments:		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler #'s & Temps on Receipt: 0.5°C		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist