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REMEDIAL ACTION QUARTERLY MONITORING REPORT

FOURTH QUARTER – 2004 (6 of 120)

SKINNER LANDFILL SITE BUTLER COUNTY WEST CHESTER, OHIO

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A Tyco International Ltd. Company

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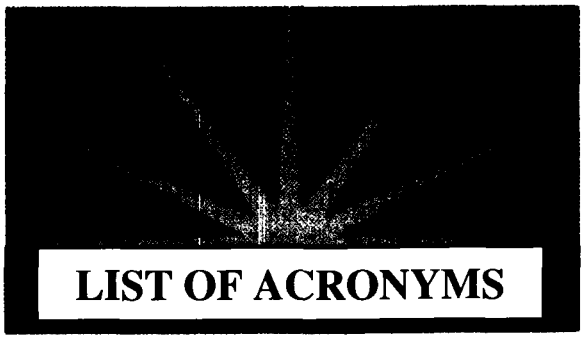

LIST OF ACRONYMS

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AMP	Air Monitoring Plan
AOC	Administrative Order on Consent
ARAR	Applicable or Relevant and Appropriate Requirements
BMR	Baseline Monitor Report
BCDES	Butler County Department of Environmental Services
bgs	Below Ground Surface
BZ	Breathing Zone
CD&D	Construction Debris and Demolition Waste
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CGI	Combustible Gas Indicator
CHSD	Corporate Health and Safety Director
CIP	Construction Implementation Plan
CLP	Contract Laboratory Program
cm/sec	Centimeters Per Second
CO	Carbon Monoxide
CP	Contingency Plan
CQA	Construction Quality Assurance
CQAC	Construction Quality Assurance Consultant
CRZ	Contamination Reduction Zone
CRQL	Contract Required Quantitation Limit
CSDI	Contaminated Soils Design Investigation
CY	Cubic Yard
CZ	Control Zone
DSW	Division of Surface Water (OEPA)
DSR	Division Safety Representative
EPA	Environmental Protection Agency
EZ	Exclusion Zone
FID	Flame Ionization Detector
FML	Flexible Membrane Liner (low density polyethylene)
FSP	Field Sampling Plan
FTB	Film Tearing Bond
ft	Feet
ft/sec	Feet Per Second
GCL	Geosynthetic Clay Layer
GCAL	Gulf Coast Analytical Laboratories Inc.
GIS	Groundwater Interceptor System
gpd	Gallons Per Day
gpm	Gallons Per Minute
GWDI	Groundwater Design Investigation
HAP	Hazardous Air Pollutant
HASP	Health and Safety Plan
HDPE	High-Density Polyethylene
HSM	Health and Safety Manager
IDLH	Immediately Dangerous to Life or Health

IRM	Interim Remedial Measures
kg/d	Kilograms Per Day
lb/day	Pounds Per Day
LEL	Lower Explosion Limit
LF	Lineal Feet
LLDPE	Linear Low-Density Polyethylene
μ	Micron
μg/l	Microgram per Liter
MSL	Mean Sea Level
NIOSH	National Institute for Occupational Safety and Health
NO_x	Oxides of Nitrogen
NWI	National Wetland Inventory
O_3	Ozone
OAC	Ohio Administrative Code
ODNR	Ohio Department of Natural Resources
OEPA	Ohio Environmental Protection Agency
ORC	Ohio Revised Code
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
PID	Photoionization Detector
PLC	Programmable Logic Controller
PM-10	Particulate Matter less than 10 microns
PRP	Potentially Responsible Party
PPE	Personal Protective Equipment
psi	Pounds Per Square Inch
PQL	Practical Quantitation Limit
QAPP	Quality Assurance Project Plan
QA	Quality Assurance
QC	Quality Control
RCRA	Resource Conservation and Recovery Act
RA	Remedial Action
RD	Remedial Design
RHSS	Regional Health & Safety Specialist
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
RPM	Remedial Project Manager (USEPA)
RPO	Resident Project Observer
SI	Site Inspection
SF	Square Feet
SLWG	Skinner Landfill Work Group
SO_2	Sulfur Dioxide
SOP	Standard Operating Procedure
SOW	Statement of Work
SPCC	Spill Prevention Control and Counter Measure Plan
SSO	Site Safety Officer
SVE	Soil Vapor Extraction
SVOC	Semi-Volatile Organic Compound
SZ	Support Zone

TAL	Target Analyte List
TCL	Target Compound List
TDH	Total Dynamic Head
TLV	Threshold Limit Values
TSS	Total Suspended Solids
TWA	Time Weighted Average
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Services
USGS	United States Geological Survey
VOC	Volatile Organic Compound
yr	Year
WBGT	Wet Bulb Globe Temperature
WZ	Work Zone

1.0 INTRODUCTION

1.1 GENERAL INFORMATION

This quarterly monitoring report was prepared for the Skinner Landfill Superfund Site located in West Chester, Butler County, Ohio in accordance with the Operation and Maintenance - Long-Term Performance Plan (O&M-LTP Plan) dated August 2003. The O&M-LTP Plan was prepared to meet the requirements of the Record of Decision (ROD) dated June 4, 1993, the Statement of Work (SOW) dated April 6, 1994, the 100% Final Remedial Design dated June 21, 1996 and the Consent Decree dated April 7, 2001.

The remedial action (RA) post-construction O&M monitoring period began with the third quarter of 2003 and extends for a period of 30 years. This report documents the results of groundwater and surface water monitoring conducted during the fourth quarter of 2004, which is the 6th of 120 sampling events to be conducted during the 30-year monitoring period.

1.2 SITE LOCATION AND DESCRIPTION

Skinner Landfill is located approximately 15 miles north of Cincinnati, Ohio near West Chester, Butler County, Ohio in Township 3, Section 22, Range 2. The site is located along Cincinnati-Dayton Road, as shown in Figure 1. The site is bordered on the south by the East Fork of Mill Creek, on the north by wooded land, on the east by a Norfolk Southern Railway Company right-of-way, and on the west by a gravel driveway.

The site is located in a highly dissected area that slopes from a till-mantled-bedrock upland to a broad, flat-bottomed valley that is occupied by the main branch of Mill Creek. Elevations on the site range from a high of nearly 800 feet above mean sea level (MSL) in the northeast, to a low of 645 feet above MSL near the confluence of Skinner Creek and East Fork of Mill Creek. Both Skinner Creek and the East Fork of Mill Creek are small, intermittent shallow streams. Both of these streams flow to the southwest from the site toward the main branch of Mill Creek.

In general, the site is underlain by relatively thin glacial drift over inter-bedded shale and limestone of Ordovician age. The composition of the glacial drift ranges from intermixed silt, sand and gravel, to silty sandy clays with a thickness ranging from zero to over forty feet. The sand and gravel deposits comprise the hills and ridges and are encountered near the surface of the central portion of the site. The silts and clays usually occur as lenses in the sands and gravel or directly overlie bedrock.

1.3 SITE HISTORY AND BACKGROUND

The property was originally developed as a sand and gravel mining operation and was subsequently used as a landfill from 1934 to 1990. According to USEPA studies, materials deposited at the site include demolition debris, household refuse and a wide variety of chemical wastes. The waste disposal areas include a now buried former waste lagoon near the center of the site and a landfill. According to USEPA studies, the buried lagoon was used for the disposal of paint wastes, ink wastes, creosote, pesticides, and other chemical wastes. The landfill area, located north and northeast of the buried lagoon, received predominantly demolition and landscaping debris.

In 1976, the Ohio EPA (OEPA) initiated an investigation of the site. In 1982, the site was placed on the National Priority List by the USEPA based on information obtained during a limited investigation of the

site. A Phase II Remedial Investigation was conducted from 1989 to 1991 and involved further investigation of groundwater, surface water, soils and sediments. Both a Baseline Risk Assessment and Feasibility Study (FS) were completed in 1992.

The Phase II Remedial Investigation revealed that the most contaminated media at the site is the soil in the buried waste lagoon. Migration of the landfill constituents has been limited, and the Phase II Remedial Investigation concluded that there had been no off-site migration of landfill constituents via groundwater flow.

In the Record of Decision (ROD), dated June 4, 1993, the USEPA selected a remedy for the site consisting of multi-media capping of the landfill and the buried waste lagoon, and collection and treatment of the groundwater. The ROD also required an investigation to determine the feasibility for soil vapor extraction (SVE) in the granular soil adjacent to the buried lagoon.

The Remedial Design (RD) Investigation performed in 1994 was implemented to collect data required to assess the feasibility of the SVE and to design the multi-media cap and the groundwater extraction/treatment systems. The Remedial Design was submitted to USEPA on June 21,1996 outlining the cover design and groundwater interception system design. Based on the RD investigation, the installation of an SVE system was determined to be unfeasible.

Construction of a groundwater interception system (GIS) and engineered landfill cover system began in April 2001 and was substantially completed in September 2001. The USEPA conducted the pre-final construction inspection on September 27, 2001, the final construction inspection on March 27, 2003 and the second 5-Year Review on January 22, 2004.

2.0 SAMPLING METHODS

This quarterly monitoring event was conducted in general accordance with the following documents shown with the date of the USEPA-approved final version:

- Operation and Maintenance - Long-Term Performance Plan (O&M-LTP Plan) dated August 2003, and
- RA Health and Safety Plan, Final February 2001.

There were no deviations from these work plans.

3.0 RESULTS

3.1 GROUNDWATER LEVELS

The groundwater elevation data obtained from the monitor wells, piezometers and selected gas probes is presented on Table 1 with the corresponding potentiometric surface map provided in Appendix A. The groundwater flow direction and gradient remained relatively unchanged when compared to the previous quarterly monitoring report period. Groundwater flow direction is to the south-southeast directly toward the East Fork of Mill Creek with an average hydraulic gradient of 0.09 ft/ft. The groundwater gradient has remained relatively unchanged when compared to the average hydraulic gradient of 0.13 ft/ft documented in the Remedial Action Baseline Monitoring Report dated March 2005.

3.2 GROUNDWATER-WASTE MONITORING

Results of the piezometer groundwater levels used to monitor the groundwater levels relative to bottom of waste are provided on Table 2. Based on measured water levels, groundwater has been lowered below the waste elevation during this monitor event at piezometers P-11 (piezometer was dry) and P-12, which are the two piezometers furthest from Duck Pond. The depth to water measurements in Piezometers P-9 and P-11 were recorded with a smaller diameter water level indicator, as opposed to a groundwater interface probe, due to a pinching of the well casing that reduced the diameter of the piezometer. A depth to water measurement could not be recorded from piezometer P-10 due to an obstruction or possible pinching of the well casing.

3.3 GROUNDWATER ANALYTICAL RESULTS

A summary of target compound list (TCL) and target analyte list (TAL) parameter concentrations encountered above the contract required detection limit and revised modified trigger level is provided on Table 3. A summary of the laboratory analytical results have been presented on a per well basis in Appendix B to assist in identifying temporal detection patterns. A report of each data set reduction, validation and assessment procedure conducted on an analytical-set basis in accordance with the O&M-LTP Plan quality assurance project plan (QAPP) is included in Appendix C.

In general, target compound list volatiles, semi-volatiles, pesticides and PCBs were not detected in groundwater above the CRQL.

Four of the 16 TAL parameters, with a revised modified trigger level, were detected above the CRQL. Detections of arsenic (present in all 12 groundwater sample locations), iron (present in six groundwater monitoring wells), selenium (present in five groundwater monitoring wells) and barium (present in two groundwater monitoring wells) were detected above the CRQL.

Two of the constituents detected above the CRQL exhibited concentrations that exceeded the revised modified trigger levels. Groundwater monitoring wells GW-06R, GW-07R, GW-59, GW-60, GW-61, GW-63 and GW-64 contained arsenic concentrations above the revised modified trigger level. Groundwater monitoring well GW-07R contained a selenium concentration in excess of the revised modified trigger level.

Arsenic and selenium were not detected in the previous quarter at these sampling locations. Future sampling data will be evaluated for reoccurring trends.

3.4 SURFACE WATER ANALYTICAL RESULTS

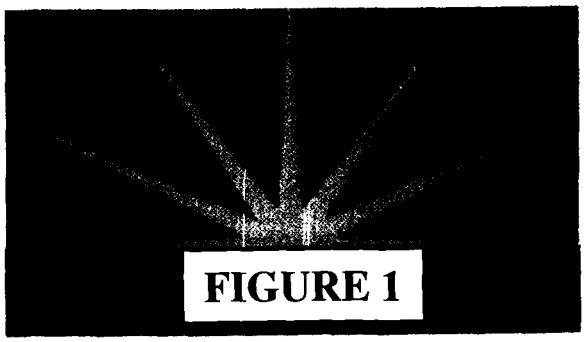
Surface water analyzed consisted of sampling surface runoff from the site and surface water directly from the East Fork of Mill Creek. A summary of TCL and TAL parameter concentrations encountered above the contract required detection limit and revised modified trigger level is provided on Table 4. A summary of surface water laboratory analytical results is presented in Appendix B. The summary tables are presented on a sample location basis. The validated laboratory analytical data is provided in Appendix C.

In general, target compound list volatiles, semi-volatiles, pesticides and PCBs were not detected in surface water above the CRQL.

Three of the 16 TAL parameters were detected and consist of arsenic, selenium and zinc. Surface water sample location SW-52 and surface water discharge locations SWD-2 and SWD-3 contained arsenic concentrations above the revised modified trigger level. Arsenic was not detected in the previous quarter at these sampling locations.

FIGURES

FIGURES



SITE VICINITY MAP

FIGURE 1

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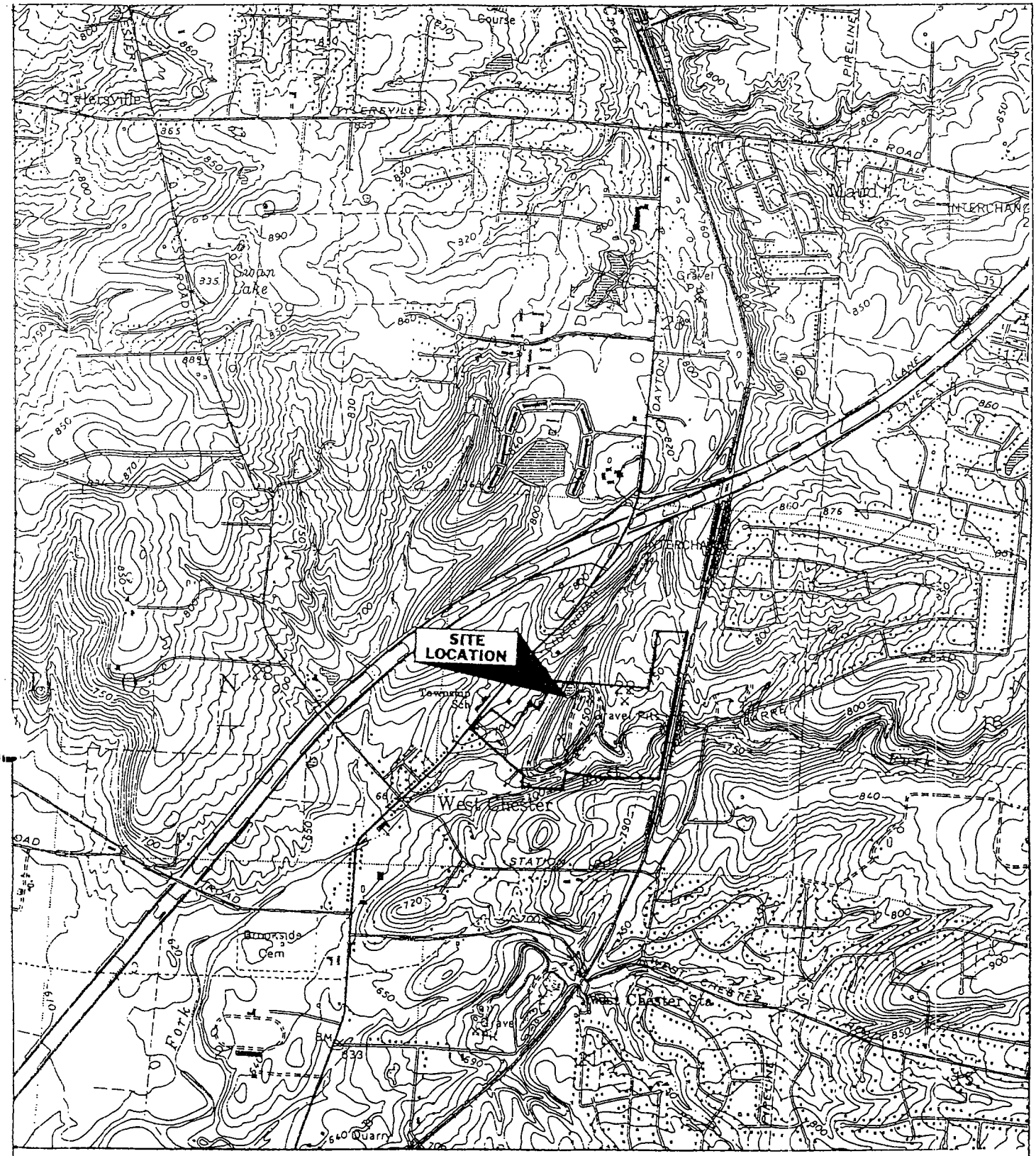


Base taken from USGS Glendale, Ohio
7.5' Topographic Quadrangle, photorevised 1987

0 2000
FEET

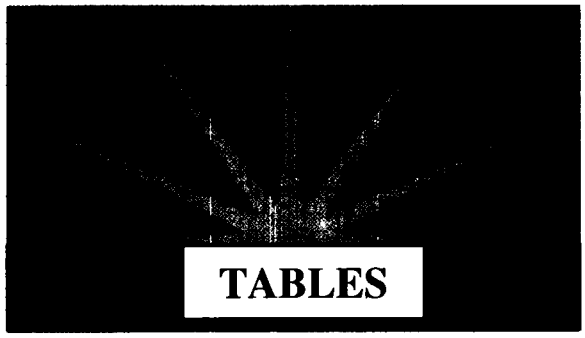
EARTH TECH

N

SKINNER LANDFILL

SITE VICINITY MAP

BUTLER COUNTY, OHIO



TABLES

TABLE 1

GROUNDWATER ELEVATIONS

TABLE 1

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TABLE 1

Groundwater Elevation Summary

Skinner Landfill
West Chester, Ohio

Well Type	Location	Well Use	Ground Surface Elevation (MSL-feet)	Top of Casing Elevation (MSL-feet)	December 2004 Depth to Water (feet from top of casing)	December 2004 Groundwater Elevation (MSL-feet)
Piezometers	P-1	G	685.42	687.65	9.91	677.74
	P-2	G	688.54	690.42	13.75	676.67
	P-3R	G	691.83	693.69	25.12	668.57
	P-4	G	700.32	702.63	7.88	694.75
	P-5	G	708.20	710.65	14.82	695.83
	P-6	G	707.45	710.59	11.18	699.41
	P-7	G	719.08	721.83	Dry	Dry
	P-8	G	747.70	749.91	30.31	719.60
	P-9	G	760.68	763.90	22.03	741.87
	P-10	G	761.34	764.16	--	--
	P-11	G	760.34	762.76	Dry	Dry
	P-12	G	743.50	746.17	40.03	706.14
Groundwater Monitoring Wells	GW-06R	S	683.89	685.91	9.18	676.73
	GW-07R	S	683.46	683.06	6.15	676.91
	GW-24	S	693.32	695.21	18.55	676.66
	GW-26	S	696.61	698.28	29.45	668.83
	GW-30	S	675.63	677.62	9.74	667.88
	GW-58	S	684.03	686.53	13.66	672.87
	GW-59	S	684.35	687.38	6.43	680.95
	GW-60	S	689.12	692.38	5.66	686.72
	GW-61	S	687.38	690.86	13.21	677.65
	GW-62A	S	690.19	692.38	26.86	665.52
	GW-62B	S	690.57	693.13	11.61	681.52
	GW-63	S	698.87	702.50	10.05	692.45
	GW-64	S	700.45	703.88	12.15	691.73
	GW-65	S	703.83	706.88	16.25	690.63
	GW-66	G	686.82	689.41	6.08	683.33
Gas Probes	GP-6	G	772.18	774.65	13.07	761.58
	GP-7	G	749.83	752.65	8.40	744.25

Notes:
MSL - Mean Sea Level
G - Gauging
S - Sampling and Gauging
-- No Gauging Data Available (well constricted)

TABLE 2

GROUNDWATER/WASTE ELEVATIONS

TABLE 2

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TABLE 2

Groundwater-Waste Monitoring Summary

Skinner Landfill
West Chester, Ohio

Piezometer	Depth to Waste (feet)	Bottom of Waste Elevation (MSL-feet)	Baseline Water Elevation (June 2001) (feet)	Water Elevation (March 2004) (feet)	Water Elevation (May 2004) (feet)	Water Elevation (September 2004) (feet)	Water Elevation (December 2004) (feet)
P-9	25	737	**745.00**	743.15	NM	NM	741.87
P-10	30	734	**744.50**	738.06	NM	-	-
P-11	17	745	**744.30**	735.36	736.05	733.66	Dry
P-12	35	707	**713.50**	705.52	705.67	705.06	706.14

Notes:

Waste elevations determined during piezometer installation on June 28 and 29, 2001.

Shaded cells indicate water level elevations below the elevation of waste.

- *No gauging data available (well constricted).*

NM - Not Measured (wasp nest in standpipe)

TABLE 3

GROUNDWATER RESULTS SUMMARY

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TABLE 3

Table 3

Groundwater Summary

Skinner Landfill
West Chester, Ohio
Fourth Quarter 2004

Sample ID	VOCs	SVOCs	Dissolved Metals**	Pesticides/PCBs
GW-06R	-	-	**arsenic,** *iron*	-
GW-07R	-	-	**arsenic, selenium**	-
GW-24	-	-	*arsenic, iron*	-
GW-26	-	-	*arsenic, barium, selenium*	-
GW-30	-	-	*arsenic, barium, iron*	-
GW-58	-	-	*arsenic, iron, selenium*	-
GW-59	-	-	**arsenic**	-
GW-60	-	-	**arsenic,** *selenium*	-
GW-61	-	-	**arsenic,** *iron*	-
GW-62A	-	-	*arsenic*	-
GW-62B	-	-	*	*
GW-63	-	-	**arsenic,** *iron, selenium*	-
GW-64	-	-	**arsenic**	-
GW-65	-	*	*	*

- all parameters below report limits
italic - above Contract Required Quantitation Levels (CRQL's)
bold - above trigger level
* - Insufficient sample volume.
** - Dissolved metals for analytes that have a corresponding trigger level.

TABLE 4

SURFACE WATER RESULTS SUMMARY

Table 4

Surface Water Summary

Skinner Landfill
West Chester, Ohio
Fourth Quarter 2004

Sample ID	VOCs	SVOCs	Dissolved Metals**	Pesticides/PCBs
SW-50	-	-	*arsenic, selenium*	-
SW-51	-	-	*arsenic*	-
SW-52	-	-	**arsenic**	-
SWD-1	*	*	*	*
SWD-2	-	-	**arsenic**	-
SWD-3	-	-	**arsenic**, *zinc*	-

- all parameters below report limits
italic - above Contract Required Quantitation Levels (CRQL's)
bold - above trigger level
* - Insufficient sample volume.
** - Dissolved metals for analytes that have a corresponding trigger level.

APPENDIX A

POTENTIONMETRIC SURFACE MAP

SDMS US EPA Region V

Imagery Insert Form

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APPENDIX A – POTENTIOMETRIC SURFACE MAP

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APPENDIX B

SUMMARY OF ANALYTICAL RESULTS

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-06R

	Sampling Event (All Results Expressed in Units of µg/l)							
	Quarterly Results							
Compound	**August-03**	**November-03**	**March-04**	**May-04**	**September-04**	**December-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]								
Aluminum	—	25.8	25.8	85.2	55.3	55.3		200
Antimony	3.7	3.7	3.7	7.7	10.6	4.1	60	60
Arsenic	2.9	2.9	2.9	5.4	5.4	26.7 J	20	10
Barium	309 J	294	266	45.4 J	329	179	1,000	200
Beryllium	0.1	0.1	0.1	0.2	0.2	0.2	5	5
Cadmium	0.2	0.2	0.2	0.5	0.3	0.3	5	5
Calcium	—	189,000	189,000	176,000	205,000	193,000		5,000
Chromium	2.6	0.8	1.2	1.5 UJ	3.7	1.5	11	10
Cobalt	—	0.4	0.4	1.6	0.6	2.9		50
Copper	1.3	1.7	1.2	1.2	1.2	1.2	25	25
Iron	14.1	14.1	22.0	1,360 J	9.1	1,210	7,000	100
Lead	1.5	1.5	1.5	2.4 UJ	2.4	2.4	4.2	3
Magnesium	—	30,500	30,000	33,100	32,100	31,300		5,000
Manganese	—	77.0	69.5 J	481 J	124	363		15
Mercury	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	1.7	1.8	1.7	3.4 J	2.2	2.5	96	40
Potassium	—	2,400	2,060	7,180 J	3,340 J	2,510 J		5,000
Selenium	4.4	4.4 R	4.4 UJ	4.4 UJ	4.4 UJ	4.4	8.5	5
Silver	0.4	0.4	0.4	0.9	2.5	0.9	10	10
Sodium	—	21,500	20,700	29,000 J	20,900 J	22,000		5,000
Thallium	2.6	2.6 UJ	2.6	6.3	6.3	8.1	40	10
Vanadium	—	0.8	1.6	1.1	3.5	6.7		50
Zinc	13.5	0.6 UJ	0.6 UJ	0.7 UJ	0.7	0.7	86	20
Inorganics - Metals and Cyanide (Total)								
Aluminum	—	17,000	9,900	4,950 J	37,200 J	2,890 J		
Antimony	3.7	3.7	5.5	8.2	3.9	3.9		
Arsenic	13.2	20.5	12.4	5.4	5.4 R	34.6 J		
Barium	493	568	440	103 J	821	232 J		
Beryllium	0.3	1.2	1.1	0.7	2.1	0.2		
Cadmium	0.2	0.2	1.0	1.5	0.3	0.3		
Calcium	—	378,000	309,000	224,000 J	576,000	217,000		
Chromium	21.4 J	27.0	16.9	5.3 J	58.5	6.1		
Cobalt	—	24.1	12.3	6.6	46.5	6.0		
Copper	32.1	52.1	39.3	12.0 J	97.2 J	5.0		
Cyanide	3.0	3.0	1.0	3.3	0.7	0.5	10	10
Iron	27,200 J	45,400	25,300	17,300 J	90,600	9,100 J		
Lead	26.0 J	46.0	23.9	9.3 J	88.1 J	3.3 J		
Magnesium	—	115,000	83,600	46,800 J	184,000	42,100 J		
Manganese	—	2,940	988	758	5,750	585		
Mercury	0.1	0.1	0.1	0.1 J	0.1	0.1		
Nickel	26.0	41.2	23.4	17.2 J	80.5	8.1		
Potassium	—	5,050	3,970	8,320	9,100	3,320 J		
Selenium	4.4 R	4.4 UJ	4.4 UJ	4.4	4.4 R	6.6 U		
Silver	0.4	0.4	0.4	0.9	0.9	0.9		
Sodium	—	22,100	21,900	28,600 J	24,300	21,900		
Thallium	2.6 UJ	2.6	2.6	6.3	6.3	6.3		
Vanadium	—	41.5	22.2	3.7	84.3	16.1		
Zinc	87.8 J	147 J	72.9	22.1 UJ	283 J	20.4 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL		
1,1-Dichloroethane					0.34 J	1.0 U		10
1,2-Dichloropropane					0.23 J	1.0 U	5	10
Benzene					0.15 J	1.0 U	5	10
Ethylbenzene					0.14 J	1.0 U	62	10
Toluene					0.45 J	1.0 U	1,000	10
Tetrachloroethene					0.17 J	1.0 U	5	10
Xylene (total)					0.33 J	1.0 U	10,000	10
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL		
Bis (2-ethlyhexyl) phthalate	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	49	10
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

EarthTech
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Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-07R

	Sampling Event (All Results Expressed in Units of µg/l)							
	Quarterly Results							
Compound	**August-03**	**November-03**	**March-04**	**May-04**	**September-05**	**December-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]								
Aluminum	—	25.8	25.8	62.0	55.3	55.3		200
Antimony	3.7	3.7	3.7	3.9	3.9	3.9	60	60
Arsenic	2.9	4.5	2.9	5.4	5.4	35.8 J	20	10
Barium	152 J	131	113	119 J	118	46.7	1,000	200
Beryllium	0.1	0.1	0.1	0.2	0.2	0.2	5	5
Cadmium	0.2	0.2	0.2	0.9	0.3	0.3	5	5
Calcium	—	229,000	185,000	184,000	205,000	367,000		5,000
Chromium	2.9	0.8	1.1	1.5 UJ	3.3	1.7	11	10
Cobalt	—	1.4	0.7	0.9	0.6	0.6		50
Copper	1.2	1.2	1.2	1.4	1.2	1.2	25	25
Iron	301 J	3,580	32.9	41.3 J	9.1	9.1	7,000	100
Lead	1.5	1.5	1.5	2.4 UJ	2.4	2.4	4.2	3
Magnesium	—	33,000	26,300	28,100	29,400	52,300		5,000
Manganese	—	849	914 J	1,090 J	418	49.8		15
Mercury	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	2.4	1.6	2.2	3.5	1.1	1.8	96	40
Potassium	—	3,260	2,350	2,580 J	3,010 J	5,000 J		5,000
Selenium	4.4	4.4 R	4.4 UJ	4.4 UJ	4.4 UJ	8.5	8.5	5
Silver	0.4	0.4	0.4	0.9	0.9	0.9	10	10
Sodium	—	42,200	25,200	25,500 J	32,600 J	48,200		5,000
Thallium	2.6	2.6 UJ	2.6	8.5	6.3	6.3 U	40	10
Vanadium	—	0.8	0.8	1.1	1.1	8.5 B		50
Zinc	10.9	30.7 J	0.6 UJ	0.7 UJ	0.7	0.7 U	86	20
Inorganics - Metals and Cyanide (Total)								
Aluminum	—	3,130 J	7,810	10,300 J	8,270 J	7,040 J		
Antimony	3.7	3.7	6.6 J	4.5	5.1	4.0		
Arsenic	14.6	5.3	6.9	5.4	5.4 R	45.1 J		
Barium	699	204	484	570 J	469	319 J		
Beryllium	0.3	0.1	0.8	0.8	0.2	0.2		
Cadmium	0.2	0.2	0.9	1.2	0.3	0.3		
Calcium	—	246,000	281,000	260,000 J	250,000	392,000		
Chromium	21.5 J	4.9	12.9	17.4 J	13.4	12.8		
Cobalt	—	4.3	7.0	9.1	6.2	5.3		
Copper	30.4	10.0	35.5	31.1 J	15.3 J	15.2		
Cyanide	3.0	3.0	1.5	0.5	0.7	0.5	10.0	10.0
Iron	29,000 J	9,890	20,200	26,900 J	20,200	17,600 J		
Lead	16.8 J	5.2	9.2	15.7 J	11.4 J	6.7 J		
Magnesium	—	41,600	54,000	54,300 J	45,900	66,900 J		
Manganese	—	969	1,590	2,020 J	1,400	570		
Mercury	0.1	0.1	0.1	0.1	0.1	0.1		
Nickel	25.3	10.5	17.8	24.0 J	12.7	14.6		
Potassium	—	3,780	4,510	5,060 J	4,770	6,590 J		
Selenium	4.4 R	4.4 UJ	4.4 UJ	4.4	4.4 R	12.0 U		
Silver	0.4	0.4	0.4	0.9	0.9	0.9		
Sodium	—	41,200	31,200	27,100 J	32,400	48,500		
Thallium	2.6 UJ	2.6	2.6	6.3	7.0	7.7		
Vanadium	—	6.5	15.3 J	15.2	9.2	26.8		
Zinc	90.3 J	22.7 J	51.2	35.5 UJ	46.9 J	50.3 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL		
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL		
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL		

Notes:
1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

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Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-24

	Sampling Event (All Results Expressed in Units of µg/l)			
	Annual Results			
Compound	**November-03**	**December-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]				
Aluminum	25.8	55.3		200.00
Antimony	3.7 U	4.6	60	60
Arsenic	3.6 B	16.7	20	10
Barium	90.4 B	66.2	1,000	200
Beryllium	0.1 U	0.2	5	5
Cadmium	0.2 U	0.3	5	5
Calcium	111,000	99,500		5,000
Chromium	0.8 U	1.9	11	10
Cobalt	0.4	0.6		50
Copper	2.1 B	1.2	25	25
Iron	1,000	674	7,000	100
Lead	1.5 U	2.4 J	4.2	3
Magnesium	26,400	24,100		5,000
Manganese	169	175		15
Mercury	0.1 U	0.1	0.2	0.2
Nickel	0.7 U	1.1	96	40
Potassium	3,210	3,260		5,000
Selenium	4.4 U	4.4 J	8.5	5
Silver	0.4 U	0.9	10	10
Sodium	29,300	31,600		5,000
Thallium	2.6 U	6.3 J	40	10
Vandadium	0.9	6.0		50
Zinc	1.9 B	0.7	86	20
Inorganics - Metals and Cyanide (Total)				
Aluminum	13,000 J	32,400		
Antimony	3.7 U	3.9		
Arsenic	8.4 B	78.3 J		
Barium	162 B	209		
Beryllium	0.7 B	1.5		
Cadmium	0.2 U	0.3		
Calcium	544,000	788,000		
Chromium	19.5	52.2 J		
Cobalt	13.9	33.9		
Copper	21.6 B	43.6		
Cyanide	3.0 U	0.5	10	10
Iron	30,500	71,700		
Lead	20.8	33.0 UJ		
Magnesium	73,800	76,200		
Manganese	1,960	3,350		
Mercury	0.1 U	0.1		
Nickel	28.2 B	71.2		
Potassium	6,610	13,000		
Selenium	4.4 U	16.5 UJ		
Silver	0.4 U	0.9		
Sodium	31,500	35,600		
Thallium	2.6 U	15.1		
Vandadium	26.6	79.7		
Zinc	63.1	197.0		
Volatile Organic Compounds (VOCs)	BRL	BRL		
Carbon Disulfide		1.3		10
Benzene		0.084 J	5	10
Xylene		0.062 U	10,000	10
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL		
Pesticides / PCBs	BRL	BRL		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-26

	Sampling Event (All Results Expressed in Units of µg/l)			
	Annual Results			
Compound	**November-03**	**December-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]				
Aluminum	25.8	55.3		200
Antimony	4.1	3.9	60	60
Arsenic	5.9	13.5 J	20	10
Barium	344 J	314	1,000	200
Beryllium	0.1	0.2	5	5
Cadmium	0.2	0.3	5	5
Calcium	69,200	72,900		5,000
Chromium	0.8	4.4 J	11	10
Cobalt	1.0	0.6		50
Copper	2.0	1.2	25	25
Iron	442	65.0	7,000	100
Lead	1.5	2.4 UJ	4.2	3
Magnesium	38,500	41,300		5,000
Manganese	134	99.7		15
Mercury	0.1	0.1	0.2	0.2
Nickel	1.7	1.3	96	40
Potassium	19,500	20,400		5,000
Selenium	4.4 R	6.8 J	8.5	5
Silver	0.4	0.9	10	10
Sodium	187,000	169,000		5,000
Thallium	2.6 UJ	6.3	40	10
Vanadium	0.8	8.1		50
Zinc	0.6 UJ	0.7	86	20
Inorganics - Metals and Cyanide (Total)				
Aluminum	3,860 J	1,490		
Antimony	3.7 U	3.9		
Arsenic	2.9 B	15.6		
Barium	352	333		
Beryllium	0.2 B	0.2		
Cadmium	0.5 B	0.3		
Calcium	96,700	76,900		
Chromium	20.6	9.1		
Cobalt	5.8	2.9		
Copper	20.1 B	5.1		
Cyanide	3.0 U	0.5	10	10
Iron	10,300	3,930		
Lead	8.5	2.4 UJ		
Magnesium	41,900	38,800		
Manganese	320	159		
Mercury	0.1 U	0.1		
Nickel	16.8 B	6.5		
Potassium	19,100	22,300		
Selenium	4.4 UJ	4.40 UJ		
Silver	0.4 U	0.90		
Sodium	173,000	186,000		
Thallium	2.6 U	6.3 UJ		
Vanadium	2.2	10.4		
Zinc	32.2	35.8		
Volatile Organic Compounds (VOCs)	BRL	BRL		
Carbon Disulfide		0.31		10
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL		
Pesticides / PCBs	BRL	BRL		
4,4'-DDE		0.0047 J		0.10
Endosulfan sulfate		0.014 UJ		0.10
Endosulfan II		0.00492 J		0.10

Notes:
1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-30

	Sampling Event (All Results Expressed in Units of µg/l)			
	Annual Results			
Compound	**November-03**	**December-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]				
Aluminum	25.8	55.3		200
Antimony	3.7 U	3.9	60	60
Arsenic	2.9 U	10.9 J	20	10
Barium	334	367	1,000	200
Beryllium	0.1 U	0.2	5	5
Cadmium	0.2 U	0.3	5	5
Calcium	60,800	61,500		5,000
Chromium	0.8 U	3.0 J	11	10
Cobalt	0.4	0.6		50
Copper	5.4 B	1.2	25	25
Iron	427	376	7,000	100
Lead	1.5 U	2.4 UJ	4.2	3
Magnesium	28,900	29,600		5,000
Manganese	29.5	27.2		15
Mercury	0.1 U	0.1	0.2	0.2
Nickel	0.7 U	1.1	96	40
Potassium	12,600	13,500		5,000
Selenium	4.4 U	4.4 UJ	8.5	5
Silver	0.4 U	0.9	10	10
Sodium	146,000	143,000		5,000
Thallium	2.6 U	6.3	40	10
Vanadium	0.8	7.8		50
Zinc	0.6 U	0.7	86	20
Inorganics - Metals and Cyanide (Total)				
Aluminum	516	1,560		
Antimony	3.7 U	3.9		
Arsenic	2.9 U	19.2		
Barium	318	370		
Beryllium	0.1 U	0.2		
Cadmium	0.2 B	0.3		
Calcium	61,000	67,300		
Chromium	6.0 B	5.9		
Cobalt	0.4	1.0		
Copper	8.4 B	1.2		
Cyanide	3.0 U	0.5	10	10
Iron	2,090	3,240		
Lead	1.5 U	2.4 UJ		
Magnesium	29,200	30,300		
Manganese	48.2	70.7		
Mercury	0.1 U	0.1		
Nickel	4.5 B	3.5		
Potassium	12,700	13,900		
Selenium	4.4 U	4.4 UJ		
Silver	0.4 U	0.9		
Sodium	145,000	146,000		
Thallium	2.6 U	6.3		
Vanadium	0.8	9.5 UJ		
Zinc	6.5 B	9.9		
Volatile Organic Compounds (VOCs)	BRL	BRL		
Carbon Disulfide		5.1		10
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL		
Pesticides / PCBs	BRL	BRL		

Notes:
1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-58

	Sampling Event (All Results Expressed in Units of µg/l)							
	Quarterly Results							
Compound	**August-03**	**November-03**	**March-04**	**May-04**	**September-04**	**December-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]				Not Sampled*	Not Sampled*			
Aluminum	—	25.8	25.8	—	—	55.3		200
Antimony	3.7	3.7	3.7	—	—	3.9	60	60
Arsenic	3.1	6.0	3.1	—	—	17.7	20	10
Barium	162 J	228	156	—	—	162.0	1,000	200
Beryllium	0.1	0.1	0.1	—	—	0.2	5	5
Cadmium	0.2	0.2	0.2	—	—	0.3	5	5
Calcium	—	96,400	109,000	—	—	96,200		5,000
Chromium	2.5	0.8	1.5	—	—	1.8	11	10
Cobalt	—	0.4	1.3	—	—	0.6		50
Copper	1.2	1.2	2.9	—	—	1.2	25	25
Iron	488 J	2,890	209	—	—	1,290	7,000	100
Lead	1.5	1.5	1.5	—	—	2.4 J	4.2	3
Magnesium	—	32,800	32,500	—	—	31,900		5,000
Manganese	—	354	549	—	—	398		15
Mercury	0.1	0.1	0.1	—	—	0.1	0.2	0.2
Nickel	1.2	1.3	2.6	—	—	1.1	96	40
Potassium	—	5,210	4,550	—	—	4,820		5,000
Selenium	4.4	4.4 R	4.4 UJ	—	—	5.3 J	8.5	5
Silver	0.4	0.4	0.4	—	—	0.9	10	10
Sodium	—	34,400	32,400	—	—	32,900		5,000
Thallium	2.6	2.6 UJ	2.6	—	—	6.3 J	40	10
Vanadium	—	0.8	1.6	—	—	7.4		50
Zinc	7.7	0.6 UJ	0.6	—	—	0.7	86	20
Inorganics - Metals and Cyanide (Total)								
Aluminum	—	41,600	12,000	—	—	23,400		
Antimony	3.7	3.7	5.7	—	—	3.9		
Arsenic	20.6	32.9	11.5 J	—	—	60.7 J		
Barium	391	822	284	—	—	486		
Beryllium	0.7	2.9	1	—	—	1.4		
Cadmium	0.2	1.8	1.5	—	—	0.3		
Calcium	—	745,000	214,000	—	—	441,000		
Chromium	42.6 J	112	28.2	—	—	54.2 J		
Cobalt	—	57.2	13.4	—	—	27.4		
Copper	43.2	138	45.7	—	—	56.0		
Cyanide	3.0	3.0	0.5	—	—	0.5	10	10
Iron	40,800 J	129,000	32,700	—	—	61,800		
Lead	26.8 J	92.7	19.5	—	—	39.5 UJ		
Magnesium	—	148,000	56,000	—	—	88,600		
Manganese	—	4,200	1,300	—	—	2,430		
Mercury	0.1	0.1	0.1	—	—	0.1		
Nickel	50.6	124	32.1	—	—	63.0		
Potassium	—	11,800	7,640	—	—	11,800		
Selenium	4.4 R	4.4 UJ	4.4 UJ	—	—	5.1 J		
Silver	0.4	1.6	0.4	—	—	0.9		
Sodium	—	36,900	33,500	—	—	37,200		
Thallium	2.6 UJ	2.6	4.1 J	—	—	6.5		
Vanadium	—	74.0	23.2	—	—	63.2		
Zinc	137 J	367 J	81.0 J	—	—	178		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	—	—	BRL		
Benzene						0.061 J	5	10
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	—	—	BRL		
Pesticides / PCBs	BRL	BRL	BRL	—	—	BRL		

Notes:

* - Well not sampled, wasp nest in standpipe.

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

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Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-59

	Sampling Event (All Results Expressed in Units of µg/l)							
	Quarterly Results							
Compound	**August-03**	**November-03**	**March-04**	**May-04**	**September-04**	**December-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]								
Aluminum	—	25.8	27.2	55.3	55.3	55.3		200
Antimony	7.2	6.5	3.7	3.9	3.9	5.7	60	60
Arsenic	2.9	2.9	2.9	5.4	5.4	28.5 J	20	10
Barium	38.1 J	40.7	21.8	23.2	28.6	23.0	1,000	200
Beryllium	0.1	0.1	0.1	0.2	0.2	0.2	5	5
Cadmium	0.2	0.2	0.2	0.3	0.3	0.3	5	5
Calcium	—	261,000	239,000	209,000	238,000	217,000		5,000
Chromium	3.3	0.8	1.8	1.5	4.4	2.4	11	10
Cobalt	—	0.4	0.4	0.6	0.6	0.7		50
Copper	3.0	4.0	2.1	1.2	1.2	1.2	25	25
Iron	14.1	14.1	28.8	31.0	9.1	9.1	7,000	100
Lead	1.5	1.5	1.5	2.4	2.4	2.4	4.2	3
Magnesium	—	59,500	49,000	43,900	53,500	44,200		5,000
Manganese	—	27.3	4.5 J	0.6	13.6	1.3		15
Mercury	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	3.0	2.3	2.6	2.2	1.1	1.2	96	40
Potassium	—	29,800	32,800	29,200	25,200	32,500 J		5,000
Selenium	4.4	4.4 R	4.4 UJ	4.4 R	4.4 UJ	4.4	8.5	5
Silver	0.4	0.4	0.4	0.9	1.2	0.9	10	10
Sodium	—	186,000	166,000	145,000	179,000	134,000		5,000
Thallium	2.6	2.6 UJ	3.1 J	6.3 UJ	6.3	6.3	40	10
Vanadium	—	0.8	1.4	1.1	1.1	8.6		50
Zinc	18.4	0.6 UJ	3.1 J	0.7	0.7	0.7	86	20
Inorganics - Metals and Cyanide (Total)								
Aluminum	—	3,710	816	754	4,300 J	1,040 J		
Antimony	3.7	3.7	4.7	3.9	4.9	4.2		
Arsenic	3.6	4.3	2.9	5.4	5.4 R	28.2 J		
Barium	62.1	213	55.0	58.4	214	44.6 J		
Beryllium	0.1	0.1	0.2	0.2	0.2	0.2		
Cadmium	0.2	0.2	0.2	0.3	0.3	0.3		
Calcium	—	281,000	243,000	234,000	276,000	211,000		
Chromium	8.3 J	19.1	5.5	3.7	22.8	6.8		
Cobalt	--	7.4	2.1	2.5	8.4	2.1		
Copper	6.0	11.9	10.1	4.1	6.5 J	2.7		
Cyanide	3.0	3.0	1.0	0.6	0.5	0.5	10	10
Iron	2,240 J	12,900	3,020	2,710	14,000	4,260 J		
Lead	5.7 J	10.0	1.5	4.7 J	11.7 J	2.4		
Magnesium	—	62,400	51,500	49,100	58,000	40,400 J		
Manganese	—	923	224	357	1,180	295		
Mercury	0.1	0.1	0.1	0.1	0.1	0.1		
Nickel	6.5	20.0	6.7	6.3	19.0	6.6		
Potassium	—	31,900	32,500	32,900	28,600	33,700 J		
Selenium	4.4 R	4.4 UJ	4.4 UJ	4.4 UJ	4.4 R	4.4 U		
Silver	0.4	0.4	0.4	0.9	0.9	0.9		
Sodium	—	180,000	162,000	152,000	184,000	127,000		
Thallium	2.6 UJ	2.6	2.6	6.3	6.3	6.3		
Vanadium	—	5.9	2.3	1.1	1.2	10.6		
Zinc	21.2 J	36.3 J	7.9 J	10.6	34.4 J	15.0 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL		
1,1-Dichloroethane	1.0 U	1.0 U	1.0 U	0.18 J	0.098 J	0.18 J		10
Ethylbenzene					0.016 J	1.0 U	62	10
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL		
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

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Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-60

	Sampling Event (All Results Expressed in Units of µg/l)							
	Quarterly Results							
Compound	**August-03**	**November-03**	**March-04**	**May-04**	**September-04**	**December-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]	Insufficient Volume		Insufficient Volume		Insufficient Volume			
Aluminum	—	25.8	25.8	57.9	—	55.3		200
Antimony	—	3.7	5.1	3.9	—	7.4	60	60
Arsenic	—	2.9	2.9	5.4	—	35.4 J	20	10
Barium	—	28.7	27.1	37.0	—	85.2	1,000	200
Beryllium	—	0.1	0.2	0.2	—	0.2	5	5
Cadmium	—	0.2	0.2	0.6	—	0.3	5	5
Calcium	—	100,000	309,000	163,000	—	298,000		5,000
Chromium	—	0.8	2.6	1.5	—	3.0	11	10
Cobalt	—	0.4	0.4	0.6	—	0.6		50
Copper	—	4.2	4.0	1.2	—	1.2	25	25
Iron	—	14.1	14.1	26.4	—	9.1	7,000	100
Lead	—	1.5	1.5	2.4	—	2.4	4.2	3
Magnesium	—	20,100	88,200	28,800	—	50,800		5,000
Manganese	—	2.4	0.5 J	1.4	—	1.0		15
Mercury	—	0.1	0.1	0.1	—	0.1	0.2	0.2
Nickel	—	0.7	2.4	2.1	—	1.2	96	40
Potassium	—	6,970	6,480	6,640	—	13,100 J		5,000
Selenium	—	4.4 R	4.4 UJ	4.4 R	—	6.8	8.5	5
Silver	—	0.4	0.4	0.9	—	0.9	10	10
Sodium	—	201,000	46,000	46,000	—	89,800		5,000
Thallium	—	2.6 UJ	2.6	6.3 UJ	—	6.3	40	10
Vanadium	—	0.8	0.8	1.1	—	9.9		50
Zinc	—	0.6 UJ	0.6 UJ	0.7	—	0.7	86	20
Inorganics - Metals and Cyanide (Total)								
Aluminum	—	13,400 J	32,500	16,300	—	23,700 J		
Antimony	—	3.7	9.7	8.2	—	3.9		
Arsenic	—	11.7	17.0 J	5.4	—	49.4 J		
Barium	—	89.8	129	88.1	—	159 J		
Beryllium	—	0.9	2.5	1.3	—	1.3		
Cadmium	—	0.2	2.8	1.2	—	0.3		
Calcium	—	158,000	492,000	234,000	—	337,000		
Chromium	—	33.2	59.6	31.6	—	44.0		
Cobalt	—	16.6	36.1	19.1	—	25.3		
Copper	—	29.3	54.5	26.9	—	25.4		
Cyanide	—	3.0	—	0.5	—	0.5	10	10
Iron	—	31,300	74,200	41,800	—	58,100 J		
Lead	—	28.2	40.4	26.9 J	—	35.0 J		
Magnesium	—	32,500	112,000	41,900	—	62,200 J		
Manganese	—	555	1,410	785	—	1,880		
Mercury	—	0.1	0.1	0.1	—	0.1		
Nickel	—	31.6	67.3	37.8	—	50.1		
Potassium	—	9,290	11,800	10,600	—	17,600 J		
Selenium	—	4.4 UJ	4.4 UJ	4.4 UJ	—	9.9 U		
Silver	—	0.4	0.4	0.9	—	0.9		
Sodium	—	212,000	44,600	45,000	—	89,000		
Thallium	—	2.6	11.0 J	6.3	—	6.3		
Vanadium	—	23.2	51.2	19.8	—	55.0		
Zinc	—	135 J	180 J	97.3	—	140 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	—	BRL		
Carbon disulfide						0.53 U		10
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	—	BRL		
N-Nitrosodiphenylamine						0.954 U		10
Pesticides / PCBs	BRL	BRL	BRL	BRL	—	BRL		

Notes:
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9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-61

	Sampling Event (All Results Expressed in Units of µg/l)							
	Quarterly Results							
Compound	**August-03**	**November-03**	**March-04**	**May-04**	**September-04**	**December-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved) [13]								
Aluminum	—	25.8	25.8	55.3	55.3	55.3		200
Antimony	3.7	3.7	4.5	4.5	7.5	7.5	60	60
Arsenic	4.7	7.5	2.9	5.4	5.4	31.2 J	20	10
Barium	77.7 J	83.3	39.4	45.3 J	65.0	65.6	1,000	200
Beryllium	0.1	0.1	0.1	0.2	0.2	0.2	5	5
Cadmium	0.2	0.2	0.3	0.9	0.3	0.3	5	5
Calcium	—	191,000	191,000	178,000	199,000	216,000		5,000
Chromium	3.8	0.8	1.1	1.5	3.8	1.9	11	10
Cobalt	—	2.0	1.4	1.4	1.3	1.6		50
Copper	1.2	1.2	8.0	1.2	1.2	1.2	25	25
Iron	6,100 J	5,100	187	1,370 J	4,410	1,310	5,000	100
Lead	1.5	1.5	1.5	2.4 UJ	2.4	2.4	4.2	3
Magnesium	—	35,700	29,100	34,100	40,500	41,500		5,000
Manganese	—	866	485	481	686	564		15
Mercury	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	4.0	4.0	4.2	4.7 J	4.0	3.6	96	40
Potassium	—	10,100	6,990	7,160	8,690 J	8,360 J		5,000
Selenium	4.4	4.4 R	4.4 UJ	4.4	4.4 UJ	4.5	8.5	5
Silver	0.4	0.4	0.4	0.9	0.9	0.9	10	10
Sodium	—	28,300	27,900	28,600	28,400 J	56,600		5,000
Thallium	2.6	2.6 UJ	2.6	6.3	8.2	6.3	40	10
Vanadium	—	0.8	1.2	1.1	4.4	8.8		50
Zinc	13.1	4.8 J	0.6	0.7 UJ	0.7	0.7	86	20
Inorganics - Metals and Cyanide (Total)								
Aluminum	—	1,080	452	5,090 J	7,740 J	6,330 J		
Antimony	3.7	3.7	4.8	5.2	3.9	4.3		
Arsenic	17.9	3.7	2.9	5.4	5.4 R	40.5 J		
Barium	202	91.3	44.1	108 J	155	121 J		
Beryllium	0.2	0.1	0.2	0.6	0.2	0.2		
Cadmium	0.2	0.2	0.3	1.2	0.3	0.3		
Calcium	—	190,000	187,000	217,000 J	278,000	237,000		
Chromium	23.2 J	2.1	1.9	8.1 J	15.0	12.3		
Cobalt	—	3.3	1.7	6.5	8.2	5.8		
Copper	28.2	4.2	22.2	12.4 J	12.6 J	8.0		
Cyanide	3.0	3.0	0.5	0.5	0.8	0.5	10	10
Iron	33,400 J	8,640	2,430	17,500 J	26,200	16,100 J		
Lead	19.7 J	1.6	22.1	9.3 J	10.3 J	4.7 J		
Magnesium	—	37,500	30,000	45,200 J	59,700	45,600 J		
Manganese	—	922	527	751 J	1,190	754		
Mercury	0.1	0.1	0.1	0.1	0.1	0.1		
Nickel	29.5	7.6	4.3	17.2 J	19.3	14.8		
Potassium	—	9,430	6,950	9,300	10,900	10,400 J		
Selenium	4.4 R	4.4 UJ	4.4 UJ	4.4	4.4 R	5.2 U		
Silver	0.4	0.4	0.4	0.9	0.9	0.9		
Sodium	—	27,700	27,000	30,300 J	32,800	57,400		
Thallium	2.6 UJ	2.6	2.6	6.3	6.3	6.3		
Vanadium	—	0.8	2.1	3.4	6.6	21.7		
Zinc	96.7 J	13.8 J	7.3 J	22.4 UJ	56.9	39.5 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL		
Carbon disulfide	1.4	1.0 U	1.0 U	1.0 U	0.43 J	1.0 U		10
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL		
Bis(2-Chloroethyl)ether				0.665 J	0.893 J	10.0 U	13.6	10
Bis (2-ethlyhexyl) phthalate	40.6	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	49	10
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL		

Notes:
1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

EarthTech
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Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-62A

	Sampling Event (All Results Expressed in Units of µg/l)							
	Quarterly Results							
Compound	**August-03**	**November-03**	**March-04**	**May-04**	**September-04**	**December-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]								
Aluminum	—	25.8	25.8	55.3	55.3	55.3		200
Antimony	3.7	3.7	3.7	4.7	5.4	5.4	60	60
Arsenic	2.9	2.9	2.9	5.4	5.4	16.5 J	20	10
Barium	145 J	126	111	117	111	68.5	1,000	200
Beryllium	0.1	0.1	0.1	0.2	0.2	0.2	5	5
Cadmium	0.2	0.2	0.2	0.3	0.3	0.3	5	5
Calcium	—	123,000	122,000	122,000	132,000	88,000		5,000
Chromium	3.5	0.8	2.1	2.8	4.5	3.3	11	10
Cobalt	—	0.4	0.5	0.6	0.6	0.6		50
Copper	2.4	2.7	1.2	1.2	1.2	1.2	25	25
Iron	14.1	14.1	14.1	27.0	9.1	10.2	7,000	100
Lead	1.5	1.5	1.5	2.4	2.4	2.4	4.2	3
Magnesium	—	49,200	48,700	47,700	49,400	32,700		5,000
Manganese	—	51.4	164 J	58.2	29.2	9.7		15
Mercury	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	0.7	0.9	1.8	2.2	1.1	1.1	96	40
Potassium	—	10,800	11,100	10,900	10,000 J	6,680 J		5,000
Selenium	4.4	4.4 R	4.4 UJ	4.4 R	4.4 UJ	4.4	8.5	5
Silver	0.4	0.4	0.4	0.9	1.6	0.9	10	10
Sodium	—	120,000	120,000	108,000	120,000 J	77,000		5,000
Thallium	2.6	2.6 UJ	2.6	6.3 UJ	6.3	6.3	40	10
Vanadium	—	0.8	1.6	1.1	1.1	8.2		50
Zinc	11.0	0.9 J	0.6 UJ	3.7	0.7	5.2	86	20
Inorganics - Metals and Cyanide (Total)								
Aluminum	—	24,100	13,200	4,100	5,690 J	12,400 J		
Antimony	3.7	3.7	6.1	8.0	3.9	3.9		
Arsenic	18.3	17.7	8.3 J	5.4	5.4 R	37.6 J		
Barium	800	633	361	226	237	363 J		
Beryllium	1.1	1.5	1.1	0.3	0.2	0.5		
Cadmium	0.2	1.1	1.6	0.3	0.3	0.3		
Calcium	—	618,000	337,000	231,000	200,000	239,000		
Chromium	68.6 J	49.5	29.6	10.7	17.8	33.9		
Cobalt	—	33.5	15.6	5.4	6.2	13.9		
Copper	68	72.8	42.7	8.8	9.6 J	25.1		
Cyanide	3.0	3.0	1.0	0.5	0.6	0.5	10.0	10.0
Iron	65,400 J	60,800	35,000	9,710	14,200	31,900 J		
Lead	65.2 J	72.8	39.5	12.0 J	16.8 J	23.9 J		
Magnesium	—	137,000	88,000	57,500	57,400	68,800 J		
Manganese	—	3,380	1,460	746	608	1,030		
Mercury	0.1	0.1	0.1	0.1	0.1	0.1		
Nickel	75.7	64.3	35.4	13.1	12.3	35.1		
Potassium	—	15,100	13,900	12,100	12,000	13,800 J		
Selenium	4.4 R	4.4 UJ	4.4 UJ	4.4 UJ	4.4 R	8.1 U		
Silver	0.4	0.4	0.4	0.9	0.9	0.9		
Sodium	—	121,000	123,000	108,000	121,000	118,000		
Thallium	2.6 UJ	2.6	6.9 J	6.3	6.3	6.3		
Vanadium	—	40.5	23.0	1.1	1.9	37.1		
Zinc	234 J	181 J	101 J	34.7	42.9 J	97.8 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL		
Benzene					0.035 J	1.0 U	5	10
Ethylbenzene					0.019 J	1.0 U	62	10
Xylene (total)					0.039 J	1.0 U	10,000	10
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL		
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL		

Notes:

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12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

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Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-62B

	Sampling Event (All Results Expressed in Units of µg/l)							
	Quarterly Results							
Compound	**August-03**	**November-03**	**March-05**	**May-04**	**September-04**	**December-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]	Well is Dry	Well is Dry	Well is Dry	Insufficient Volume	Well is Dry	Insufficient Volume		
Inorganics - Metals and Cyanide (Total)	—	—	—	—	—	—		
Volatile Organic Compounds (VOCs)	—	—	—	BRL	—	BRL		
1,1-Dichloroethane				1.9		0.47 J		10
Chlorobenzene				0.29 J		1.0 U	26	10
Trichlorothene				0.11 J		1.0 U	5	10
Xylene				0.4 J		1.0 U	10,000	10
Benzene				6.0		1.0 U	5	10
Semi-Volatile Organic Compounds (SVOCs)	—	—	—	—	—	BRL		
Pesticides / PCBs	—	—	—	—	—	—		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = No Sample Available (Well Dry)
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-63

	Sampling Event (All Results Expressed in Units of µg/l)							
	Quarterly Results							
Compound	**August-03**	**November-03**	**March-04**	**May-04**	**September-04**	**December-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]								
Aluminum	—	25.8	25.8	82.4	55.3	55.3		200
Antimony	7.1	3.7	3.8	11.3	5.7	6.2	60	60
Arsenic	2.9	5.4	2.9	5.4	5.4	30.4 J	20	10
Barium	58.8 J	68.6	20.1	29.9 J	50.6	41.3	1,000	200
Beryllium	0.1	0.1	0.2	0.5	0.2	0.2	5	5
Cadmium	0.2	0.2	0.2	1.3	0.3	0.3	5	5
Calcium	—	278,000	295,000	287,000	292,000	252,000		5,000
Chromium	3.2	0.8	1.8	1.5 UJ	4.7	3.2	11	10
Cobalt	—	4.1	1.1	3.6	2.9	2.6		50
Copper	1.2	1.2	2.0 J	1.2	1.2	1.2	25	25
Iron	1,890 J	1,150	21.4	620 J	1,150	1,220	7,000	100
Lead	1.5	1.5	1.5	2.4 UJ	2.4	2.4	4.2	3
Magnesium	—	61,000	67,000	67,400	63,300	57,900		5,000
Manganese	—	2,600	271 J	1,840 J	2,610	1,970		15
Mercury	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	8.3	6.9	3.2	8.8 J	4.0	3.8	96	40
Potassium	—	11,600	5,210	7,800 J	9,090 J	8,450 J		5,000
Selenium	4.4	4.4 R	4.4 UJ	4.4 UJ	4.4 UJ	6.8	8.5	5
Silver	0.4	0.4	0.4	0.9	0.9	0.9	10	10
Sodium	—	72,100	46,100	75,100 J	99,800 J	50,700		5,000
Thallium	2.6	2.6 UJ	4.6 J	6.3	6.3	6.3	40	10
Vanadium	—	0.8	0.8	1.1	1.1	10.9		50
Zinc	10.8	3.7 J	0.6 UJ	0.7 UJ	0.7	0.7	86	20
Inorganics - Metals and Cyanide (Total)								
Aluminum	—	10,500	26,600	44,700 J	37,200 J	30,700 J		
Antimony	3.7	3.7	5.7	13.6	3.9	3.9		
Arsenic	12.6	9.3	17.1 J	9.7 J	5.4 R	74.0 J		
Barium	217	147	186	334 J	279	244 J		
Beryllium	0.9	0.6	2.1	3.4	1.4	1.7		
Cadmium	0.2	0.2	2.5	3.9	0.3	0.3		
Calcium	—	465,000	465,000	659,000 J	569,000	752,000		
Chromium	36.1 J	13.7	38.2	66.8 J	52.0	41.9		
Cobalt	—	17.5	28.3	56.1	41.1	38.6		
Copper	33.0	17.4	69.2	104 J	64.0 J	43.0		
Cyanide	3.0	3.0	0.5	1.2	0.7	0.5	10	10
Iron	53,900 J	25,800	63,200	112,000 J	84,700	69,800 J		
Lead	36 J	23.4	41.0	76.4 J	57.4 J	46.6 J		
Magnesium	—	96,100	111,000	148,000 J	121,000	106,000 J		
Manganese	—	4,090	2,570	5,580 J	5,250	6,160		
Mercury	0.1	0.1	0.1	0.1	0.1	0.1		
Nickel	59.6	31.0	58.1	114 J	83.3	68.7		
Potassium	—	31,500	9,320	15,800 J	15,500	16,100 J		
Selenium	4.4 R	4.4 UJ	4.4 UJ	7.2	4.4 R	12.3 U		
Silver	0.4	0.4	0.4	0.9	0.9	0.9		
Sodium	—	73,600	45,000	81,700 J	100,000	53,100		
Thallium	2.6 UJ	2.6	8.5 J	6.3	6.3	6.3		
Vanadium	—	17.8	43	69.3	58.7	74.1		
Zinc	182 J	66.3 J	176 J	292 J	243 J	199 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL		
Acetone	5.0 U	5.0 U	5.0 R	5.0 R	5.0 R	5.0 R		10
Benzene					0.027	1.0 U	5	10
Carbon disulfide	1.3	1.0 U	1.0 U	1.0 U	0.075 J	1.0 U		10
Ethylbenzene					0.022 J	1.0 U	62	10
Xylene (total)					0.037 J	1.0 U	10,000	10
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL		
Di-n-butylphthalate				0.692 J	10.0 U	10.0 U	10	10
Butylbenzylphthalate			0.61 J	10.0 U	10.0 U	10.0 U	10	10
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

EarthTech
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Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-64

	Sampling Event (All Results Expressed in Units of µg/l)							
	Quarterly Results							
Compound	**August-03**	**November-03**	**March-04**	**May-04**	**September-04**	**December-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]								
Aluminum	—	25.8	25.8	55.3	55.3	55.3		200
Antimony	4.2	3.7	3.7	6.9	7.1	5.9	60	60
Arsenic	2.9	2.9	2.9	5.4	5.4	23.6 J	20	10
Barium	31.5 J	44.6	28.3	29.3	26.6	28.3	1,000	200
Beryllium	0.1	0.1	0.1	0.2	0.2	0.2	5	5
Cadmium	0.2	0.2	0.2	0.3	0.3	0.3	5	5
Calcium	—	185,000	176,000	170,000	184,000	173,000		5,000
Chromium	3.8	0.8	1.7	3.5	6.0	2.6	11	10
Cobalt	—	0.5	1.8	1.2	0.9	1.1		50
Copper	4.5	3.4	1.2	2.2	1.2	1.2	25	25
Iron	14	14.1	14.1	35.5	9.1	9.1	7,000	100
Lead	1.5	1.5	1.5	2.4 UJ	2.4	2.4	4.2	3
Magnesium	—	61,800	56,700	55,100	59,600	58,000		5,000
Manganese	—	292	1,170 J	2,270	100	830		15
Mercury	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	9.4	5.2	7.8	10.7	2.8	9.4	96	40
Potassium	—	12,300	12,900	17,500	20,400 J	18,000 J		5,000
Selenium	4.4	4.4 R	4.4 UJ	4.4 R	4.4 UJ	4.4	8.5	5
Silver	0.4	0.4	0.4	0.9	1.1	0.9	10	10
Sodium	—	67,600	53,900	61,400	64,400 J	56,200		5,000
Thallium	2.6	2.6 UJ	2.6	6.3 UJ	6.3	6.3	40	10
Vanadium	—	0.8	0.8	1.1	1.1	9.6		50
Zinc	16.1	2.6 J	0.6 UJ	0.7	0.7	0.7	86	20
Inorganics - Metals and Cyanide (Total)								
Aluminum	--	18,700 J	3,080	3,440	14,600 J	15,100 J		
Antimony	3.7	3.7	4.9	4.8	3.9	3.9		
Arsenic	6.2	10.8	2.9	5.4	5.4 R	36.4 J		
Barium	58.3	95.9	37.1	36.6	59.8	68.7 J		
Beryllium	0.2	1.0	0.3	0.5	0.3	0.8		
Cadmium	0.2	0.2	0.2	0.7	0.3	0.3		
Calcium	—	311,000	213,000	213,000	224,000	245,000		
Chromium	22.4 J	29.4	7.0	2.8	24.3	28.7		
Cobalt	—	23.1	5.4	6.3	13.6	17.2		
Copper	16.0	16.3	11.3	7.4	14.9 J	17.7		
Cyanide	3.0	3.0	1.3	0.5	1.2	0.5	10	10
Iron	24,300 J	42,900	7,520	8,940	34,500	38,600 J		
Lead	9.7 J	20.0	1.5	6.2 J	14.4 J	15.1 J		
Magnesium	—	77,300	66,000	56,200	67,300	74,100 J		
Manganese	—	2,390	1,650	2,840	1,460	2,530		
Mercury	0.1	0.1	0.1	0.1	0.1	0.1		
Nickel	33.9	46.0	16.4	20.3	32.3	42.9		
Potassium	—	14,700	15,000	18,400	23,500	21,200 J		
Selenium	4.4 R	4.4 UJ	4.4 UJ	4.4 UJ	4.4 R	5.1 U		
Silver	0.4	0.4	0.4	0.9	0.9	0.9		
Sodium	—	68,300	59,800	58,200	63,100	56,300		
Thallium	2.6 UJ	2.6	2.6	6.3 UJ	6.3	6.3		
Vanadium	—	27.3	5.3	1.1	16.0	40.8		
Zinc	73.6 J	114 J	13.6 J	19.1	70.3 J	83.1 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL		
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL		
Bis (2-ethlyhexyl) phthalate	10.0	10.0 U	10.0	10.0 U	10.0 U	10.0 U	49	10
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Monitoring Well GW-65

	Sampling Event (All Results Expressed in Units of µg/l)							
	Quarterly Results							
Compound	**August-03**	**November-03**	**March-04**	**May-04**	**September-04**	**December-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]	Insufficient Volume	Insufficient Volume	Insufficient Volume	Insufficient Volume	Well is Dry	Insufficient Volume		
Antimony	—	—	—	—	—	—	60	60
Arsenic	—	—	—	—	—	—	10	10
Barium	—	—	—	—	—	—	1,000	200
Beryllium	—	—	—	—	—	—	5	5
Cadmium	—	—	—	—	—	—	5	5
Chromium	—	—	—	—	—	—	11	10
Copper	—	—	—	—	—	—	25	25
Iron	—	—	—	—	—	—	5,000	100
Lead	—	—	—	—	—	—	4.2	3
Mercury	—	—	—	—	—	—	0.2	0.2
Nickel	—	—	—	—	—	—	96	40
Selenium	—	—	—	—	—	—	5	5
Silver	—	—	—	—	—	—	10	10
Thallium	—	—	—	—	—	—	40	10
Zinc	—	—	—	—	—	—	86	20
Inorganics - Metals and Cyanide (Total)								
Antimony	—	—	—	—	—	—		
Arsenic	—	—	—	—	—	—		
Barium	—	—	—	—	—	—		
Beryllium	—	—	—	—	—	—		
Cadmium	—	—	—	—	—	—		
Chromium	—	—	—	—	—	—		
Copper	—	—	—	—	—	—		
Cyanide	—	—	—	—	—	—	10	10
Iron	—	—	—	—	—	—		
Lead	—	—	—	—	—	—		
Mercury	—	—	—	—	—	—		
Nickel	—	—	—	—	—	—		
Selenium	—	—	—	—	—	—		
Silver	—	—	—	—	—	—		
Thallium	—	—	—	—	—	—		
Zinc	—	—	—	—	—	—		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	—	BRL		
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	—	BRL	—	—		
4-Nitrophenol	10.0 U	10.0 U					150	25
Bis (2-ethlyhexyl) phthalate	10.0 U	10.0 U					49	10
Pesticides / PCBs	—	—	—	—	—	—		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = No Sample Available (Well Dry)
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Creek Surface Water Sample Location SW-50

	Sampling Event (All Results Expressed in Units of µg/l)							
	Quarterly Results							
Compound	**August-03**	**November-03**	**March-04**	**May-04**	**September-04**	**December-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]								
Aluminum	—	25.8	25.8	74.3	55.3	55.3		200
Antimony	3.7	3.7	3.7	4.7	9.9	3.9	60	60
Arsenic	7.1	2.9	2.9	5.4	5.4	13.1 J	20	10
Barium	55.2	40.0	35.8	50.9	56.3	38.4	1,000	200
Beryllium	0.1	0.1	0.1	0.3	0.2	0.2	5	5
Cadmium	0.2	0.2	0.2	1.2	0.3	0.3	5	5
Calcium	—	84,100	103,000	92,300	95,700	10,900		5,000
Chromium	1.8	0.8	1.6	1.5 UJ	3.5	3.8 J	11	10
Cobalt	—	0.5	0.4	0.6	0.6	0.6		
Copper	3.1	4.4	4.3	1.4	1.2	1.2	25	25
Iron	14.1	14.1	14.1	36.5	9.1	9.1	7,000	100
Lead	1.5	1.5	1.5	2.4	2.4	2.4 UJ	4.2	3
Magnesium	—	23,400	29,700	28,600	28,500	30,500		5,000
Manganese	—	3.8	30.0 J	5.0	27.1	2.8		15
Mercury	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	0.7	0.7	1.0	2.8	1.1	1.1	96	40
Potassium	—	3,840	2,980	3,160	4,340	2,180		5,000
Selenium	4.4	4.4 R	4.4 R	4.4 UJ	4.4 R	7.9 J	8.5	5
Silver	0.4	0.4	0.4	0.9	1.3	1.0	10	10
Sodium	—	32,100	59,200	38,700	49,200 J	45,800		5,000
Thallium	6.8 J	2.6	2.6	6.3	6.3	6.3	40	10
Vanadium	—	0.8	2.2	1.1	4.0	7.8		50
Zinc	13.8	0.6 UJ	0.6	0.7 UJ	0.7	0.7	86	20
Inorganics - Metals and Cyanide (Total)								
Aluminum	—	25.8	62,300 J	100	55.3	55.3		
Antimony	3.7	3.7	7.3 J	3.9	3.9	3.9		
Arsenic	2.9	3.4	50.7 J	5.4	5.4 R	18.2		
Barium	55.4	41.3	499 J	53.0	57.6	39.1		
Beryllium	0.1	0.1	4.9	0.2	0.2	0.2		
Cadmium	0.2	0.2	5.0	0.9	0.3	0.3		
Calcium	—	86,400	427,000 J	93,500	93,400	106,000		
Chromium	1.7	0.8	72.6 J	1.5	2.9	2.2		
Cobalt	—	0.4	59.7	0.6	0.6	0.6		
Copper	2.5	4.4	131 J	1.2	1.2	1.2		
Cyanide	3.0	3.0	0.8	0.5	0.5	0.5	10	10
Iron	23.5	69.2	124,000 J	102	9.1	34.2		
Lead	1.5	1.5	122 J	2.4	2.4	2.4 UJ		
Magnesium	—	23,900	80,300	30,200	26,800	30,600		
Manganese	—	5.8	5,690	8.1	43.3	4.5		
Mercury	0.1	0.1	0.1	0.1	0.1	0.1		
Nickel	1.5	0.7	116 J	1.1	1.1	1.1		
Potassium	—	3,990	12,200	3,230	3,910	2,150		
Selenium	4.4 UJ	4.4 R	4.4 R	4.4	4.4 R	4.4 UJ		
Silver	0.4	0.4	0.4	0.9	0.9	0.9		
Sodium	—	33,000	60,200	40,300	48,100	44,600		
Thallium	5.5 J	2.6	2.6	6.3	6.3	7.4 J		
Vanadium	—	0.8	105	1.1	1.1	6.3		
Zinc	10.9	1.3 J	490 J	0.7 UJ	0.7	0.7		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL		
1,2,4-Trichlorobenzene					0.026 J	1.0 U	77	10
Chloroform					0.019 J	1.0 U	79	10
Carbon Disulfide						0.53 J		
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	10.0 U	BRL	BRL	BRL		
Fluoranthene			0.84 J	10.0 U	10.0 U	10.0 U	10	10
Phenanthrene			0.79 J	10.0 U	10.0 U	10.0 U	10	10
Pyrene			0.67 J	10.0 U	10.0 U	10.0 U		10
Diethylphthalate		2.17 J	10.0 U	10.0 U	10.0 U	10.0 U		10
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL		

Notes:
1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a .45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

EarthTech
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Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Creek Surface Water Sample Location SW-51

	Sampling Event (All Results Expressed in Units of µg/l)							
	Quarterly Results							
Compound	**August-03**	**November-03**	**March-04**	**May-04**	**September-04**	**December-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]								
Aluminum	—	25.8	25.8	89.6	55.3	55.3		200
Antimony	3.7	3.7	3.7	3.9	3.9	3.9	60	60
Arsenic	5.3	3.2	2.9	5.4	5.4	12.1 J	20	10
Barium	49.9	42.2	36.7	46.2	51.0	39.1	1,000	200
Beryllium	0.1	0.1	0.1	0.3	0.2	0.2	5	5
Cadmium	0.2	0.2	0.2	1.2	0.3	0.3	5	5
Calcium	—	88,800	106,000	89,600	89,300	110,000		5,000
Chromium	0.8	0.8	1.7	1.5 UJ	3.1	1.5 J	11	10
Cobalt	—	*0.4*	*0.4*	*0.6*	*0.6*	*0.6*		*50*
Copper	2.2	5.1	3.0	1.2	1.2	1.2	25	25
Iron	14.1	14.1	14.1	41.5	9.1	9.1	7,000	100
Lead	1.5	1.5	1.5	2.4 UJ	2.4	2.4 UJ	4.2	3
Magnesium	—	24,700	31,500	29,200	29,300	32,000		5,000
Manganese	—	4.6	29.9 J	4.3	2.6	5.6		15
Mercury	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	0.7	0.7	2.4	2.5	1.1	1.1	96	40
Potassium	—	3,910	2,160	3,010	3,960	2,160		5,000
Selenium	4.4	4.4 R	4.4 R	4.4 UJ	4.4 R	4.4 UJ	8.5	5
Silver	0.4	0.4	0.4	0.9	1.2	0.9	10	10
Sodium	—	34,000	60,200	41,100	49,200 J	46,700		5,000
Thallium	10.6	2.6	2.6	6.3	6.3	6.3	40	10
Vanadium	—	0.8	2.4	1.1	1.1	7.0		50
Zinc	13.9	0.6 UJ	3.4	0.7 UJ	0.7	0.7	86	20
Inorganics - Metals and Cyanide (Total)								
Aluminum	—	25.8	9,250 J	55.3	55.3	55.3		
Antimony	3.7	3.7	3.7 UJ	4.6	6.7	3.9		
Arsenic	2.9	2.9	11.1 J	5.4	5.4 R	19.4		
Barium	50.9	42.6	112 J	48.9	50.7	39.7		
Beryllium	0.1	0.1	0.7	0.2	0.2	0.2		
Cadmium	0.2	0.2	0.5	0.7	0.3	0.3		
Calcium	—	86,700	153,000 J	89,900	89,400	110,000		
Chromium	1.7	0.8	12.7 J	1.5 UJ	2.6	1.7		
Cobalt	—	0.4	7.8	0.6	0.6	0.6		
Copper	1.9	3.2	22.0 J	1.2	1.2	1.2		
Cyanide	3.0	3.0	0.6	0.5	0.5	0.5	10	10
Iron	49.5	83.8	17,800 J	63.6	82.8	39.0		
Lead	1.5	1.5	17.3 J	2.4	2.4	2.4 UJ		
Magnesium	—	23,900	38,900 J	26,900	27,300	32,500		
Manganese	—	6.5	685 J	7.1	12.2	6.7		
Mercury	0.1	0.1	0.1	0.1	0.1	0.100		
Nickel	0.7	0.7	16.4 J	1.3	1.1	1.100		
Potassium	—	3,820	4,470	2,870	3,890	2,130		
Selenium	4.4 UJ	4.4 R	4.4 R	4.4 UJ	4.4 R	4.6 J		
Silver	0.4	0.4	0.4	0.9	1.1	0.9		
Sodium	—	32,800	61,800	40,900	49,400	44,900		
Thallium	5.9 J	2.6	2.6	6.3	6.3	6.3 UJ		
Vanadium	—	0.8	18.7 J	1.1	1.1	6.8		
Zinc	9.7	0.6 UJ	52.9 J	0.7 UJ	0.7	0.7		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL		
Acetone						5.0 R		
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL		
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL		

Notes:
1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a .45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Creek Surface Water Sample Location SW-52

	Sampling Event (All Results Expressed in Units of µg/l)							
	Quarterly Results							
Compound	**August-03**	**November-03**	**March-04**	**May-04**	**September-04**	**December-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]								
Aluminum	—	25.8	25.8	81.9	55.3	55.3		200
Antimony	3.7	3.7	3.7	5.5	8.8	3.9	60	60
Arsenic	4.9	2.9	2.9	5.4	5.4	20.1 J	20	10
Barium	54.2	40.7	40.7	50.7	54.3	40.4	1,000	200
Beryllium	0.1	0.1	0.1	0.3	0.2	0.2	5	5
Cadmium	0.2	0.2	0.2	1.1	0.3	0.3	5	5
Calcium	—	86,000	107,000	92,700	96,400	112,000		5,000
Chromium	2.1	0.8	1.3	1.5 UJ	3.0	1.6 J	11	10
Cobalt	—	0.4	0.4	0.6	0.6	0.6		50
Copper	2.3	3.7	2.0	1.5	1.2	1.2	25	25
Iron	14.1	14.1	14.1	52.3	9.1	9.1	7,000	100
Lead	1.5	1.5	1.5	2.4 UJ	2.4	2.4 UJ	4.2	3
Magnesium	—	23,500	30,700	29,200	27,300	32,100		5,000
Manganese	—	5.0	1.5 J	5.1	24.0	5.0		15
Mercury	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	1.1	0.7	0.7	2.1	1.1	1.1	96	40
Potassium	—	3,720	1,900	3,260	3,600	2,100		5,000
Selenium	4.4	4.4 R	4.4 R	4.4 UJ	4.4 R	4.4 UJ	8.5	5
Silver	0.4	0.4	0.4	0.9	1.5	0.9	10	10
Sodium	—	32,900	61,400	39,400	49,600 J	49,700		5,000
Thallium	6.2 J	2.6	2.6	6.3	6.3	6.3	40	10
Vanadium	—	0.8	1.9	1.1	1.1	8.0		50
Zinc	26.5	1.5 J	4.5	0.7 UJ	0.7	0.7	86	20
Inorganics - Metals and Cyanide (Total)								
Aluminum	—	25.8	26.8 J	100	55.3	55.3		
Antimony	3.7	3.7	3.7 UJ	3.9	3.9	4.6		
Arsenic	2.9	2.9	2.9	5.4	5.4 R	20.1		
Barium	54.4	41.2	41.7 J	51.6	53.3	42.3		
Beryllium	0.1	0.1	0.1	0.2	0.2	0.2		
Cadmium	0.2	0.2	0.2	1.1	0.3	0.3		
Calcium	—	84,800	108,000 J	98,900	98,000	10,900		
Chromium	1.5	0.8	1.7 J	1.5 UJ	3.0	1.9		
Cobalt	—	0.4	0.5	0.6	0.6	0.6		
Copper	1.7	3.3	3.2 J	1.2	1.2	1.2		
Cyanide	3.0	3.0	0.5 J	0.5	0.5	0.5	10	10
Iron	45.9	79.6	67.8 J	81.7	88.8	55.9		
Lead	1.5	1.5	1.5	2.4	2.4	2.4 UJ		
Mangesium	—	23,300	31,100 J	29,700	26,200	31,100		
Manganese	—	6.8	3.2 J	9.8	28.1	7.3		
Mercury	0.1	0.1	0.1 J	0.1	0.1	0.1		
Nickel	0.7	0.7	1.1 J	1.4	1.1	1.1		
Potassium	—	3,710	1,900	2,940	3,700	2,210		
Selenium	4.4 UJ	4.4 R	4.4 R	4.4 UJ	4.4 R	4.4 UJ		
Silver	0.4	0.4	0.6	0.9	1.2	0.9		
Sodium	—	32,800	61,200	40,000	51,100	50,300		
Thallium	6.0 J	2.6	2.6	10.2 J	6.3	6.3 UJ		
Vanadium	—	0.8	2.2 J	1.1	1.1	6.9		
Zinc	8.7	0.6 UJ	0.6	0.7 UJ	0.7	0.7		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL		
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL		
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL		

Notes:
1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a .45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Outfall Surface Water Run Off Location SWD-1

	Sampling Event (All Results Expressed in Units of µg/l)							
	Quarterly Results							
Compound	**August-03**	**November-03**	**March-04**	**May-04**	**September-04**	**December-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]		Location is Dry	Location is Dry	Location is Dry	Location is Dry	Location is Dry		
Antimony	3.7	—	—	—	—	—	**60**	60
Arsenic	2.9	—	—	—	—	—	**10**	10
Barium	20.8	—	—	—	—	—	**1,000**	200
Beryllium	0.1	—	—	—	—	—	**5**	5
Cadmium	0.2	—	—	—	—	—	**5**	5
Chromium	0.8	—	—	—	—	—	**11**	10
Copper	5.1	—	—	—	—	—	**25**	25
Iron	14.1	—	—	—	—	—	**5,000**	100
Lead	1.5	—	—	—	—	—	**4.2**	3
Mercury	0.1	—	—	—	—	—	**0.2**	0.2
Nickel	1.5	—	—	—	—	—	**96**	40
Selenium	4.4	—	—	—	—	—	**5**	5
Silver	0.4	—	—	—	—	—	**10**	10
Thallium	2.6	—	—	—	—	—	**40**	10
Zinc	48.0 J	—	—	—	—	—	**86**	20
Inorganics - Metals and Cyanide (Total)								
Antimony	3.7	—	—	—	—	—		
Arsenic	2.9	—	—	—	—	—		
Barium	21.7	—	—	—	—	—		
Beryllium	0.1	—	—	—	—	—		
Cadmium	0.2	—	—	—	—	—		
Chromium	0.8	—	—	—	—	—		
Copper	24.0	—	—	—	—	—		
Cyanide	3.0	—	—	—	—	—	**10**	10
Iron	72.2	—	—	—	—	—		
Lead	1.5	—	—	—	—	—		
Mercury	0.1	—	—	—	—	—		
Nickel	1.4	—	—	—	—	—		
Selenium	4.4 UJ	—	—	—	—	—		
Silver	0.4	—	—	—	—	—		
Thallium	2.6 UJ	—	—	—	—	—		
Zinc	91.1 J	—	—	—	—	—		
Volatile Organic Compounds (VOCs)	BRL	—	—	—	—	—		
Semi-Volatile Organic Compounds (SVOCs)	BRL	—	—	—	—	—		
Pesticides / PCBs	BRL	—	—	—	—	—		

Notes:
1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = No Sample Available (location is dry)
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a .45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Outfall Surface Water Run Off Location SWD-2

	Sampling Event (All Results Expressed in Units of µg/l)							
	Quarterly Results							
Compound	**August-03**	**November-03**	**March-04**	**May-05**	**September-04**	**December-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]		Location is Dry	Location is Dry	Location is Dry	Location is Dry			
Aluminum	—	—	—	—	—	55.3		200
Antimony	3.7	—	—	—	—	3.9	60	60
Arsenic	2.9	—	—	—	—	37.4	20	10
Barium	29.1	—	—	—	—	9.5	1,000	200
Beryllium	0.1	—	—	—	—	0.2	5	5
Cadmium	0.2	—	—	—	—	0.3	5	5
Calcium	—	—	—	—	—	202,000 J		5,000
Chromium	0.8	—	—	—	—	2.8	11	10
Cobalt	—	—	—	—	—	0.6		50
Copper	1.2	—	—	—	—	1.2	25	25
Iron	14.1	—	—	—	—	14.3	7,000	100
Lead	1.5	—	—	—	—	2.4	4.2	3
Magnesium	—	—	—	—	—	66,900		5,000
Manganese	—	—	—	—	—	0.6		15
Mercury	0.1	—	—	—	—	0.1 UJ	0.2	0.2
Nickel	2.3	—	—	—	—	3.5	96	40
Potassium	—	—	—	—	—	3,970		5,000
Selenium	4.4	—	—	—	—	4.4	8.5	5
Silver	0.4	—	—	—	—	0.9	10	10
Sodium	—	—	—	—	—	6,580		5,000
Thallium	2.6	—	—	—	—	6.3	40	10
Vanadium	—	—	—	—	—	7.6		50
Zinc	23.6 J	—	—	—	—	0.7	86	20
Inorganics - Metals and Cyanide (Total)								
Aluminum	—	—	—	—	—	55.3		
Antimony	4.0	—	—	—	—	3.9		
Arsenic	2.9	—	—	—	—	38.7		
Barium	28.4	—	—	—	—	9.9		
Beryllium	0.1	—	—	—	—	0.2		
Cadmium	0.2	—	—	—	—	0.3		
Calcium	—	—	—	—	—	209,000 J		
Chromium	0.8	—	—	—	—	2.8		
Cobalt	—	—	—	—	—	0.6		
Copper	11.7	—	—	—	—	1.2		
Cyanide	3.0	—	—	—	—	0.6	10	10
Iron	17.4	—	—	—	—	31.3		
Lead	1.5	—	—	—	—	2.4		
Magnesium	—	—	—	—	—	67,900		
Manganese	—	—	—	—	—	2.8		
Mercury	0.1	—	—	—	—	0.1 UJ		
Nickel	2.4	—	—	—	—	1.1		
Potassium	—	—	—	—	—	4,010		
Selenium	4.4 UJ	—	—	—	—	4.4		
Silver	0.4	—	—	—	—	0.9		
Sodium	—	—	—	—	—	5,360		
Thallium	2.6 UJ	—	—	—	—	6.3		
Vanadium	—	—	—	—	—	6.7		
Zinc	30.0 J	—	—	—	—	0.7		
Volatile Organic Compounds (VOCs)	BRL	—	—	—	—	BRL		
Semi-Volatile Organic Compounds (SVOCs)	BRL	—	—	—	—	BRL		
Pesticides / PCBs	BRL	—	—	—	—	BRL		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = No Sample Available (location is dry)
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a .45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Outfall Surface Water Run Off Location SWD-3

	Sampling Event (All Results Expressed in Units of µg/l)							
	Quarterly Results							
Compound	**August-03**	**November-03**	**March-04**	**May-04**	**September-04**	**December-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]					Location is Dry			
Aluminum	—	98.7	34.6	55.3	—	55.3 U		200
Antimony	3.7	3.7	3.7	3.9	—	3.9	**60**	60
Arsenic	2.9	2.9	5.3	5.4	—	**30.2**	**20**	10
Barium	19.1	40.1	29.8	32.7	—	31.1	**1,000**	200
Beryllium	0.1	0.1	0.2	0.2	—	0.2	**5**	5
Cadmium	0.2	0.2	0.2	0.3	—	0.3	**5**	5
Calcium	—	130,000	125,000	107,000	—	131,000 J		5,000
Chromium	0.8	1.4	0.8	1.5	—	2.2	**11**	10
Cobalt	—	0.4	0.4	0.6	—	0.9		50
Copper	1.2	10.4	4.6 J	1.2	—	2.8	**25**	25
Iron	14.1	59.0	17.2	22.2	—	17.8	**7,000**	100
Lead	1.5	1.5	1.5	2.4	—	2.4	**4.2**	3
Magnesium	—	28,500	30,400	27,800	—	26,100		5,000
Manganese	—	10.9	3.0	77.2	—	4.3		15
Mercury	0.1	0.1 UJ	0.1	0.1	—	0.1 UJ	**0.2**	0.2
Nickel	1.1	0.7	1.4	1.2	—	2.1	**96**	40
Potassium	—	3,870	3,570	4,200	—	3,390		5,000
Selenium	4.4	4.4	4.4 UJ	4.4 R	—	4.4	**8.5**	5
Silver	0.4	0.4	0.4	0.9	—	0.9	**10**	10
Sodium	—	11,100	12,200	14,800	—	10,300		5,000
Thallium	2.6	2.6	2.6	6.3	—	6.3	**40**	10
Vanadium	—	2.2	0.8	1.1	—	4.0		50
Zinc	19.0 J	**91.6 J**	0.6 UJ	0.7	—	27.0	**86**	20
Inorganics - Metals and Cyanide (Total)								
Aluminum	—	177	1,800	199	—	55.3		
Antimony	3.7	3.7	5.2	3.9	—	3.9		
Arsenic	2.9	2.9	2.9	5.4	—	25.5		
Barium	29.0	37.0	40.0	33.1	—	32.8		
Beryllium	0.1	0.1	0.2	0.2	—	0.2		
Cadmium	0.2	0.2	0.2	0.3	—	0.3		
Calcium	—	12,100	131,000	108,000	—	135,000 J		
Chromium	0.8	1.0	1.4	1.5	—	1.5		
Cobalt	—	0.4	1.5	0.6	—	0.6		
Copper	8.6	14.8	11.0 J	1.2	—	7.8		
Cyanide	3.0	3.0	0.8	0.8	—	0.5	**10**	10
Iron	3,360	155	2,200	258	—	67.8		
Lead	1.5	1.5	1.5	2.4	—	2.4		
Magnesium	—	26,600	31,600	28,700	—	27,400		
Manganese	—	16.5	87.5	87.9	—	3.2		
Mercury	0.1	0.1 UJ	0.1	0.1	—	0.1 UJ		
Nickel	4.2	0.7	2.5	1.2	—	1.1		
Potassium	—	3,560	4,170	4,100	—	3,450		
Selenium	4.4 UJ	4.4	4.4 R	4.4 UJ	—	4.4		
Silver	0.4	0.4	0.4	0.9	—	0.9		
Sodium	—	10,300	12,600	14,100	—	10,400		
Thallium	2.6 UJ	2.6	2.6	6.3	—	6.3		
Vanadium	—	0.8	2.2	1.1	—	4.7		
Zinc	42.9 J	32.6 J	14.6 J	1.3	—	7.3		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	—	BRL		
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	—	BRL		
Pesticides / PCBs	BRL	BRL	BRL	BRL	—	BRL		

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a .45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

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APPENDIX C

LABORATORY DATA VALIDATION REPORT

APPENDIX C

EarthTech
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DATA VALIDATION REPORT

FOR

SKINNER LANDFILL SITE

EARTH TECH: PROJECT NUMBER 54280

LABORATORY REPORT NUMBER 204120320

PROJECT MANAGER: Ron Rolker

Date: May 10, 2005

Revised Report Dated: September 6, 2005

Data Validator: Mark Kromis

LIST OF ACRONYMS

BFB	Bromofluorobenzene
CC	Continuing Calibration
CCV	Continuing Calibration Verification
CCB	Continuing Calibration Blanks
CLP	Contract Laboratory Program
CRDL	Contract Required Detection Limit
DFTPP	Decafluorotriphenylphosphine
GC/MS	Gas Chromatograph/Mass Spectrometer
IC	Initial Calibration
ICB	Initial Calibration Blank
IDL	Instrument Detection Limit
ICP	Inductively Coupled Plasma
ICS	Interference Check Sample
ICV	Initial Calibration Verification
ILM	Inorganic Analysis Multi-Media Multi-Concentration
INDAM	Individual A Mixture
INDBM	Individual B Mixture
mg/L	milligrams per liter
MS/MSD	Matrix Spike/Matrix Spike Duplicate
OLC	Organic Analysis Low Concentration
OLM	Organic Analysis Multi-Media Multi-Concentration
%D	Percent Difference
% RSD	Percent Relative Standard Deviation
PB	Preparation Blanks
QC	Quality Control
RF	Response Factor
RPD	Relative Percent Difference
RRF	Relative Response Factor
SDG	Sample Delivery Group
SOW	Statement of Work
µg/L	micrograms per liter
US EPA	United States Environmental Protection Agency
VOC	Volatile Organic Compounds
VTSR	Validated Time of Sample Receipt

CASE NARRATIVE

The Inorganic portion of this report was revised do to the submission of additional data for the metals that were not reported by GCAL in the original data package. The following metals were included in the resubmission: Aluminum, Calcium, Cobalt, Magnesium, Manganese, Potassium, Sodium, and Vanadium.

GCAL reported detectable concentrations for the pesticide Endosulfan sulfate when the results should have been as non-detected. GCAL submitted corrected pages for samples SKSWD021010, SKSWD031010, and SKSWD03FD1010 with the resubmitted analytical results.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204120320 INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in December 2004, was conducted by Earth Tech using the National Functional Guidelines for Inorganic Data Review, (US EPA, February, 1994), as appropriate. The results were reported by GCAL under Sample Delivery Group (SDG) 204120320.

GCAL #	Sample Description
20412032001	SKSWD021010
20412032002	SKSWD031010
20412032003	SKSWD03FD1010
20412032006	SKSWD03FB1010
20412032007	SKSWD021010 (DISS)
20412032008	SKSWD031010 (DISS)
20412032009	SKSWD03FD1010

INTRODUCTION

Analyses of metals were performed according to Contract Laboratory Program (CLP)-Inorganic Analysis Multi-media Multi-concentration ILM04.1 Statement of Work (SOW). Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values maybe used without reservation. The laboratory to denote specific information regarding the analytical results uses various qualifier codes. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the inorganics data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Calibration
   A. Initial Calibration (IC)
   B. Continuing Calibration (CC)
3. Blanks
4. Inductively Coupled Plasma (ICP) Interference Check Sample
5. Laboratory Control Sample (LCS)
6. Duplicate Analysis
7. Spike Sample Analysis
8. ICP Serial Dilution
9. System Performance
10. Documentation
11. Overall Assessment

1. HOLDING TIMES

All samples for inorganics analyses were analyzed within the 180-day holding time for preserved aqueous samples. Mercury analyses were conducted within the 28-day holding time for aqueous samples undergoing CLP protocol. Cyanide analyses were conducted within the 14-day holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. CALIBRATION

A. Initial Calibration

The percent recoveries for the Initial Calibration Verification (ICV) standard were within Quality Control (QC) limits for all constituents.

B. Continuing Calibration

The percent recoveries for the Continuing Calibration Verification (CCV) standard were within QC limits for all constituents.

3. BLANKS

The Initial Calibration Blank (ICB), Continuing Calibration Blanks (CCB) and Preparation Blanks (PB) were analyzed at the appropriate frequencies. No constituents were detected in the ICB, CCB, and PB blanks above the corresponding Contract Required Detection Limit (CRDL).

4. ICP INTERFERENCE CHECK SAMPLE

Results for the ICP analysis of the Interference Check Sample (ICS) solution AB were within 20% of the true value.

5. LABORATORY CONTROL SAMPLES

Recoveries were within the control limit (80-120%) for all constituents.

6. DUPLICATE ANALYSIS

The laboratory used sample SKSWD021010 for the duplicate sample. The Relative Percent Difference (RPD) between the sample and duplicate results for the total and dissolved fractions were within the acceptance criteria (<20%) for all target compounds.

7. SPIKE SAMPLE ANALYSIS

The laboratory used sample SKSWD021010 for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75%-125%).

8. ICP SERIAL DILUTION

As noted in the National Functional Guidelines: If the analyte concentration is at least 50 times above the IDL, its serial dilution analysis must then agree within 10% of the original determination after corrected for dilution. The serial dilution is performed to determine whether any significant chemical or physical interference's exist due to matrix effects. The serial dilution percent differences were within the acceptance criteria for all target analytes with the exception of Calcium. As per the National Functional Guidelines, if the 10% difference criteria are not met, qualify the associated data as estimated with a "J".

9. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

10. DOCUMENTATION

The documentation appeared accurate and in order.

11. OVERALL ASSESSMENT

The percent recoveries for Lead in the Contract Required Detection Limit (CRDL) standards were 120.8%, and 112.5%.

The percent recoveries for Selenium in the Contract Required Detection Limit (CRDL) standards were 148.5%, and 127.6%.

If the CRDL is greater than 120% then detected results greater than the IDL but less than two times the CRDL are qualified as estimated with "J". If the CRDL is below 80% then detected results are qualified as estimated with "J" and the non-detected results were qualified with "UJ".

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204120320 SEMIVOLATILE ORGANICS

Validation of the Gas Chromatograph/Mass Spectrometer (GC/MS) semi-volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in December 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999) as appropriate. The results were reported by GCAL under SDG 204120320.

GCAL #	Sample Description
20412032001	SKSWD021010
20412032002	SKSWD031010
20412032003	SKSWD03FD1010

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. The laboratory to denote specific information regarding the analytical results uses various data qualifier codes. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U — The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J — The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ — The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R — The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the semivolatile data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Internal Standards Performance
8. Compound Identification
9. Constituent Quantitation and Reported Detection Limits
10. System Performance
11. Documentation
12. Overall Assessment

1. HOLDING TIMES

All samples were initially extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/MS TUNING

The samples were analyzed on a single GC/MS system, identified as MSSV3. One decafluorotriphenylphosphine (DFTPP) tune was run representing the shift in which the standards and samples were analyzed. The DFTPP tune is acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 12/22/04 was analyzed in support of the semivolatile sample analyses. Documentation of the IC was present in the data package, and the Relative Response Factor (RRF), as well as percent % RSD values were accurately reported for all target compounds. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all semi-volatile compounds. The RRF's and the average RRF were within the acceptance criteria specified in the method for all reported analytes with the exception of 4-Chloroaniline. The %RSD's were within the acceptance criteria specified in the method for all target analytes with the exception of Hexachlorocyclopentadiene (38.7%), 2,4-Dinitrophenol (32.6%), and Diethylphthalate (33.6%). The lowest point of the calibration curve was dropped for Hexachlorocyclopentadiene and Diethylphthalate and the %RSD were recalculated. The recalculated %RSD were within the acceptance criteria of less than 30%. Hexachlorocyclopentadiene and Diethylphthalate were not detected in the associated samples therefore data qualification was not required.

As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R). It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds. If the %RSD is greater than 30.0% and the RRF is greater than 0.05, then qualify positive results with "J", and non-detected semivolatile target compounds using professional judgment.

B. Continuing Calibration

One CC dated 12/22/04 was analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRF's for the CC's were within the acceptance criteria with the exception of 4-Chloroaniline. The percent difference (%D) between the average RRF's and the CC Response Factors for the CC dated 12/22/04 were within the acceptance criteria with the exception of 2,4-Dinitrophenol (34.7%) and 4-Nitrophenol (25.5%). As per the National Functional Guidelines, if the %D is greater than the acceptance limits then qualify positive results with "J" and non-detected results with "UJ".

4. BLANKS

One laboratory semivolatile method blank was analyzed with this SDG. The results are summarized below.

<u>Method Blank (214659SBLK)</u>

Di-n-butyl phthalate (0.620 ppb) and bis (2-ethylhexyl) phthalate (0.738 ppb) were detected in the blank extracted on 12/27/04.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported semivolatile system monitoring compounds (SMC) were recovered within acceptable control limits with the exception of 2,4,6-Tribromophenol. No action was taken because only one SMC was outside of the control limits.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

There was no MS/MSD sample submitted with this group of samples.

7. INTERNAL STANDARDS PERFORMANCE

Internal standard areas and retention times were within acceptable limits for the reported semivolatile sample analyses.

8. COMPOUND IDENTIFICATION

All reported semivolatile constituents were correctly identified with supporting chromatograms present in the data package.

9. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for semivolatile constituents.

10. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data submitted for review.

11. DOCUMENTATION

The documentation appeared accurate and in order.

12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204120320
VOLATILE ORGANIC

Validation of the GC/MS volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in December 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204120320.

GCAL #	Sample Description
20412032001	SKSWD021010
20412032002	SKSWD031010
20412032003	SKSWD03FD1010
20412032006	SKSWD03FB1010
20412032009	SKSWD03FD1010
20412032010	VHBLK

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Low Concentration OLC02.0 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. The laboratory to denote specific information regarding the analytical results uses various qualifier codes. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The volatiles data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Laboratory Control Sample
8. Internal Standards Performance
9. Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. System Performance
12. Documentation
13. Overall Assessment

1. HOLDING TIMES

All samples for Volatile Organic Compounds (VOC) analyses were analyzed within the 14-day technical holding time and the 10-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/MS TUNING

The samples were analyzed on one GC/MS system, identified as MSV0. Two bromofluorobenzene (BFB) tunes were run. The BFB tunes are acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 12/04/04 was analyzed on instrument MSV0 in support of the volatile sample analyses reported in the data submissions. Documentation of the IC standards is present in the data package, and RRF's as well as %RSD values were accurately reported. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all volatile compounds. The %RSD's were within the acceptance criteria specified in the method for all target analytes.

B. Continuing Calibration

Two CC's dated 12/4/04 and 12/5/04 were analyzed on instrument MSV0 in support of the volatile sample analyses reported in the data submissions. The percent difference (%D) between the average RRF's and the CC RF's were within the acceptance criteria for all target analytes. The CC RRF's were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone and 2-Butanone associated with both CC's. The Acetone and 2-Butanone results were previously qualified under section 3A above.

4. BLANKS

Two laboratory volatile method blanks, storage blank, and Field Blank were analyzed with this SDG. The results are summarized below.

<u>MB209762</u>

There were no target analytes detected in the method blank analyzed on 12/4/04.

<u>MB209763</u>

There were no target analytes detected in the method blank analyzed on 12/504.

<u>Storage Blank (VHBLK01)</u>

There were no target analytes detected in the storage blank analyzed on 12/5/04.

<u>Field Blank (SKSWD03FB1010)</u>

Chloroform (0.17 ppb) was detected in the Field Blank collected on 12/2/04.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported volatile system monitoring compounds were recovered within acceptable control limits (80%-120%) for all samples with the exception of BFB associated with sample SKSWD03FB1010 (79%). As per the National Functional Guidelines, if the SMC is below the acceptance limit then qualify positive results with "J" and non-detected results with "UJ".

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSW501011 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria.

7. LABORATORY CONTROL SAMPLE

A LCS/LCS duplicate and a LCS were analyzed in conjunction with this SDG. Recoveries were within the control limit for all constituents.

8. INTERNAL STANDARDS PERFORMANCE

Internal Standard (IS) areas and retention times were within acceptable limits for the reported volatile sample analyses.

9. COMPOUND IDENTIFICATION

All reported VOCs were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for VOCs.

11. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

12. DOCUMENTATION

The documentation appeared accurate and in order.

13. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY - SAMPLE DELIVERY GROUP 204120320 PESTICIDES

Validation of the Gas Chromatography (GC) pesticides data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in December 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204120320.

GCAL #	Sample Description
20412032001	SKSWD021010
20412032002	SKSWD031010
20412032003	SKSWD03FD1010

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U — The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J — The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ — The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the pesticide data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Gas Chromatograph/Electronic Capture Detector (GC/ECD) Instrument Performance Check
3. IC
4. Calibration Verification
5. Blanks
6. Surrogate Spikes
7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)
8. Pesticide Cleanup Checks
9. Target Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. Documentation
12. Overall Assessment

1. HOLDING TIMES

All samples were extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/ECD INSTRUMENT PERFORMANCE CHECK

The Performance Evaluation Mixture (PEM) was analyzed at the correct frequency. Absolute retention times were within limits.

The percent resolution between adjacent peaks was within QC limits for the Pesticide Analyte Resolution Check.

The percent resolution between adjacent peaks is within QC limits for the Performance Evaluation Mixtures (PEM). The percent breakdown for both 4,4-DDT and Endrin in each PEM was less than 20.0% for both GC columns. The combined percent breakdown for 4,4-DDT and Endrin in each PEM was less than 30.0% for both GC columns.

3. INITIAL CALIBRATION

Individual standard mixtures A and B were analyzed at the correct frequencies and concentrations. The percent resolution criterion was met for Individual standard mixtures A and B.

The Percent Relative Standard Deviation (%RSD) of the calibration factors for each of the single component pesticides was less than 20%. The multi-component target compounds were analyzed separately on both columns at a single concentration level. Retention times were determined from a minimum of three peaks.

4. CALIBRATION VERIFICATION

Absolute retention times were within appropriate time retention windows. The percent difference for each of the pesticides and surrogates in the midpoint concentration of the Individual Standard Mixtures A and B was within the acceptance criteria of ±25.0 percent

5. BLANKS

One laboratory method blank was analyzed with this SDG. The results are summarized below.

<u>Method Blank 210121</u>

No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 12/6/04.

6. SURROGATE SPIKES

Decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCX) surrogate spike recoveries were within the acceptance criteria for all samples.

7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

There was no MS/MSD sample submitted with this group of samples.

8. PESTICIDE CLEANUP CHECKS

Recoveries of all pesticides and surrogates were within 80-120% for the lot of Florisil cartridges utilized for pesticide cleanup.

9. TARGET COMPOUND IDENTIFICATION

All reported pesticide data were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for pesticide constituents with the exception of Endosulfan sulfate associated with samples SKSWD021010, SKSWD031010, and SKSWD03FD1010. GCAL reported detectable concentrations for the analyte Endosulfan sulfate when the results should have been as non-detected. The data validator contacted GCAL concerning the issue and GCAL resubmitted corrected pages for samples SKSWD021010, SKSWD031010, and SKSWD03FD1010.

11. DOCUMENTATION

The documentation appeared accurate and in order.

12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

REFERENCES

US EPA, 1994. *National Functional Guidelines for Inorganic Data Review.*

US EPA, 1999. *National Functional Guidelines for Organic Data Review.*

DATA VALIDATION REPORT

FOR

SKINNER LANDFILL SITE

EARTH TECH: PROJECT NUMBER 54280

LABORATORY REPORT NUMBER 204120320

PROJECT MANAGER: Ron Rolker

Date: May 10, 2005

Data Validator: Mark Kromis

use report dated 9/3/05 MSK

LIST OF ACRONYMS

BFB	Bromofluorobenzene
CC	Continuing Calibration
CCV	Continuing Calibration Verification
CCB	Continuing Calibration Blanks
CLP	Contract Laboratory Program
CRDL	Contract Required Detection Limit
DFTPP	Decafluorotriphenylphosphine
GC/MS	Gas Chromatograph/Mass Spectrometer
IC	Initial Calibration
ICB	Initial Calibration Blank
IDL	Instrument Detection Limit
ICP	Inductively Coupled Plasma
ICS	Interference Check Sample
ICV	Initial Calibration Verification
ILM	Inorganic Analysis Multi-Media Multi-Concentration
INDAM	Individual A Mixture
INDBM	Individual B Mixture
mg/L	milligrams per liter
MS/MSD	Matrix Spike/Matrix Spike Duplicate
OLC	Organic Analysis Low Concentration
OLM	Organic Analysis Multi-Media Multi-Concentration
%D	Percent Difference
% RSD	Percent Relative Standard Deviation
PB	Preparation Blanks
QC	Quality Control
RF	Response Factor
RPD	Relative Percent Difference
RRF	Relative Response Factor
SDG	Sample Delivery Group
SOW	Statement of Work
µg/L	micrograms per liter
US EPA	United States Environmental Protection Agency
VOC	Volatile Organic Compounds
VTSR	Validated Time of Sample Receipt

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204120320 INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in December 2004, was conducted by Earth Tech using the National Functional Guidelines for Inorganic Data Review, (US EPA, February, 1994), as appropriate. The results were reported by GCAL under Sample Delivery Group (SDG) 204120320.

GCAL #	Sample Description
20412032001	SKSWD021010
20412032002	SKSWD031010
20412032003	SKSWD03FD1010
20412032006	SKSWD03FB1010
20412032007	SKSWD021010 (DISS)
20412032008	SKSWD031010 (DISS)
20412032009	SKSWD03FD1010

INTRODUCTION

Analyses of metals were performed according to Contract Laboratory Program (CLP)-Inorganic Analysis Multi-media Multi-concentration ILM04.1 Statement of Work (SOW). Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values maybe used without reservation. The laboratory to denote specific information regarding the analytical results uses various qualifier codes. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the inorganics data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Calibration
   A. Initial Calibration (IC)
   B. Continuing Calibration (CC)
3. Blanks
4. Inductively Coupled Plasma (ICP) Interference Check Sample
5. Laboratory Control Sample (LCS)
6. Duplicate Analysis
7. Spike Sample Analysis
8. ICP Serial Dilution
9. System Performance
10. Documentation
11. Overall Assessment

1. HOLDING TIMES

All samples for inorganics analyses were analyzed within the 180-day holding time for preserved aqueous samples. Mercury analyses were conducted within the 28-day holding time for aqueous samples undergoing CLP protocol. Cyanide analyses were conducted within the 14-day holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. CALIBRATION

A. Initial Calibration

The percent recoveries for the Initial Calibration Verification (ICV) standard were within Quality Control (QC) limits for all constituents.

B. Continuing Calibration

The percent recoveries for the Continuing Calibration Verification (CCV) standard were within QC limits for all constituents.

3. BLANKS

The Initial Calibration Blank (ICB), Continuing Calibration Blanks (CCB) and Preparation Blanks (PB) were analyzed at the appropriate frequencies. No constituents were detected in the ICB, CCB, and PB blanks above the corresponding Contract Required Detection Limit (CRDL).

4. ICP INTERFERENCE CHECK SAMPLE

Results for the ICP analysis of the Interference Check Sample (ICS) solution AB were within 20% of the true value.

5. LABORATORY CONTROL SAMPLES

Recoveries were within the control limit (80-120%) for all constituents.

6. DUPLICATE ANALYSIS

The laboratory used sample SKSWD021010 for the duplicate sample. The Relative Percent Difference (RPD) between the sample and duplicate results for the total and dissolved fractions were within the acceptance criteria (<20%) for all target compounds.

7. SPIKE SAMPLE ANALYSIS

The laboratory used sample SKSWD021010 for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75%-125%).

8. ICP SERIAL DILUTION

As noted in the National Functional Guidelines: If the analyte concentration is at least 50 times above the IDL, its serial dilution analysis must then agree within 10% of the original determination after corrected for dilution. The serial dilution is performed to determine whether any significant chemical or physical interference's exist due to matrix effects. The serial dilution percent differences were within the acceptance criteria for all target analytes with the exception of Calcium. As per the National Functional Guidelines, if the 10% difference criteria are not met, qualify the associated data as estimated with a "J".

9. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

10. DOCUMENTATION

The documentation appeared accurate and in order.

11. OVERALL ASSESSMENT

The percent recoveries for Lead in the Contract Required Detection Limit (CRDL) standards were 120.8%, and 112.5%.

The percent recoveries for Mercury in the Contract Required Detection Limit (CRDL) standards were 68.6%.

The percent recoveries for Selenium in the Contract Required Detection Limit (CRDL) standards were 148.5%, and 127.6%.

If the CRDL is greater than 120% then detected results greater than the IDL but less than two times the CRDL are qualified as estimated with "J". If the CRDL is below 80% then detected results are qualified as estimated with "J" and the non-detected results were qualified with "UJ".

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204120320 SEMIVOLATILE ORGANICS

Validation of the Gas Chromatograph/Mass Spectrometer (GC/MS) semi-volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in December 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999) as appropriate. The results were reported by GCAL under SDG 204120320.

GCAL #	Sample Description
20412032001	SKSWD021010
20412032002	SKSWD031010
20412032003	SKSWD03FD1010

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. The laboratory to denote specific information regarding the analytical results uses various data qualifier codes. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the semivolatile data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Internal Standards Performance
8. Compound Identification
9. Constituent Quantitation and Reported Detection Limits
10. System Performance
11. Documentation
12. Overall Assessment

1. HOLDING TIMES

All samples were initially extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/MS TUNING

The samples were analyzed on a single GC/MS system, identified as MSSV3. One decafluorotriphenylphosphine (DFTPP) tune was run representing the shift in which the standards and samples were analyzed. The DFTPP tune is acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 12/22/04 was analyzed in support of the semivolatile sample analyses. Documentation of the IC was present in the data package, and the Relative Response Factor (RRF), as well as percent % RSD values were accurately reported for all target compounds. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all semi-volatile compounds. The RRF's and the average RRF were within the acceptance criteria specified in the method for all reported analytes with the exception of 4-Chloroaniline. The %RSD's were within the acceptance criteria specified in the method for all target analytes with the exception of Hexachlorocyclopentadiene (38.7%), 2,4-Dinitrophenol (32.6%), and Diethylphthalate (33.6%). The lowest point of the calibration curve was dropped for Hexachlorocyclopentadiene and Diethylphthalate and the %RSD were recalculated. The recalculated %RSD were within the acceptance criteria of less than 30%. Hexachlorocyclopentadiene and Diethylphthalate were not detected in the associated samples therefore data qualification was not required.

As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R). It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds. If the %RSD is greater than 30.0% and the RRF is greater than 0.05, then qualify positive results with "J", and non-detected semivolatile target compounds using professional judgment.

B. Continuing Calibration

One CC dated 12/22/04 was analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRF's for the CC's were within the acceptance criteria with the exception of 4-Chloroaniline. The percent difference (%D) between the average RRF's and the CC Response Factors for the CC dated 12/22/04 were within the acceptance criteria with the exception of 2,4-Dinitrophenol (34.7%) and 4-Nitrophenol (25.5%). As per the National Functional Guidelines, if the %D is greater than the acceptance limits then qualify positive results with "J" and non-detected results with "UJ".

4. BLANKS

One laboratory semivolatile method blank was analyzed with this SDG. The results are summarized below.

<u>Method Blank (214659SBLK)</u>

Di-n-butyl phthalate (0.620 ppb) and bis (2-ethylhexyl) phthalate (0.738 ppb) were detected in the blank extracted on 12/27/04.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported semivolatile system monitoring compounds (SMC) were recovered within acceptable control limits with the exception of 2,4,6-Tribromophenol. No action was taken because only one SMC was outside of the control limits.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

There was no MS/MSD sample submitted with this group of samples.

7. INTERNAL STANDARDS PERFORMANCE

Internal standard areas and retention times were within acceptable limits for the reported semivolatile sample analyses.

8. COMPOUND IDENTIFICATION

All reported semivolatile constituents were correctly identified with supporting chromatograms present in the data package.

9. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for semivolatile constituents.

10. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data submitted for review.

11. DOCUMENTATION

The documentation appeared accurate and in order.

12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204120320 VOLATILE ORGANIC

Validation of the GC/MS volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in December 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204120320.

GCAL #	Sample Description
20412032001	SKSWD021010
20412032002	SKSWD031010
20412032003	SKSWD03FD1010
20412032006	SKSWD03FB1010
20412032009	SKSWD03FD1010
20412032010	VHBLK

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Low Concentration OLC02.0 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. The laboratory to denote specific information regarding the analytical results uses various qualifier codes. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The volatiles data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Laboratory Control Sample
8. Internal Standards Performance
9. Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. System Performance
12. Documentation
13. Overall Assessment

1. HOLDING TIMES

All samples for Volatile Organic Compounds (VOC) analyses were analyzed within the 14-day technical holding time and the 10-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/MS TUNING

The samples were analyzed on one GC/MS system, identified as MSV0. Two bromofluorobenzene (BFB) tunes were run. The BFB tunes are acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 12/04/04 was analyzed on instrument MSV0 in support of the volatile sample analyses reported in the data submissions. Documentation of the IC standards is present in the data package, and RRF's as well as %RSD values were accurately reported. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all volatile compounds. The %RSD's were within the acceptance criteria specified in the method for all target analytes.

B. Continuing Calibration

Two CC's dated 12/4/04 and 12/5/04 were analyzed on instrument MSV0 in support of the volatile sample analyses reported in the data submissions. The percent difference (%D) between the average RRF's and the CC RF's were within the acceptance criteria for all target analytes. The CC RRF's were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone and 2-Butanone associated with both CC's. The Acetone and 2-Butanone results were previously qualified under section 3A above.

4. BLANKS

Two laboratory volatile method blanks, storage blank, and Field Blank were analyzed with this SDG. The results are summarized below.

<u>MB209762</u>

There were no target analytes detected in the method blank analyzed on 12/4/04.

<u>MB209763</u>

There were no target analytes detected in the method blank analyzed on 12/504.

<u>Storage Blank (VHBLK01)</u>

There were no target analytes detected in the storage blank analyzed on 12/5/04.

<u>Field Blank (SKSWD03FB1010)</u>

Chloroform (0.17 ppb) was detected in the Field Blank collected on 12/2/04.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported volatile system monitoring compounds were recovered within acceptable control limits (80%-120%) for all samples with the exception of BFB associated with sample SKSWD03FB1010 (79%). As per the National Functional Guidelines, if the SMC is below the acceptance limit then qualify positive results with "J" and non-detected results with "UJ".

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSW501011 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria.

7. LABORATORY CONTROL SAMPLE

A LCS/LCS duplicate and a LCS were analyzed in conjunction with this SDG. Recoveries were within the control limit for all constituents.

8. INTERNAL STANDARDS PERFORMANCE

Internal Standard (IS) areas and retention times were within acceptable limits for the reported volatile sample analyses.

9. COMPOUND IDENTIFICATION

All reported VOCs were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for VOCs.

11. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

12. DOCUMENTATION

The documentation appeared accurate and in order.

13. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY - SAMPLE DELIVERY GROUP 204120320 PESTICIDES

Validation of the Gas Chromatography (GC) pesticides data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in December 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204120320.

GCAL #	Sample Description
20412032001	SKSWD021010
20412032002	SKSWD031010
20412032003	SKSWD03FD1010

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U — The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J — The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ — The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the pesticide data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Gas Chromatograph/Electronic Capture Detector (GC/ECD) Instrument Performance Check
3. IC
4. Calibration Verification
5. Blanks
6. Surrogate Spikes
7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)
8. Pesticide Cleanup Checks
9. Target Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. Documentation
12. Overall Assessment

1. HOLDING TIMES

All samples were extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/ECD INSTRUMENT PERFORMANCE CHECK

The Performance Evaluation Mixture (PEM) was analyzed at the correct frequency. Absolute retention times were within limits.

The percent resolution between adjacent peaks was within QC limits for the Pesticide Analyte Resolution Check.

The percent resolution between adjacent peaks is within QC limits for the Performance Evaluation Mixtures (PEM). The percent breakdown for both 4,4-DDT and Endrin in each PEM was less than 20.0% for both GC columns. The combined percent breakdown for 4,4-DDT and Endrin in each PEM was less than 30.0% for both GC columns.

3. INITIAL CALIBRATION

Individual standard mixtures A and B were analyzed at the correct frequencies and concentrations. The percent resolution criterion was met for Individual standard mixtures A and B.

The Percent Relative Standard Deviation (%RSD) of the calibration factors for each of the single component pesticides was less than 20%. The multi-component target compounds were analyzed separately on both columns at a single concentration level. Retention times were determined from a minimum of three peaks.

4. CALIBRATION VERIFICATION

Absolute retention times were within appropriate time retention windows. The percent difference for each of the pesticides and surrogates in the midpoint concentration of the Individual Standard Mixtures A and B was within the acceptance criteria of ±25.0 percent

5. BLANKS

One laboratory method blank was analyzed with this SDG. The results are summarized below.

Method Blank 210121

No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 12/6/04.

6. SURROGATE SPIKES

Decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCX) surrogate spike recoveries were within the acceptance criteria for all samples.

7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

There was no MS/MSD sample submitted with this group of samples.

8. PESTICIDE CLEANUP CHECKS

Recoveries of all pesticides and surrogates were within 80-120% for the lot of Florisil cartridges utilized for pesticide cleanup.

9. TARGET COMPOUND IDENTIFICATION

All reported pesticide data were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for pesticide constituents with the exception of Endosulfan sulfate associated with samples SKSWD021010, SKSWD031010, and SKSWD03FD1010. GCAL reported detectable concentrations for the analyte Endosulfan sulfate when the results should have been as non-detected. The data validator concerning the issue and GCAL resubmitted corrected pages for samples SKSWD021010, SKSWD031010, and SKSWD03FD1010.

11. DOCUMENTATION

The documentation appeared accurate and in order.

12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

REFERENCES

US EPA, 1994. *National Functional Guidelines for Inorganic Data Review.*

US EPA, 1999. *National Functional Guidelines for Organic Data Review.*

NELAP CERTIFICATE NUMBER 019

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 01/25/2005

GCAL Report 204120320

Deliver To	Earth Tech 2373 Progress St Hebron, KY 41048 859-442-2300
Attn	Pat Higgins

Customer Earth Tech

Project Skinner Landfill

7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402 • Phone 225.769.4900 • Fax 225.767.5717

CASE NARRATIVE

Client: Earth Tech **Report:** 204120320

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

In the OLC02.1 - CLP Volatiles analysis of sample 20412032006 (SKSWD03FB1010), the recovery for the surrogate 4-Bromofluorobenzene was outside of the established control limits. The sample was reanalyzed and similar results were observed. This is attributed to a matrix interference.

SEMI-VOLATILES MASS SPECTROMETRY

In the OLM4.2 Semi-Volatiles analysis, one acid fraction surrogate is above the upper control limit in sample 20412032003 SKSWD03FD1010).

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the OLM4.2 PEST/PCB analysis for prep batch 284385, no MS/MSD was performed due to insufficient sample volume. All LCS/LCSD recoveries and RPDs were acceptable.

METALS

Dissolved Chromium was greater than total Chromium in samples 20412032002 (SKSWD031010) and 20412032008 (SKSWD031010 (DISS)). This is attributed to separate aliquots of sample.

Dissolved Nickel was greater than total Nickel in samples 20412032001(SKSWD021010) and 20412032007 (SKSWD021010 (DISS)). This is attributed to separate aliquots of sample.

Dissolved Nickel was greater than total Nickel in samples 20412032002 (SKSWD031010) and 20412032008 (SKSWD031010 (DISS)). This is attributed to separate aliquots of sample.

Dissolved Zinc was greater than total Zinc in samples 20412032002 (SKSWD031010) and 20412032008 (SKSWD031010 (DISS)). This is attributed to separate aliquots of sample.

The Sample/Duplicate RPDs for Iron and Nickel for prep batch 284876 are not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reporduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Curtis Ekker

CURTIS EKKER
DATA VALIDATION MANAGER
GCAL REPORT 204120320

THIS REPORT CONTAINS 391 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20412032001	SKSWD021010	Water	12/01/2004 13:50	12/02/2004 09:20
20412032002	SKSWD031010	Water	12/02/2004 12:00	12/03/2004 09:15
20412032003	SKSWD03FD1010	Water	12/02/2004 12:00	12/03/2004 09:15
20412032006	SKSWD03FB1010	Water	12/02/2004 12:00	12/03/2004 09:15
20412032007	SKSWD021010 (DISS)	Water	12/01/2004 13:50	12/02/2004 09:20
20412032008	SKSWD031010 (DISS)	Water	12/02/2004 12:00	12/03/2004 09:15
20412032009	SKSWD03FD1010	Water	12/02/2004 12:00	12/03/2004 09:15
20412032010	VHBLK01	Water		12/02/2004 09:20

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWD021010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204120320

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412032001

Level: (low/med) Lab File ID: 2041205/T8193

% Moisture: not dec. Date Collected: 12/01/04 Time: 1350

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/02/04

Instrument ID: MSV0 Date Analyzed: 12/05/04 Time: 1339

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 284346

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0	
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0	
78-93-3	2-Butanone	5.0	U	0.010	5.0	R
591-78-6	2-Hexanone	5.0	U	0.010	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0	
67-64-1	Acetone	5.0	U	0.010	5.0	R
71-43-2	Benzene	1.0	U	0.010	1.0	
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0	
75-25-2	Bromoform	1.0	U	0.010	1.0	
74-83-9	Bromomethane	1.0	U	0.010	1.0	
75-15-0	Carbon disulfide	1.0	U	0.010	1.0	
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0	
108-90-7	Chlorobenzene	1.0	U	0.010	1.0	
75-00-3	Chloroethane	1.0	U	0.010	1.0	
67-66-3	Chloroform	1.0	U	0.010	1.0	
74-87-3	Chloromethane	1.0	U	0.010	1.0	
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0	
100-41-4	Ethylbenzene	1.0	U	0.010	1.0	

FORM I VOA

5/10/05
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWD021010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204120320

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412032001

Level: (low/med) Lab File ID: 2041205/T8193

% Moisture: not dec. Date Collected: 12/01/04 Time: 1350

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/02/04

Instrument ID: MSV0 Date Analyzed: 12/05/04 Time: 1339

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 284346

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSWD021010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204120320

Matrix: Water Lab Sample ID: 20412032001

Sample wt/vol: Units: Lab File ID:

Level: (low/med) Date Collected: 12/01/04 Time: 1350

% Moisture: not dec. Date Received: 12/02/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/05/04 Time: 1339

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

GCAL, Inc.

Data file : /var/chem/msv0.i/2041205.s.b/t8193.d
Lab Smp Id: 20412032001 Client Smp ID: SKSWD021010
Inj Date : 05-DEC-2004 13:39
Operator : RSP Inst ID: msv0.i
Smp Info : 20412032001*SKSWD021010
Misc Info : MSV-5559-*1*RSP
Comment :
Method : /var/chem/msv0.i/2041205.s.b/clp2.1w0.m
Meth Date : 05-Dec-2004 10:03 rjo Quant Type: ISTD
Cal Date : 05-DEC-2004 10:08 Cal File: t8188.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Uf/Vo) * CpndVariable

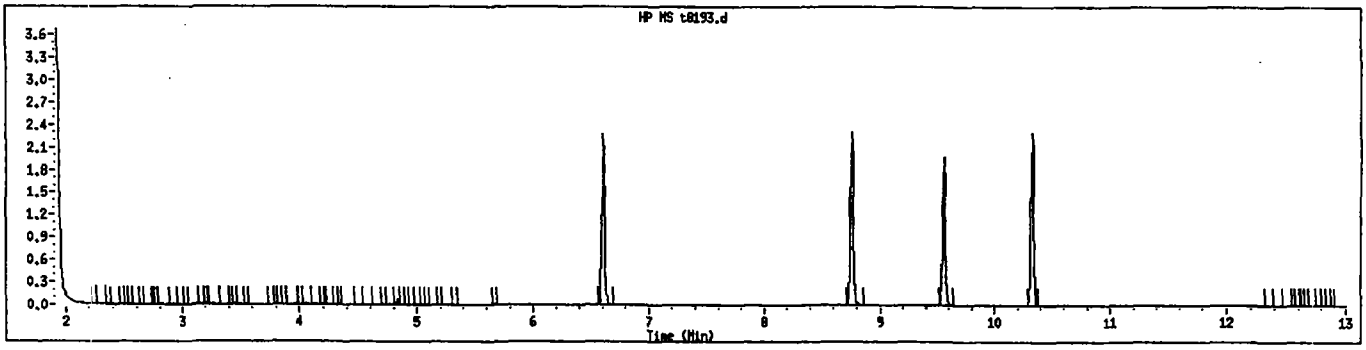
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	25.00000	ng unit correction factor
Vo	25.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 19 1,4-Difluorobenzene	114	6.605	6.601	(1.000)	136985	5.00000	
* 32 Chlorobenzene-d5	82	8.759	8.749	(1.000)	65870	5.00000	
$ 39 Bromofluorobenzene	174	9.559	9.549	(1.447)	46818	4.00375	4.0
* 42 1,4-DICHLOROBENZENE-D4	152	10.326	10.315	(1.000)	54885	5.00000	

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20412032001	SampleType	: SAMPLE
Injection Date	: 05-DEC-2004 13:39	Instrument	: msv0.i
Operator	: RSP		
Sample Info	: 20412032001*SKSWD021010		
Misc Info	: MSV~5559~*1*RSP		
Method	: /var/chem/msv0.i/2041205.s.b/clp2.1w0.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: all



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWD031010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204120320

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412032002

Level: (low/med) Lab File ID: 2041204/T8176

% Moisture: not dec. Date Collected: 12/02/04 Time: 1200

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/03/04

Instrument ID: MSV0 Date Analyzed: 12/04/04 Time: 1859

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 284340

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0	
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0	
78-93-3	2-Butanone	5.0	U	0.010	5.0	R
591-78-6	2-Hexanone	5.0	U	0.010	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0	
67-64-1	Acetone	5.0	U	0.010	5.0	R
71-43-2	Benzene	1.0	U	0.010	1.0	
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0	
75-25-2	Bromoform	1.0	U	0.010	1.0	
74-83-9	Bromomethane	1.0	U	0.010	1.0	
75-15-0	Carbon disulfide	1.0	U	0.010	1.0	
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0	
108-90-7	Chlorobenzene	1.0	U	0.010	1.0	
75-00-3	Chloroethane	1.0	U	0.010	1.0	
67-66-3	Chloroform	1.0	U	0.010	1.0	
74-87-3	Chloromethane	1.0	U	0.010	1.0	
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0	
100-41-4	Ethylbenzene	1.0	U	0.010	1.0	

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FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWD031010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204120320

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412032002

Level: (low/med) Lab File ID: 2041204/T8176

% Moisture: not dec. Date Collected: 12/02/04 Time: 1200

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/03/04

Instrument ID: MSV0 Date Analyzed: 12/04/04 Time: 1859

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 284340

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SKSWD031010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204120320

Matrix: Water Lab Sample ID: 20412032002

Sample wt/vol: Units: Lab File ID:

Level: (low/med) Date Collected: 12/02/04 Time: 1200

% Moisture: not dec. Date Received: 12/03/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/04/04 Time: 1859

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWD03FD1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204120320

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412032003

Level: (low/med) Lab File ID: 2041205/T8194

% Moisture: not dec. Date Collected: 12/02/04 Time: 1200

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/03/04

Instrument ID: MSV0 Date Analyzed: 12/05/04 Time: 1402

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 284346

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0	
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0	
78-93-3	2-Butanone	5.0	U	0.010	5.0	R
591-78-6	2-Hexanone	5.0	U	0.010	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0	
67-64-1	Acetone	5.0	U	0.010	5.0	R
71-43-2	Benzene	1.0	U	0.010	1.0	
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0	
75-25-2	Bromoform	1.0	U	0.010	1.0	
74-83-9	Bromomethane	1.0	U	0.010	1.0	
75-15-0	Carbon disulfide	1.0	U	0.010	1.0	
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0	
108-90-7	Chlorobenzene	1.0	U	0.010	1.0	
75-00-3	Chloroethane	1.0	U	0.010	1.0	
67-66-3	Chloroform	1.0	U	0.010	1.0	
74-87-3	Chloromethane	1.0	U	0.010	1.0	
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0	
100-41-4	Ethylbenzene	1.0	U	0.010	1.0	

5/9/05 MZ

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWD03FD1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204120320

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412032003

Level: (low/med) Lab File ID: 2041205/T8194

% Moisture: not dec. Date Collected: 12/02/04 Time: 1200

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/03/04

Instrument ID: MSV0 Date Analyzed: 12/05/04 Time: 1402

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 284346

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSWD03FD1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204120320

Matrix: Water Lab Sample ID: 20412032003

Sample wt/vol: Units: Lab File ID:

Level: (low/med) Date Collected: 12/02/04 Time: 1200

% Moisture: not dec. Date Received: 12/03/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/05/04 Time: 1402

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

GCAL, Inc.

Data file : /var/chem/msv0.i/2041205.s.b/t8194.d
Lab Smp Id: 20412032003 Client Smp ID: SKSWD03FD1010
Inj Date : 05-DEC-2004 14:02
Operator : RSP Inst ID: msv0.i
Smp Info : 20412032003*SKSWD03FD1010
Misc Info : MSV~5559~*1*RSP
Comment :
Method : /var/chem/msv0.i/2041205.s.b/clp2.1w0.m
Meth Date : 05-Dec-2004 10:03 rjo Quant Type: ISTD
Cal Date : 05-DEC-2004 10:08 Cal File: t8188.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Vo) * CpndVariable

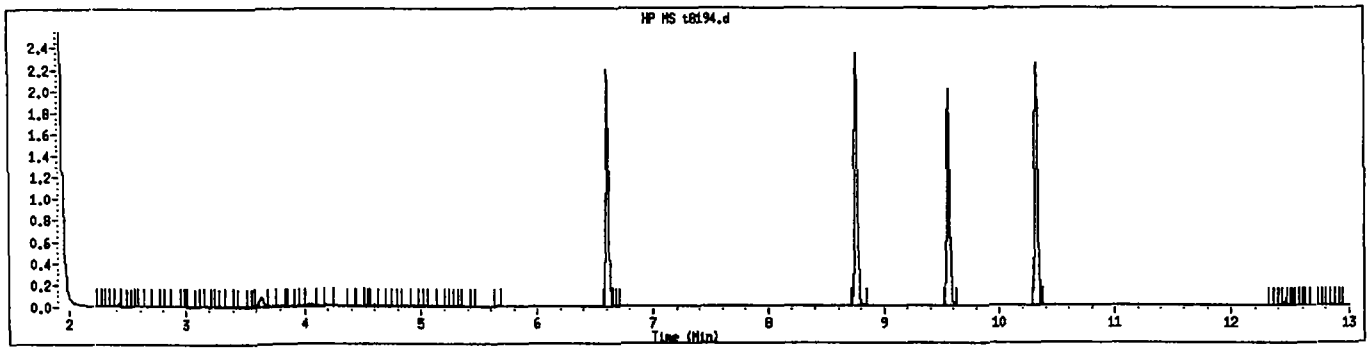
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	25.00000	ng unit correction factor
Vo	25.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 19 1,4-Difluorobenzene	114	6.604	6.601	(1.000)	135596	5.00000	
* 32 Chlorobenzene-d5	82	8.759	8.749	(1.000)	68145	5.00000	
$ 39 Bromofluorobenzene	174	9.558	9.549	(1.447)	48071	4.15301	4.2
* 42 1,4-DICHLOROBENZENE-D4	152	10.325	10.315	(1.000)	55990	5.00000	

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20412032003	SampleType	: SAMPLE
Injection Date	: 05-DEC-2004 14:02	Instrument	: msv0.i
Operator	: RSP		
Sample Info	: 20412032003*SKSWD03FD1010		
Misc Info	: MSV~5559~*1*RSP		
Method	: /var/chem/msv0.i/2041205.s.b/clp2.1w0.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist:	all



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWD03FB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204120320

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412032006

Level: (low/med) Lab File ID: 2041205/T8192

% Moisture: not dec. Date Collected: 12/02/04 Time: 1200

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/03/04

Instrument ID: MSV0 Date Analyzed: 12/05/04 Time: 1245

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 284346

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0	UJ
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0	
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0	
78-93-3	2-Butanone	5.0	U	0.010	5.0	R
591-78-6	2-Hexanone	5.0	U	0.010	5.0	UJ
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0	UJ
67-64-1	Acetone	5.0	U	0.010	5.0	R
71-43-2	Benzene	1.0	U	0.010	1.0	UJ
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0	
75-25-2	Bromoform	1.0	U	0.010	1.0	
74-83-9	Bromomethane	1.0	U	0.010	1.0	
75-15-0	Carbon disulfide	1.0	U	0.010	1.0	
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0	
108-90-7	Chlorobenzene	1.0	U	0.010	1.0	
75-00-3	Chloroethane	1.0	U	0.010	1.0	
67-66-3	Chloroform	0.17	J	0.010	1.0	
74-87-3	Chloromethane	1.0	U	0.010	1.0	
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0	
100-41-4	Ethylbenzene	1.0	U	0.010	1.0	

Status mk

FORM I VCA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWD03FB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204120320

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412032006

Level: (low/med) Lab File ID: 2041205/T8192

% Moisture: not dec. Date Collected: 12/02/04 Time: 1200

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/03/04

Instrument ID: MSV0 Date Analyzed: 12/05/04 Time: 1245

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 284346

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

UJ

5/10/05 MF

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSWD03FB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204120320

Matrix: Water Lab Sample ID: 20412032006

Sample wt/vol: Units: Lab File ID:

Level: (low/med) Date Collected: 12/02/04 Time: 1200

% Moisture: not dec. Date Received: 12/03/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/05/04 Time: 1245

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

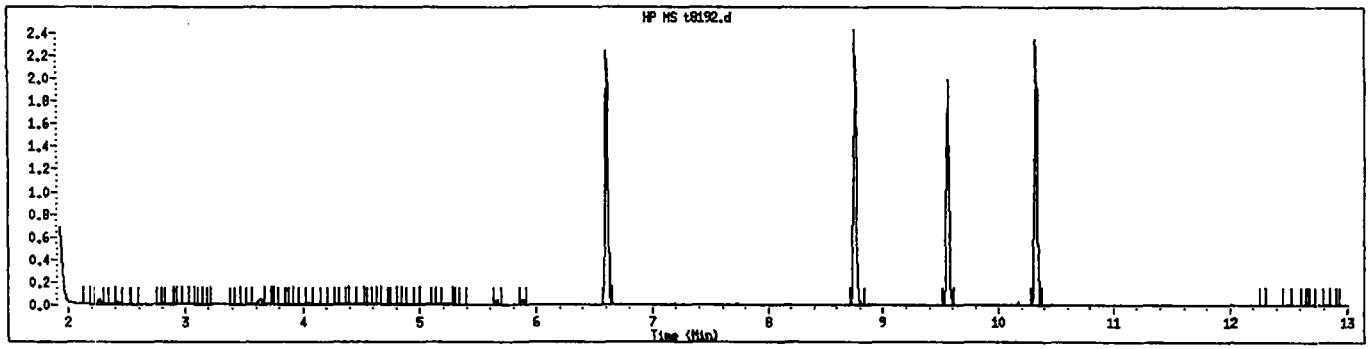
Number TICs Found: 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20412032006	SampleType	: SAMPLE
Injection Date	: 05-DEC-2004 12:45	Instrument	: msv0.i
Operator	: RSP		
Sample Info	: 20412032006*SKSWD03FB1010		
Misc Info	: MSV~5559~*1*RSP		
Method	: /var/chem/msv0.i/2041205.s.b/clp2.1w0.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: all



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VHBLK01

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204120320

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412032010

Level: (low/med) Lab File ID: 2041205/T8195

% Moisture: not dec. Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/02/04

Instrument ID: MSV0 Date Analyzed: 12/05/04 Time: 1533

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 284346

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0	
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0	
78-93-3	2-Butanone	5.0	U	0.010	5.0	R
591-78-6	2-Hexanone	5.0	U	0.010	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0	
67-64-1	Acetone	5.0	U	0.010	5.0	R
71-43-2	Benzene	1.0	U	0.010	1.0	
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0	
75-25-2	Bromoform	1.0	U	0.010	1.0	
74-83-9	Bromomethane	1.0	U	0.010	1.0	
75-15-0	Carbon disulfide	1.0	U	0.010	1.0	
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0	
108-90-7	Chlorobenzene	1.0	U	0.010	1.0	
75-00-3	Chloroethane	1.0	U	0.010	1.0	
67-66-3	Chloroform	1.0	U	0.010	1.0	
74-87-3	Chloromethane	1.0	U	0.010	1.0	
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0	
100-41-4	Ethylbenzene	1.0	U	0.010	1.0	

6/27/05
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FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWD031010 (MSD)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204120320

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412032005

Level: (low/med) Lab File ID: 2041204/T8174

% Moisture: not dec. Date Collected: 12/02/04 Time: 1200

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/03/04

Instrument ID: MSV0 Date Analyzed: 12/04/04 Time: 1813

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 284340

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
79-00-5	1,1,2-Trichloroethane	4.4		0.010	1.0
106-93-4	1,2-Dibromoethane	4.2		0.010	1.0
107-06-2	1,2-Dichloroethane	4.5		0.010	1.0
78-87-5	1,2-Dichloropropane	4.1		0.010	1.0
106-46-7	1,4-Dichlorobenzene	4.4		0.010	1.0
71-43-2	Benzene	3.8		0.010	1.0
75-25-2	Bromoform	4.7		0.010	1.0
56-23-5	Carbon tetrachloride	4.2		0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	3.6		0.010	1.0
127-18-4	Tetrachloroethene	3.9		0.010	1.0
79-01-6	Trichloroethene	4.0		0.010	1.0
75-01-4	Vinyl chloride	4.2		0.010	1.0

GCAL, Inc.

Data file : /var/chem/msv0.i/2041204.s.b/t8174.d
Lab Smp Id: 20412032005 Client Smp ID: SKSWD031010(MSD]
Inj Date : 04-DEC-2004 18:13
Operator : RSP Inst ID: msv0.i
Smp Info : 20412032005*SKSWD031010(MSD]
Misc Info : MSV~5558~*1*RSP
Comment :
Method : /var/chem/msv0.i/2041204.s.b/clp2.1w0.m
Meth Date : 04-Dec-2004 17:34 rjo Quant Type: ISTD
Cal Date : 04-DEC-2004 13:32 Cal File: t8162.d
Als bottle: 17 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ETLCS.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	25.00000	ng unit correction factor
Vo	25.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
2 Vinyl Chloride +	62	2.466	2.462	(0.374)	27846	4.18877	4.2(M)
16 Carbon Tetrachloride	117	6.107	6.103	(0.698)	103385	4.22991	4.2
17 Benzene	78	6.298	6.295	(0.720)	116411	3.78982	3.8
18 1,2-Dichloroethene	62	6.364	6.367	(0.965)	53631	4.51698	4.5
* 19 1,4-Difluorobenzene	114	6.596	6.599	(1.000)	147810	5.00000	
20 Trichloroethene	130	6.787	6.784	(0.776)	39927	3.97434	4.0
21 1,2-Dichloropropane +	63	6.992	6.995	(0.799)	20126	4.12157	4.1
23 cis-1,3-Dichloropropene	75	7.508	7.511	(0.858)	33828	3.57872	3.6
27 1,1,2-Trichloroethane	97	8.056	8.059	(0.921)	21936	4.37077	4.4
28 Tetrachloroethene	164	8.109	8.105	(0.927)	40920	3.88128	3.9
31 1,2-Dibromoethane(EDB)	107	8.453	8.456	(0.966)	20753	4.16853	4.2
* 32 Chlorobenzene-d5	82	8.750	8.746	(1.000)	73596	5.00000	
38 Bromoform ++	173	9.358	9.361	(0.908)	20704	4.72338	4.7
$ 39 Bromofluorobenzene	174	9.550	9.546	(1.448)	62662	5.00763	5.0
* 42 1,4-DICHLOROBENZENE-D4	152	10.310	10.313	(1.000)	73400	5.00000	

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL Contract:

Lab Code: Case No.: 204120320 SAS No.: SDG No.: 204120320

EPA Sample No. (SSTD050##): SSTD050 Date Analyzed: 12/22/04

Lab File ID (Standard): B5101 Time Analyzed: 0822

Instrument ID: MSSV3 GC Column: DB-5MS-30M ID:0.25(mm)

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	81588	4.62	63540	6.39	75689	7.50
	UPPER LIMIT	163176	5.12	127080	6.89	151378	8.00
	LOWER LIMIT	40794	4.12	31770	5.89	37844	7.00
	EPA SAMPLE NO.						
01	1207SBLK	108627	4.62	105258	6.39	102833	7.50
02	SKSWD021010	120351	4.62	99156	6.38	100112	7.50
03	SKSWD031010	93482	4.62	92697	6.39	91422	7.50
04	SKSWD03FD101	91358	4.62	118090	6.38	125506	7.50
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204120320
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWD021010
Contract:
Lab File ID: 2041222/B5108
Lab Sample ID: 20412032001
Date Collected: 12/01/04 Time: 1350
Date Received: 12/02/04
Date Extracted: 12/07/04
Date Analyzed: 12/22/04 Time: 1243
Dilution Factor: 1 Analyst: JAR3
Prep Method: OLM4.2 SVOA
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 284403 Analytical Batch: 285398

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0	
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0	
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0	
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0	UJ
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0	
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0	
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0	
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0	
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0	
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0	
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0	
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0	
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0	
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0	
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0	
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0	R
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0	
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0	
83-32-9	Acenaphthene	10.0	U	0.010	10.0	
208-96-8	Acenaphthylene	10.0	U	0.010	10.0	
120-12-7	Anthracene	10.0	U	0.010	10.0	
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0	
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0	
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0	
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0	
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0	
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0	
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0	
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0	

FORM I SV-1

5/12/05 MR

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204120320

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWD021010

Contract:

Lab File ID: 2041222/B5108

Lab Sample ID: 20412032001

Date Collected: 12/01/04 Time: 1350

Date Received: 12/02/04

Date Extracted: 12/07/04

Date Analyzed: 12/22/04 Time: 1243

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 284403 Analytical Batch: 285398

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
117-81-7	bis(2-ethylhexyl)phthalate	~~1.16~~ 10.0	~~JB~~ U	0.010	10.0
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0
86-74-8	Carbazole	10.0	U	0.010	10.0
218-01-9	Chrysene	10.0	U	0.010	10.0
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0
132-64-9	Dibenzofuran	10.0	U	0.010	10.0
84-66-2	Diethylphthalate	10.0	U	0.010	10.0
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0
206-44-0	Fluoranthene	10.0	U	0.010	10.0
86-73-7	Fluorene	10.0	U	0.010	10.0
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0
67-72-1	Hexachloroethane	10.0	U	0.010	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0
78-59-1	Isophorone	10.0	U	0.010	10.0
91-20-3	Naphthalene	10.0	U	0.010	10.0
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0
98-95-3	Nitrobenzene	10.0	U	0.010	10.0
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0
85-01-8	Phenanthrene	10.0	U	0.010	10.0
108-95-2	Phenol	10.0	U	0.010	10.0
129-00-0	Pyrene	10.0	U	0.010	10.0
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0

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5 holds

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204120320

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSWD021010

Contract:

Lab File ID: 2041222/B5108

Lab Sample ID: 20412032001

Date Collected: 12/01/04 Time: 1350

Date Received: 12/02/04

Date Extracted: 12/07/04

Date Analyzed: 12/22/04 Time: 1243

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 284403 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

FORM I SV-1

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204120320
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWD021010
Contract:
Lab File ID: 2041222/B5108
Lab Sample ID: 20412032001
Date Collected: 12/01/04 Time: 1350
Date Received: 12/02/04
Date Extracted:
Date Analyzed: 12/22/04 Time: 1243
Dilution Factor: 1 Analyst: JAR3
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		Unknown	3.571	1.66	

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2041222.s.b/b5108.d
Lab Smp Id: 20412032001 Client Smp ID: 20412032001
Inj Date : 22-DEC-2004 12:43
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 20412032001*4342*
Misc Info : 20412032001*MSSV-2453-*120320*1000-1.0
Comment :
Method : /var/chem/MSSV3.i/2041222.s.b/CLP4.2_02.m.m
Meth Date : 22-Dec-2004 12:02 jar3 Quant Type: ISTD
Cal Date : 22-DEC-2004 08:22 Cal File: b5101.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	0.949	0.945	(0.510)	244907	137.584	68.8
$ 3 Phenol-d5	99	1.664	1.663	(0.895)	377317	123.351	61.7
$ 6 2-Chlorophenol-d4	132	1.721	1.723	(0.925)	164672	125.493	62.7
* 8 1,4-Dichlorobenzene-d4	115	1.860	1.859	(1.000)	37338	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	1.956	1.955	(1.052)	74323	71.7534	35.9
$ 16 Nitrobenzene-d5	82	2.218	2.217	(0.838)	297398	88.6965	44.3
* 23 Naphthalene-d8	136	2.646	2.648	(1.000)	141071	40.0000	
$ 33 2-Fluorobiphenyl	172	3.312	3.309	(0.891)	248011	90.8430	45.4
* 41 Acenaphthene-d10	164	3.713	3.712	(1.000)	75160	40.0000	
$ 53 2,4,6-Tribromophenol	332	4.199	4.200	(1.131)	54266	151.055	75.5
* 58 Phenanthrene-d10	188	4.616	4.618	(1.000)	120351	40.0000	
$ 65 Terphenyl-d14	244	5.629	5.631	(0.882)	225653	88.2549	44.1
* 69 Chrysene-d12	240	6.384	6.389	(1.000)	99156	40.0000	
71 bis(2-Ethylhexyl)phthalate	149	6.438	6.440	(1.008)	3527	2.32610	1.16(a)

Data File: /var/chem/MSSV3.i/2041222.s.b/b5108.d

Date : 22-DEC-2004 12:43

Client ID: 20412032001

Instrument: MSSV3.i

Sample Info: 20412032001M4342M

Volume Injected (uL): 2.0

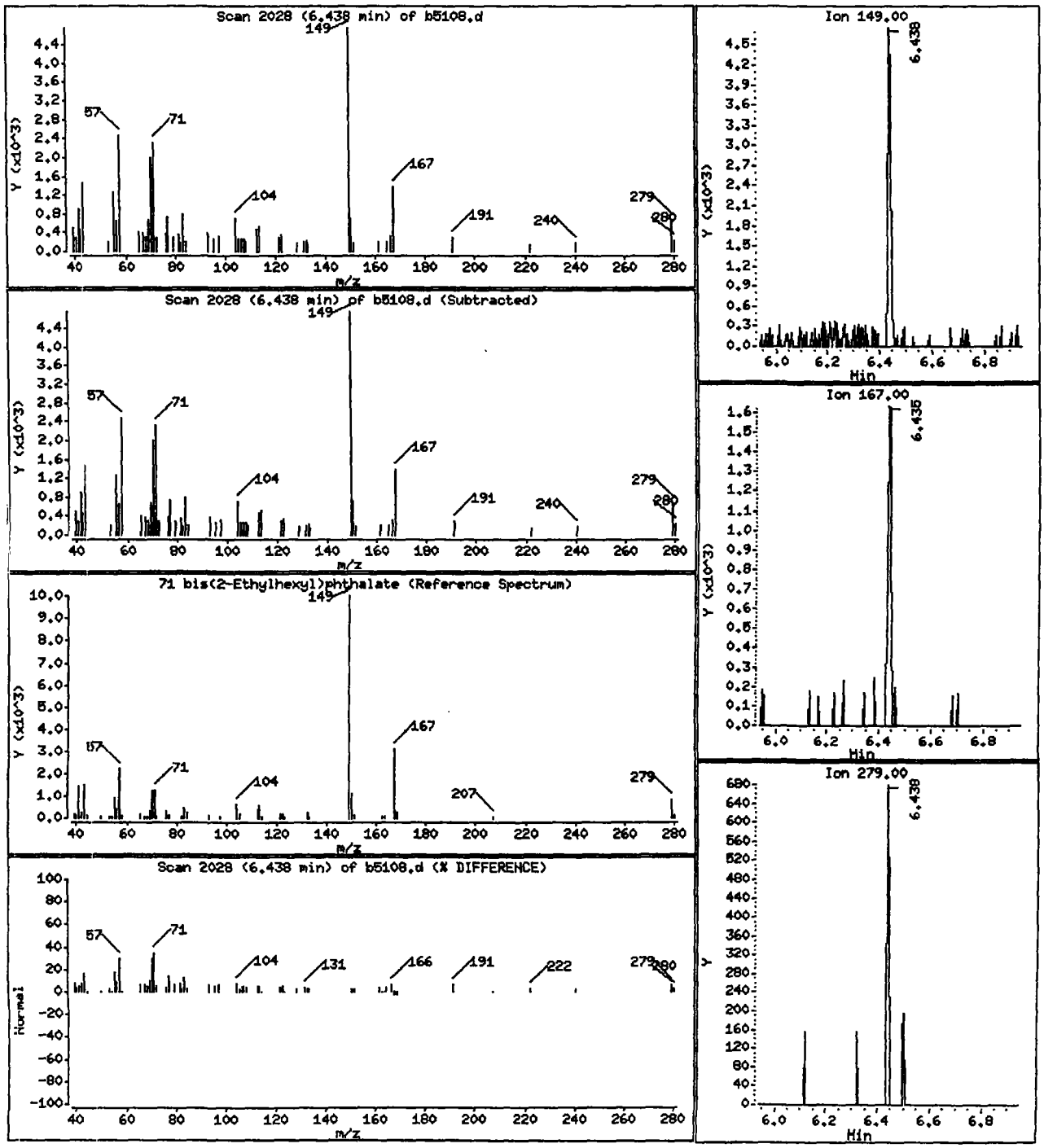
Operator: jar3

Column phase: DB-5MS-30M

Column diameter: 0.25

71 bis(2-Ethylhexyl)phthalate

Concentration: 1.16 ug/L



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204120320

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSWD031010

Contract:

Lab File ID: 2041222/B5109

Lab Sample ID: 20412032002

Date Collected: 12/02/04 Time: 1200

Date Received: 12/03/04

Date Extracted: 12/07/04

Date Analyzed: 12/22/04 Time: 1302

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 284403 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0	
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0	
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0	
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0	UJ
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0	
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0	
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0	
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0	
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0	
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0	
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0	
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0	
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0	
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0	
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0	
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0	R
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0	
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0	
83-32-9	Acenaphthene	10.0	U	0.010	10.0	
208-96-8	Acenaphthylene	10.0	U	0.010	10.0	
120-12-7	Anthracene	10.0	U	0.010	10.0	
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0	
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0	
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0	
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0	
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0	
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0	
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0	
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0	

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204120320
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWD031010
Contract:
Lab File ID: 2041222/B5109
Lab Sample ID: 20412032002
Date Collected: 12/02/04 Time: 1200
Date Received: 12/03/04
Date Extracted: 12/07/04
Date Analyzed: 12/22/04 Time: 1302
Dilution Factor: 1 Analyst: JAR3
Prep Method: OLM4.2 SVOA
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 284403 Analytical Batch: 285398

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
117-81-7	bis(2-ethylhexyl)phthalate	10.0	U	0.010	10.0
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0
86-74-8	Carbazole	10.0	U	0.010	10.0
218-01-9	Chrysene	10.0	U	0.010	10.0
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0
132-64-9	Dibenzofuran	10.0	U	0.010	10.0
84-66-2	Diethylphthalate	10.0	U	0.010	10.0
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0
206-44-0	Fluoranthene	10.0	U	0.010	10.0
86-73-7	Fluorene	10.0	U	0.010	10.0
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0
67-72-1	Hexachloroethane	10.0	U	0.010	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0
78-59-1	Isophorone	10.0	U	0.010	10.0
91-20-3	Naphthalene	10.0	U	0.010	10.0
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0
98-95-3	Nitrobenzene	10.0	U	0.010	10.0
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0
85-01-8	Phenanthrene	10.0	U	0.010	10.0
108-95-2	Phenol	10.0	U	0.010	10.0
129-00-0	Pyrene	10.0	U	0.010	10.0
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0

UJ

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204120320
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH

Sample ID: SKSWD031010
Contract:
Lab File ID: 2041222/B5109
Lab Sample ID: 20412032002
Date Collected: 12/02/04 Time: 1200
Date Received: 12/03/04
Date Extracted: 12/07/04
Date Analyzed: 12/22/04 Time: 1302
Dilution Factor: 1 Analyst: JAR3
Prep Method: OLM4.2 SVOA
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 284403 Analytical Batch: 285398

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

FORM I SV-1

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204120320
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWD031010
Contract:
Lab File ID: 2041222/B5109
Lab Sample ID: 20412032002
Date Collected: 12/02/04 Time: 1200
Date Received: 12/03/04
Date Extracted:
Date Analyzed: 12/22/04 Time: 1302
Dilution Factor: 1 Analyst: JAR3
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		Unknown	3.574	.806	

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2041222.s.b/b5109.d
Lab Smp Id: 20412032002 Client Smp ID: 20412032002
Inj Date : 22-DEC-2004 13:02
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 20412032002*4342*
Misc Info : 20412032002*MSSV-2453-*120320*1000-1.0
Comment :
Method : /var/chem/MSSV3.i/2041222.s.b/CLP4.2_02.m.m
Meth Date : 22-Dec-2004 12:02 jar3 Quant Type: ISTD
Cal Date : 22-DEC-2004 08:22 Cal File: b5101.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL. RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	CONCENTRATIONS FINAL (ug/L)
$ 1 2-Fluorophenol	112	0.949	0.945	(0.509)	225577	167.469	83.7(R)
$ 3 Phenol-d5	99	1.667	1.663	(0.895)	350836	151.570	75.8
$ 6 2-Chlorophenol-d4	132	1.724	1.723	(0.925)	153071	154.157	77.1
* 8 1,4-Dichlorobenzene-d4	115	1.863	1.859	(1.000)	28254	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	1.959	1.955	(1.052)	72228	92.1374	46.1
$ 16 Nitrobenzene-d5	82	2.220	2.217	(0.838)	281446	105.642	52.8
* 23 Naphthalene-d8	136	2.649	2.648	(1.000)	112089	40.0000	
$ 33 2-Fluorobiphenyl	172	3.310	3.309	(0.891)	234113	107.723	53.9
* 41 Acenaphthene-d10	164	3.713	3.712	(1.000)	63015	40.0000	
$ 53 2,4,6-Tribromophenol	332	4.199	4.200	(1.131)	47674	166.706	83.4
* 58 Phenanthrene-d10	188	4.616	4.618	(1.000)	53482	40.0000	
$ 65 Terphenyl-d14	244	5.629	5.631	(0.881)	218047	91.2223	45.6
* 69 Chrysene-d12	240	6.387	6.389	(1.000)	52697	40.0000	
* 76 Perylene-d12	264	7.500	7.501	(1.000)	91422	40.0000	

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204120320

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSWD03FD1010

Contract:

Lab File ID: 2041222/B5110

Lab Sample ID: 20412032003

Date Collected: 12/02/04 Time: 1200

Date Received: 12/03/04

Date Extracted: 12/07/04

Date Analyzed: 12/22/04 Time: 1501

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 284403 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0	
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0	
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0	
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0	UJ
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0	
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0	
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0	
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0	
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0	
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0	
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0	
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0	
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0	
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0	
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0	
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0	R
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0	
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0	
83-32-9	Acenaphthene	10.0	U	0.010	10.0	
208-96-8	Acenaphthylene	10.0	U	0.010	10.0	
120-12-7	Anthracene	10.0	U	0.010	10.0	
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0	
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0	
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0	
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0	
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0	
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0	
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0	
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0	

FORM I SV-1

5/10/05 MR

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204120320

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWD03FD1010

Contract:

Lab File ID: 2041222/B5110

Lab Sample ID: 20412032003

Date Collected: 12/02/04 Time: 1200

Date Received: 12/03/04

Date Extracted: 12/07/04

Date Analyzed: 12/22/04 Time: 1501

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 284403 Analytical Batch: 285398

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
117-81-7	bis(2-ethylhexyl)phthalate	10.0 ~~1.48~~	~~JB~~ UL	0.010	10.0
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0
86-74-8	Carbazole	10.0	U	0.010	10.0
218-01-9	Chrysene	10.0	U	0.010	10.0
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0
132-64-9	Dibenzofuran	10.0	U	0.010	10.0
84-66-2	Diethylphthalate	10.0	U	0.010	10.0
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0
206-44-0	Fluoranthene	10.0	U	0.010	10.0
86-73-7	Fluorene	10.0	U	0.010	10.0
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0
67-72-1	Hexachloroethane	10.0	U	0.010	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0
78-59-1	Isophorone	10.0	U	0.010	10.0
91-20-3	Naphthalene	10.0	U	0.010	10.0
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0
98-95-3	Nitrobenzene	10.0	U	0.010	10.0
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0
85-01-8	Phenanthrene	10.0	U	0.010	10.0
108-95-2	Phenol	10.0	U	0.010	10.0
129-00-0	Pyrene	10.0	U	0.010	10.0
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0

U3

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204120320

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWD03FD1010

Contract:

Lab File ID: 2041222/B5110

Lab Sample ID: 20412032003

Date Collected: 12/02/04 Time: 1200

Date Received: 12/03/04

Date Extracted: 12/07/04

Date Analyzed: 12/22/04 Time: 1501

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

Prep Batch: 284403 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

FORM I SV-1

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204120320
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWD03FD1010
Contract:
Lab File ID: 2041222/B5110
Lab Sample ID: 20412032003
Date Collected: 12/02/04 Time: 1200
Date Received: 12/03/04
Date Extracted:
Date Analyzed: 12/22/04 Time: 1501
Dilution Factor: 1 Analyst: JAR3
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		Unknown	3.571	.743	

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-35MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 284385 Analytical Batch: 284658

CONCENTRATION UNITS: ug/L

Sample ID: SKSWD021010

Contract:

SAS No.: SDG No.: 204120320

Lab Sample ID: 20412032001

Date Collected: 12/01/04 Time: 1350

Date Received: 12/02/04

Date Extracted: 12/06/04

Date Analyzed: 12/09/04 Time: 2032

Dilution Factor: 1 Analyst: DLB

Prep Method: OLM4.2 PEST/PCB

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS6A

Lab File ID: 2041209/SV6020

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

CORRECTED

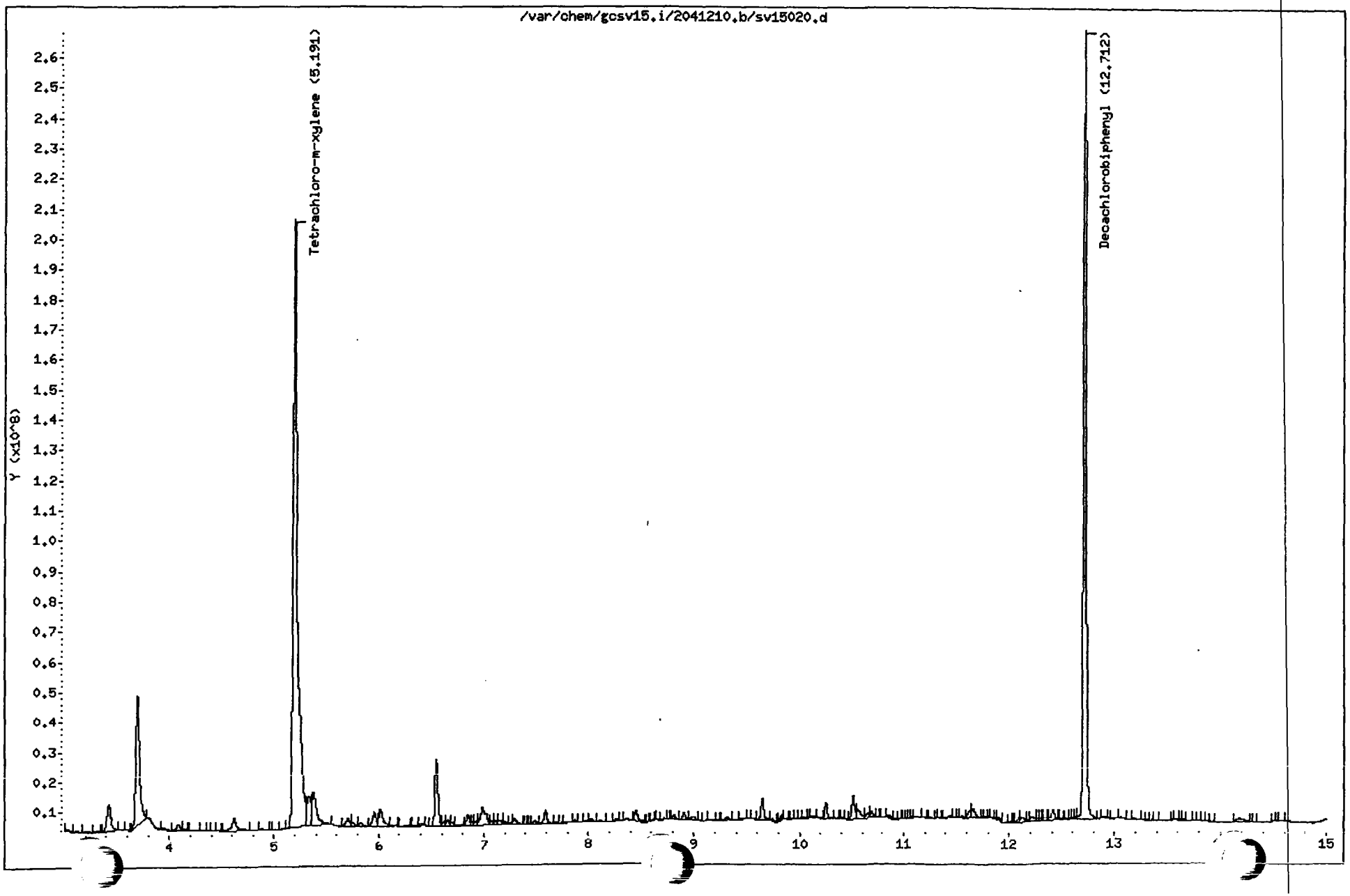
Data File: /var/chem/gcsv6.i/2041209.b/SV6020.d
Report Date: 13-May-2005 18:09

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	RptCol	Result	Target Range	Ratio	Review Code
Tetrachloro-m-xylene	5.767	5.191	21084791	563738925	0.11	0.12	Lowest	0.11		N/A	
Decachlorobiphenyl	23.623	12.712	32761818	479628930	0.12	0.14	Lowest	0.12		N/A	

0001988
ADDITION

Data File: /var/chem/gcsv15.i/2041210.b/sv15020.d
Date : 10-DEC-2004 19:57
Client ID: SKSWD021010
Sample Info: 20412032001
Volume Injected (uL): 1.0
Column phase: DB-XLB-30M

Instrument: gcsv15.i
Operator: dlb
Column diameter: 0.53



000202

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-35MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 284385 Analytical Batch: 284658

Sample ID: SKSWD031010

Contract:

SAS No.: SDG No.: 204120320

Lab Sample ID: 20412032002

Date Collected: 12/02/04 Time: 1200

Date Received: 12/03/04

Date Extracted: 12/06/04

Date Analyzed: 12/09/04 Time: 2101

Dilution Factor: 1 Analyst: DLB

Prep Method: OLM4.2 PEST/PCB

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS6A

Lab File ID: 2041209/SV6021

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

CORRECTED

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-35MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 284385 Analytical Batch: 284658

CONCENTRATION UNITS: ug/L

Sample ID: SKSWD03FD1010

Contract:

SAS No.: SDG No.: 204120320

Lab Sample ID: 20412032003

Date Collected: 12/02/04 Time: 1200

Date Received: 12/03/04

Date Extracted: 12/06/04

Date Analyzed: 12/09/04 Time: 2131

Dilution Factor: 1 Analyst: DLB

Prep Method: OLM4.2 PEST/PCB

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS6A

Lab File ID: 2041209/SV6022

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

Data File: /var/chem/gcsv6.i/2041209.b/SV6022.d
Report Date: 13-May-2005 18:10

Gulf Coast Analytical Services

Sample #1 : /var/chem/gcsv6.i/2041209.b/SV6022.d
Sample #2 : /var/chem/gcsv15.i/2041210.b/sv15022.d
Inj Date : 09-DEC-2004 21:31
Sample Info: 20412032003-1.0-GCSV~44XX-204120320--et 1000 1
Misc Info :
Cal Date : 03-JAN-2005 08:49
Operator : dlb
Inst ID : gcsv6.i
Dil Factor : 1.000000

Method #1 : /var/chem/gcsv6.i/2041209.b/pestclp-f.m
Method #2 : /var/chem/gcsv15.i/2041210.b/pestclp-f.m
Sub List #1 : all.sub
Sub List #2 : all.sub
Col #1 Phase : DB-35MS 30M
Col #2 Phase : DB-XLB 30M

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

0002088A
ADDITION

205146

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC

CORRECTIVE ACTION REQUEST/CLIENT INQUIRY REQUEST

Group #: 204120320

Client: ET

Initiated By/Date: Dmm 6/22/05

REASON FOR INITIATION OF CORRECTIVE ACTION

Metals - Form X incorrect - pgs 345 + 23 appendix - See email

RESOLUTION

Regenerate Form in CLP format

Section	Action Taken
Metals KM 6/23/05	Regenerated Form

Narratives to be added:

Report Generation

Date	Action Taken
6/24/05	Submit page 345 + 23 of addendum

Correction Reviewed By: KBM

Date Completed: 6/24/05

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC

NELAP CERTIFICATE NUMBER 01955

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 01/25/2005

GCAL Report 204120320

Deliver To	Earth Tech 2373 Progress St Hebron, KY 41048 859-442-2300
Attn	Pat Higgins

Customer Earth Tech

Project Skinner Landfill

000001

RESUBMITTED

7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402 • Phone 225.769.4900 • Fax 225.767.5717

CASE NARRATIVE

Client: Earth Tech **Report:** 204120320

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

In the OLC02.1 - CLP Volatiles analysis of sample 20412032006 (SKSWD03FB1010), the recovery for the surrogate 4-Bromofluorobenzene was outside of the established control limits. The sample was reanalyzed and similar results were observed. This is attributed to a matrix interference.

SEMI-VOLATILES MASS SPECTROMETRY

In the OLM4.2 Semi-Volatiles analysis, one acid fraction surrogate is above the upper control limit in sample 20412032003 SKSWD03FD1010).

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the OLM4.2 PEST/PCB analysis for prep batch 284385, no MS/MSD was performed due to insufficient sample volume. All LCS/LCSD recoveries and RPDs were acceptable.

METALS

Calcium is flagged as estimated for samples associated with prep batch 284876 due to the fact that the percent difference between the original sample result and the serial dilution result is greater than 10. A chemical or physical interference is suspected.

Dissolved Chromium was greater than total Chromium in samples 20412032002 (SKSWD031010) and 20412032008 (SKSWD031010 (DISS)). This is attributed to separate aliquots of sample.

Dissolved Nickel was greater than total Nickel in samples 20412032001(SKSWD021010) and 20412032007 (SKSWD021010 (DISS)). This is attributed to separate aliquots of sample.

Dissolved Nickel was greater than total Nickel in samples 20412032002 (SKSWD031010) and 20412032008 (SKSWD031010 (DISS)). This is attributed to separate aliquots of sample.

Dissolved Zinc was greater than total Zinc in samples 20412032002 (SKSWD031010) and 20412032008 (SKSWD031010 (DISS)). This is attributed to separate aliquots of sample.

The Sample/Duplicate RPDs for Iron and Nickel for prep batch 284876 are not applicable because the sample and or duplicate concentration is less than five times the reporting limit.

U.S. EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204120320

SOW No.:

EPA Sample No	*Lab Sample ID*
SKSWD021010	20412032001
SKSWD031010	20412032002
SKSWD03FD1010	20412032003
SKSWD021010 (DISS)	20412032007
SKSWD031010 (DISS)	20412032008
SKSWD03FD1010	20412032009

Were ICP interelement corrections applied ? Yes / No YES

Were ICP background corrections applied ? Yes / No YES

If yes-were raw data generated before application of background corrections ? Yes / No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness for other than the conditions detailed above. Release of this data contained in this hardcopy data package and in the computer readable data submitted on the diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Mark Peterman Name: MARK PETERMAN

Date:: 6/13/05 Title: METALS SUPERVISOR

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC

NELAP CERTIFICATE NUMBER 01955

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 01/25/2005

GCAL Report 204120320

Deliver To	Earth Tech 2373 Progress St Hebron, KY 41048 859-442-2300
Attn	Pat Higgins

Customer Earth Tech

Project Skinner Landfill

000001

RESUBMITTED

7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402 • Phone 225.769.4900 • Fax 225.767.5717

CASE NARRATIVE

Client: Earth Tech **Report:** 204120320

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

In the OLC02.1 - CLP Volatiles analysis of sample 20412032006 (SKSWD03FB1010), the recovery for the surrogate 4-Bromofluorobenzene was outside of the established control limits. The sample was reanalyzed and similar results were observed. This is attributed to a matrix interference.

SEMI-VOLATILES MASS SPECTROMETRY

In the OLM4.2 Semi-Volatiles analysis, one acid fraction surrogate is above the upper control limit in sample 20412032003 SKSWD03FD1010).

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the OLM4.2 PEST/PCB analysis for prep batch 284385, no MS/MSD was performed due to insufficient sample volume. All LCS/LCSD recoveries and RPDs were acceptable.

METALS

Calcium is flagged as estimated for samples associated with prep batch 284876 due to the fact that the percent difference between the original sample result and the serial dilution result is greater than 10. A chemical or physical interference is suspected.

Dissolved Chromium was greater than total Chromium in samples 20412032002 (SKSWD031010) and 20412032008 (SKSWD031010 (DISS)). This is attributed to separate aliquots of sample.

Dissolved Nickel was greater than total Nickel in samples 20412032001(SKSWD021010) and 20412032007 (SKSWD021010 (DISS)). This is attributed to separate aliquots of sample.

Dissolved Nickel was greater than total Nickel in samples 20412032002 (SKSWD031010) and 20412032008 (SKSWD031010 (DISS)). This is attributed to separate aliquots of sample.

Dissolved Zinc was greater than total Zinc in samples 20412032002 (SKSWD031010) and 20412032008 (SKSWD031010 (DISS)). This is attributed to separate aliquots of sample.

The Sample/Duplicate RPDs for Iron and Nickel for prep batch 284876 are not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD021010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204120320

Matrix: (soil / water) Water Lab Sample ID: 20412032001

Level: (low / med) Date Received: 12/02/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	38.7			P	
7440-39-3	Barium	9.9	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	209000		E.	P	J
7440-47-3	Chromium	2.8	B		P	
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	31.3	B		P	
7439-92-1	Lead	2.4	U		P	
7439-95-4	Magnesium	67900			P	
7439-96-5	Manganese	2.8	B		P	
7439-97-6	Mercury	0.1	U		AV	~~UJ~~
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	4010	B		P	
7782-49-2	Selenium	4.4	U		P	
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	5360			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	6.7	B		P	
7440-66-6	Zinc	0.7	U		P	
57-12-5	Cyanide	0.6	B		AS	

6/22/05 [illegible]

8/3/05 [illegible]

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD031010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204120320

Matrix: (soil / water) Water Lab Sample ID: 20412032002

Level: (low / med) Date Received: 12/03/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	25.5			P	
7440-39-3	Barium	32.8	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	135000		E	P	J
7440-47-3	Chromium	1.5	U		P	
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	7.8	B		P	
7439-89-6	Iron	67.8	B		P	
7439-92-1	Lead	2.4	U		P	
7439-95-4	Magnesium	27400			P	
7439-96-5	Manganese	3.2	B		P	
7439-97-6	Mercury	0.1	U		AV	~~AJ~~
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	3450	B		P	
7782-49-2	Selenium	4.4	U		P	
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	10400			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	4.7	B		P	
7440-66-6	Zinc	7.3	B		P	
57-12-5	Cyanide	0.5	B		AS	

6/22/05 [illegible]

9/3/05 [illegible]

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD03FD1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204120320

Matrix: (soil / water) Water Lab Sample ID: 20412032003

Level: (low / med) Date Received: 12/03/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57.5	B		P
7440-36-0	Antimony	3.9	U		P
7440-38-2	Arsenic	25.6			P
7440-39-3	Barium	32.3	B		P
7440-41-7	Beryllium	0.2	U		P
7440-43-9	Cadmium	0.3	U		P
7440-70-2	Calcium	133000		E	P
7440-47-3	Chromium	1.8	B		P
7440-48-4	Cobalt	0.6	U		P
7440-50-8	Copper	4.5	B		P
7439-89-6	Iron	60.0	B		P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	27200			P
7439-96-5	Manganese	3.5	B		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	3380	B		P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.9	U		P
7440-23-5	Sodium	10100			P
7440-28-0	Thallium	6.3	U		P
7440-62-2	Vanadium	5.2	B		P
7440-66-6	Zinc	8.5	B		P
57-12-5	Cyanide	0.5	B		AS

J

6/22/05 MSA

9/9/05 MSA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD021010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204120320

Matrix (soil / water) Water Lab Sample ID: 20412032007

Level (low / med) Date Received: 12/02/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	55.3	U		P
7440-36-0	Antimony	3.9	U		P
7440-38-2	Arsenic	37.4			P
7440-39-3	Barium	9.5	B		P
7440-41-7	Beryllium	0.2	U		P
7440-43-9	Cadmium	0.3	U		P
7440-70-2	Calcium	202000		E.	P
7440-47-3	Chromium	2.8	B		P
7440-48-4	Cobalt	0.6	U		P
7440-50-8	Copper	1.2	U		P
7439-89-6	Iron	14.3	B		P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	66900			P
7439-96-5	Manganese	0.6	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	3.5	B		P
7440-09-7	Potassium	3970	B		P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.9	U		P
7440-23-5	Sodium	6580			P
7440-28-0	Thallium	6.3	U		P
7440-62-2	Vanadium	7.6	B		P
7440-66-6	Zinc	0.7	U		P

J

UJ

6/22/05 MSL

9/15/05 MSL

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD031010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204120320

Matrix: (soil / water) Water Lab Sample ID: 20412032008

Level: (low / med) Date Received: 12/03/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	55.3	U		P
7440-36-0	Antimony	3.9	U		P
7440-38-2	Arsenic	30.2			P
7440-39-3	Barium	31.1	B		P
7440-41-7	Beryllium	0.2	U		P
7440-43-9	Cadmium	0.3	U		P
7440-70-2	Calcium	131000		E	P
7440-47-3	Chromium	2.2	B		P
7440-48-4	Cobalt	0.9	B		P
7440-50-8	Copper	2.8	B		P
7439-89-6	Iron	17.8	B		P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	26100			P
7439-96-5	Manganese	4.3	B		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	2.1	B		P
7440-09-7	Potassium	3390	B		P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.9	U		P
7440-23-5	Sodium	10300			P
7440-28-0	Thallium	6.3	U		P
7440-62-2	Vanadium	4.0	B		P
7440-66-6	Zinc	27.0			P

J

UJ

6/22/05 ASM

9/3/05 MA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD03FD1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204120320

Matrix (soil / water) Water Lab Sample ID: 20412032009

Level (low / med) Date Received: 12/03/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	55.3	U		P
7440-36-0	Antimony	3.9	U		P
7440-38-2	Arsenic	23.1			P
7440-39-3	Barium	30.4	B		P
7440-41-7	Beryllium	0.2	U		P
7440-43-9	Cadmium	0.3	U		P
7440-70-2	Calcium	130000		E	P
7440-47-3	Chromium	1.5	U		P
7440-48-4	Cobalt	0.6	U		P
7440-50-8	Copper	1.3	B		P
7439-89-6	Iron	9.4	B		P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	25700			P
7439-96-5	Manganese	2.1	B		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	3310	B		P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.9	U		P
7440-23-5	Sodium	10200			P
7440-28-0	Thallium	6.3	U		P
7440-62-2	Vanadium	4.5	B		P
7440-66-6	Zinc	4.1	B		P

J

6/22/05 [illegible]

9/9/05 [illegible]

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204120320

ICP ID Number: ICP5 ICS Source: 125-31-2 SPEX~

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200000	200000	202596.	200612.46	100	207943.	200455.48	100
Antimony	0	600.00	-18	606.96826	101	-13	607.77619	101
Arsenic	0	100.00	0	103.15980	103	0	99.987744	100
Barium	0	500.00	-9	505.73456	101	-10	511.16631	102
Beryllium	0	500.00	0	499.87946	100	-1	499.83415	100
Cadmium	0	1000.0	-3	995.89903	100	-3	991.21725	99
Calcium	200000	200000	199937.	197198.83	99	202677.	196104.83	98
Chromium	0	500.00	-17	475.23042	95	-18	482.35942	96
Cobalt	0	500.00	-2	496.87775	99	-2	507.97617	102
Copper	0	500.00	-11	509.53049	102	-10	507.89013	102
Iron	80000.	80000.	79346.8	78906.016	99	80495.3	77999.594	97
Lead	0	50.000	0	50.824174	102	0	50.134858	100
Magnesium	200000	200000	206438.	205544.15	103	198365.	205645.84	103
Manganese	0	500.00	-7	502.17923	100	-6	503.88864	101
Nickel	0	1000.0	-1	962.57628	96	-2	967.50383	97
Selenium	0	50.000	0	43.350046	87	-5	44.053637	88
Silver	0	200.00	-14	194.04575	97	-12	195.60117	98
Thallium	0	100.00	13	110.55684	111	20	110.29616	110
Vanadium	0	500.00	16	514.49150	103	13	516.27097	103
Zinc	0	1000.0	-5	991.82004	99	-5	997.26615	100

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSWD021010MS

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix (soil / water) Water SAS No.: SDG No.: 204120320

% Solids for Sample: Level (low/med) :

Lab Sample ID: 20412032001 Original Lab Sample ID: 212608

Concentration Units (ug/L or mg/kg dry weight) : ug/L

Analyte	Control Limit %R		Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	% R	Q	M
Aluminum	75	125	2180		55.3	U	2000	109		P
Antimony	75	125	99.0		3.9	U	100	99		P
Arsenic	75	125	77.8		38.7		40.0	98		P
Barium	75	125	2110		9.9	B	2000	105		P
Beryllium	75	125	52.5		0.2	U	50.0	105		P
Cadmium	75	125	49.8		0.3	U	50.0	100		P
Chromium	75	125	211		2.8	B	200	104		P
Cobalt	75	125	511		0.6	U	500	102		P
Copper	75	125	264		1.2	U	250	106		P
Iron	75	125	1120		31.3	B	1000	109		P
Lead	75	125	17.0		2.4	U	20.0	85		P
Manganese	75	125	535		2.8	B	500	106		P
Nickel	75	125	518		1.1	U	500	104		P
Selenium	75	125	7.7		4.4	U	10.0	77		P
Silver	75	125	54.0		0.9	U	50.0	108		P
Thallium	75	125	56.4		6.3	U	50.0	113		P
Vanadium	75	125	527		6.7	B	500	104		P
Zinc	75	125	521		0.7	U	500	104		P

Comments:

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSWD021010MS

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204120320

% Solids for Sample: Level (low/med) :

Lab Sample ID: 20412032001 Original Lab Sample ID: 212612

Concentration Units (ug/L or mg/kg dry weight) : ug/L

Analyte	Control Limit %R		Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	% R	Q	M
Mercury	75	125	5.1		0.1	U	5.0	102		AV

Comments:

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSWD021010MS

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix (soil / water) Water SAS No.: SDG No.: 204120320

% Solids for Sample: Level (low/med) :

Lab Sample ID: 20412032001 Original Lab Sample ID: 211435

Concentration Units (ug/L or mg/kg dry weight) : ug/L

Analyte	Control Limit %R		Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	% R	Q	M
Cyanide	75	125	87.6		0.6	B	100	87		AS

Comments:

U.S. EPA - CLP
5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSWD021010PDS

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204120320

% Solids for Sample: Level: (low / med)

Original Lab Sample ID: 212783

Concentration Units (ug/L or mg/kg dry weight) : ug/L

Analyte	Control Limit %R		Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	% R	Q	M
Antimony			123		3.9	U	120	103		P
Arsenic			56.3		38.7		20.0	88		P
Beryllium			10.2		0.2	U	10.0	102		P
Cadmium			9.1		0.3	U	10.0	91		P
Chromium			24.3		2.8	B	20.0	108		P
Cobalt			102		0.6	U	100	102		P
Copper			53.0		1.2	U	50.0	106		P
Lead			2.9	B	2.4	U	6.0	49		P
Manganese			35.3		2.8	B	30.0	108		P
Nickel			85.1		1.1	U	80.0	106		P
Selenium			13.1		4.4	U	10.0	131		P
Silver			22.5		0.9	U	20.0	113		P
Thallium			23.9		6.3	U	20.0	120		P
Vanadium			113		6.7	B	100	107		P
Zinc			38.0		0.7	U	40.0	95		P

Comments:

U.S. EPA - CLP
6
DUPLICATES

EPA SAMPLE NO
SKSWD021010DUP

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix (soil / water) Water SAS No.: SDG No.: 204120320

Level: (low / med)

% Solids for Sample: % Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight) ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	-	55.3	U	69.7	B	200		P
Antimony	-	3.9	U	3.9	U	0		P
Arsenic	0 - 10	38.7		36.3		2.3735		P
Barium	-	9.9	B	9.8	B	1		P
Beryllium	-	0.2	U	0.2	U	0		P
Cadmium	-	0.3	U	0.3	U	0		P
Calcium	0 - 20	209000		204000		2		P
Chromium	-	2.8	B	3.0	B	7		P
Cobalt	-	0.6	U	0.6	U	0		P
Copper	-	1.2	U	1.2	U	0		P
Iron	-	31.3	B	49.2	B	44		P
Lead	-	2.4	U	2.4	U	0		P
Magnesium	0 - 20	67900		67500		.6		P
Manganese	-	2.8	B	2.8	B	0		P
Nickel	-	1.1	U	1.3	B	200		P
Potassium	-	4010	B	3910	B	3		P
Selenium	-	4.4	U	4.4	U	0		P
Silver	-	0.9	U	0.9	U	0		P
Sodium	0 - 5000	5360		5180		179.49		P
Thallium	-	6.3	U	6.3	U	0		P
Vanadium	-	6.7	B	6.3	B	6		P
Zinc	-	0.7	U	0.7	U	0		P

U.S. EPA - CLP
6
DUPLICATES

EPA SAMPLE NO
SKSWD021010DUP

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204120320

Level: (low / med)

% Solids for Sample: % Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight) ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Mercury	-	0.1	U	0.1	U	0		AV

U.S. EPA - CLP
6
DUPLICATES

EPA SAMPLE NO
SKSWD031010DUP

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix (soil / water) Water SAS No.: SDG No.: 204120320

Level: (low / med)

% Solids for Sample: % Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight) ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Cyanide	-	0.6	U	0.6	U	0		AS

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only			
Earth Tech	4342	204120320	12/16/04
Client Name	Client #	Workorder #	Due Date

Report to:
Client: Earth Tech
Address: 2373 Progress Dr
Hebron KY 41048
Contact: Alex Maginnis
Phone: 859 442 2300
Fax: 859 442 2311

Bill to:
Client: Glen Springs
Address: Contract
Same
Contact:
Phone:
Fax:

P.O. Number
Project Name/Number
Sampled By:

Lab use only:
Custody Seal
used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 4

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Volatiles	Semi Volatiles	Pesticides	PCBs	Total Metals	Dissolved Metals	Cyanide			diss	Remarks:	Lab ID 12/3
W	12/1/04	1350		X	SKSWD02 1010	Various	10	X	X	X	X	X	X	X			7	diss not was field filtered	-1
																		Refer to Table 7 (TCL) and Table 8 (TAL) of the Final O&M plan for list of Analytes	
																		Skinner Landfill SWD02 only (SWD03 to follow)	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	FedEx	12/1/04	5:45pm
FedEx # 7919925554 88	[signature]	12/2/04	0920

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

000382

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Workorder #	Due Date
	Earth Tech	4342	204120320	12/14/04

Report to:
Client: Earth Tech
Address: 2373 Progress Dr
Hebron KY 41048
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

Bill to:
Client: Glen Springs
Address: Contract
Contact:
Phone:
Fax:

P.O. Number: 54280
Project Name/Number: Skinner Landfill
Sampled By: Glen Maginnis - Earth Tech

Analytical Requests & Method

Lab use only:
Custody Seal used ☐ yes ☐ no
Custody Seal in tact ☑ yes ☐ no
Temperature °C 4

Matrix[1]	Date	Time (2400)	Grab	Comp	Sample Description	Preservatives	No Containers	Cyanide	Metals (total)	Metals (diss)	Volatiles	diss.	Lab ID
W	12/2	1200		X	SKSWD03 1010	NaOH	1	X					12/3
W	12/2	1200		X	SKSWD03FD 1010	NaOH	1	X					2
W	12/2	1200			SKSWD03 1010	HNO_3	1		X				3
W	↓	1200			SKSWD03 FD1010	HNO_3	1		X				
W	↓	1200			SKSWD03 1010	HNO_3	1			X			
W	↓	1200			SKSWD03 FD1010	HNO_3	1			X			
↓	↓	1200			SKSWD03 1010	HCl	3				X		
		1200			SKSWD03FD 1010	HCl	3				X		
		1200			SKSWD03FB1010	$Na_2S_2O_3$	3				X		
		1200			SKSWD03MS 1010		3				X		
		1200			SKSWD03MSD1010		3				X		

Remarks:
SWD03 1010 - 2
SWD03 1010FD - 3
field filtered
" "

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	Fed Ex	12/2/04	6pm
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Fed Ex #[illegible]	[signature]	12/3/04	[illegible]

Note: include w/ sample set from 12/1 and other cooler from 12/[illegible]

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

000388

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only	Client #	Workorder #	Due Date
Earth Tech (Client Name)	4342	2041 20320	12/16/04

Report to:
Client: EarthTech
Address: 2373 Progress Dr
Hebron KY 41048
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

Bill to:
Client: Glen
Address: Springs
Contact: Contact
Phone:
Fax:

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill - 4th Qt
Sampled By: Alex Maginnis - Earth Tech

Analytical Requests & Method: SVOC, PCBs, Pesticides

Lab use only:
Custody Seal used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 4

Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	SVOC	PCBs	Pesticides	Remarks:	Lab ID
W	12/2	1200			SKSWD03 1010	None	4	X	X	X		12/3-2
W	12/2	1200			SKSWD03FD1010	None	4	X	X	X		-3

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FedEx	6PM 12/2/04	
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature) FedEx #7968473845 6	Received by: (Signature)	Date: 12/2/04	Time: 1415

Note: include in sample lot w/ cooler from 12/01/04 and other from 12/2/04 (3 total) coolers

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

000389

PRESERVATION CHECKLIST / COOLER RECEIPT

Gulf Coast Analytical Laboratories, Inc.

WO:	204120320	**Type:**	M
Desc:		**Report:**	REVIEW_RPT
Work ID:	Skinner Landfill	**Status:**	WP
Project Seq:	25743	**Created:**	12/3/04 11:07
Client:	4342 - Earth Tech	**QA:**	
Profile:	33490 - Skinner - Skinner Landfill	**PO:**	

WORKORDER SAMPLES

Container ID	Type	Preservative	pH PRESERVATIVE A	U	N/A	VOA HEADSPACE A	U	N/A	CONTAINER CONDITION
20412032001-1	40	HCL+SS			✓	✓			OK
20412032001-2	LA	NONE			X			X	OK
20412032001-3	LA	NONE			X			X	OK
20412032001-4	OC	HNO3	✓					X	OK
20412032001-5	LA	NaOH	✓					X	OK

Container ID	Type	Preservative	A	U	N/A	A	U	N/A	CONTAINER CONDITION
20412032002-1	40	HCL+SS			✓	✓			OK
20412032002-2	LA	NONE			X			X	OK
20412032002-3	LA	NONE			X			X	OK
20412032002-4	OC	HNO3	✓					X	OK
20412032002-5	LA	NaOH	✓					X	OK

Container ID	Type	Preservative	A	U	N/A	A	U	N/A	CONTAINER CONDITION
20412032003-1	40	HCL+SS			✓	✓			OK
20412032003-2	LA	NONE			X			X	OK
20412032003-3	LA	NONE			X			X	OK
20412032003-4	OC	HNO3	✓					X	OK
20412032003-5	LA	NaOH	✓					X	OK

Container ID	Type	Preservative	A	U	N/A	A	U	N/A	CONTAINER CONDITION
20412032004-1	40	HCL+SS			✓	✓			OK

Container ID	Type	Preservative	A	U	N/A	A	U	N/A	CONTAINER CONDITION
20412032005-1	40	HCL+SS			✓	✓			OK

Container ID	Type	Preservative	A	U	N/A	A	U	N/A	CONTAINER CONDITION
20412032006-1	40	HCL+SS			✓	✓			OK

Container ID	Type	Preservative	A	U	N/A	A	U	N/A	CONTAINER CONDIT
20412032007-1	OC	HNO3	✓					X	OK

DATA VALIDATION REPORT

FOR

SKINNER LANDFILL SITE

EARTH TECH: PROJECT NUMBER 54280

LABORATORY REPORT NUMBER 204121704

PROJECT MANAGER: Ron Rolker

Date: May 13, 2005

Revised Report Date: September 6, 2005

Data Validator: Mark Kromis

LIST OF ACRONYMS

BFB	Bromofluorobenzene
CC	Continuing Calibration
CCV	Continuing Calibration Verification
CCB	Continuing Calibration Blanks
CLP	Contract Laboratory Program
CRDL	Contract Required Detection Limit
DFTPP	Decafluorotriphenylphosphine
GC/MS	Gas Chromatograph Mass Spectrometer
IC	Initial Calibration
ICB	Initial Calibration Blank
IDL	Instrument Detection Limit
ICP	Inductively Coupled Plasma
ICS	Interference Check Sample
ICV	Initial Calibration Verification
ILM	Inorganic Analysis Multi-Media Multi-Concentration
INDAM	Individual A Mixture
INDBM	Individual B Mixture
mg/L	milligrams per liter
MS/MSD	Matrix Spike/Matrix Spike Duplicate
OLC	Organic Analysis Low Concentration
OLM	Organic Analysis Multi-Media Multi-Concentration
%D	Percent Difference
% RSD	Percent Relative Standard Deviation
PB	Preparation Blanks
QC	Quality Control
RF	Response Factor
RPD	Relative Percent Difference
RRF	Relative Response Factor
SDG	Sample Delivery Group
SOW	Statement of Work
µg/L	micrograms per liter
US EPA	United States Environmental Protection Agency
VOC	Volatile Organic Compounds
VTSR	Validated Time of Sample Receipt

CASE NARRATIVE

The Inorganic portion of this report was revised do to the submission of additional data for the metals that were not reported by GCAL in the original data package. The following metals were included in the resubmission: Aluminum, Calcium, Cobalt, Magnesium, Manganese, Potassium, Sodium, and Vanadium.

GCAL submitted corrected semi-volatile forms to include the extraction date and preparation date. The form 1's for semi-volatile and pesticide/ PCBs were submitted for sample SKGW07R1012 (20412170412).

The response #2 was added to page 540 and the %D was calculated and added to page 489.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204121704 INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in December 2004, was conducted by Earth Tech using the National Functional Guidelines for Inorganic Data Review, (US EPA, February, 1994), as appropriate. The results were reported by GCAL under Sample Delivery Group (SDG) 204121704.

GCAL #	Sample Description
20412170401	SKGW631012
20412170402	SKGW611012
20412170403	SKGW61MS1012
20412170405	SKGW6611012 (DUP)
20412170406	SKGW591012
20412170407	SKGW601012
20412170408	SKGW62A1012
20412170409	SKGW62B1012
20412170410	SKGW641012
20412170411	SKGW06R1012
20412170412	SKGW07R1012
20412170413	SKGWEB1012
20412170414	SKGWFB1012
20412170417	SKGW631012 (DISS)
20412170418	SKGW611012 (DISS)
20412170419	SKGW61MS1012 (DISS)
20412170420	SKGW6611012 (DUP) (DISS)
20412170421	SKGW591012 (DISS)
20412170422	SKGW601012 (DISS)
20412170423	SKGW62A1012 (DISS)
20412170424	SKGW641012 (DISS)
20412170425	SKGW06R1012 (DISS)
20412170426	SKGW07R1012 (DISS)
20412170427	SKGWEB1012 (DISS)
20412170428	SKGWFB1012 (DISS)

INTRODUCTION

Analyses of metals were performed according to Contract Laboratory Program (CLP)-Inorganic Analysis Multi-media Multi-concentration ILM04.1 Statement of Work (SOW). Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values maybe used without reservation. The laboratory to denote specific information regarding the analytical results uses various qualifier codes. The data validation process is intended to evaluate the data on a technical basis.

The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the inorganics data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Calibration
   A. Initial Calibration (IC)
   B. Continuing Calibration (CC)
3. Blanks
4. Inductively Coupled Plasma (ICP) Interference Check Sample
5. Laboratory Control Sample (LCS)
6. Duplicate Analysis
7. Spike Sample Analysis

8. ICP Serial Dilution

9. System Performance

10. Documentation

11. Overall Assessment

1. HOLDING TIMES

All samples for inorganics analyses were analyzed within the 180-day holding time for preserved aqueous samples. Mercury analyses were conducted within the 28-day holding time for aqueous samples undergoing CLP protocol. Cyanide analyses were conducted within the 14-day holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. CALIBRATION

A. Initial Calibration

The percent recoveries for the Initial Calibration Verification (ICV) standard were within Quality Control (QC) limits for all constituents.

B. Continuing Calibration

The percent recoveries for the Continuing Calibration Verification (CCV) standard were within QC limits for all constituents.

3. BLANKS

The Initial Calibration Blank (ICB), Continuing Calibration Blanks (CCB) and Preparation Blanks (PB) were analyzed at the appropriate frequencies. No constituents were detected in the ICB, CCB, and PB blanks above the corresponding Contract Required Detection Limit (CRDL) with the exception of Selenium in the ICB, and CCB #1. As per the National Functional Guidelines; sample results greater than the IDL but less than 5 times the amount found in any blank should be qualified as (U). Technically the samples should have been re-digested and re-analyzed for Selenium.

4. ICP INTERFERENCE CHECK SAMPLE

Results for the ICP analysis of the Interference Check Sample (ICS) solution AB were within 20% of the true value.

5. LABORATORY CONTROL SAMPLES

Recoveries were within the control limit (80-120%) for all constituents.

6. DUPLICATE ANALYSIS

The laboratory used sample SKGW611012 for the duplicate sample. The Relative Percent Difference (RPD) between the sample and duplicate results for the total and dissolved fractions were within the acceptance criteria (<20%) for all target compounds with the exception of Aluminum associated with the total fraction. As per the National Functional Guidelines, if the RPD acceptance criteria are exceeded then qualify detected results with for that analyte "J".

7. SPIKE SAMPLE ANALYSIS

The laboratory used sample SKGW611012 and SKGW611012 (dissolved) for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75%-125%) with the exception of Aluminum (38 %) in the total fraction. As per the National Functional Guidelines: if the percent recovery is less than 75 but greater than 30% qualify detected results for that analyte with "J" and non-detected results with "UJ".

8. ICP SERIAL DILUTION

As noted in the National Functional Guidelines: If the analyte concentration is at least 50 times above the IDL, its serial dilution analysis must then agree within 10% of the original determination after corrected for dilution. The serial dilution is performed to determine whether any significant chemical or physical interference's exist due to matrix effects. The serial dilution percent differences were within the acceptance criteria for all target analytes except of Aluminum, Barium, Iron, Magnesium, Potassium, and Zinc in the total fraction and Potassium in the dissolved fraction. As per the National Functional Guidelines, if the Serial Dilution acceptance criteria are exceeded then qualify detected results for that analyte with "J".

9. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

10. DOCUMENTATION

GCAL qualified the groundwater results (totals) for Selenium based on the RPD for duplicate samples. The RPD was within the acceptance criteria therefore the data validator crossed out the "*" qualifier associated with the Selenium results (total).

GCAL did not qualify the groundwater results for Zinc (total) based on the percent difference on the Form IX (serial dilution). The percent difference was outside the acceptance criteria therefore the data validator manually made the correction by qualifying the Zinc results with an "E" qualifier.

GCAL did not qualify the groundwater results for Magnesium (total) based on the percent difference on the Form I's. The percent difference was outside the acceptance criteria therefore the data validator manually made the correction by qualifying the Magnesium results with an "E" qualifier.

11. OVERALL ASSESSMENT

The percent recoveries for Arsenic in the Contract Required Detection Limit (CRDL) standards were 116.6%, 127.6%, 115.4%, and 106.9% for samples analyzed on 12/29/04.

The percent recoveries for Chromium in the Contract Required Detection Limit (CRDL) standards were 39.4%, 89.8%, and 89.9% for samples analyzed on 12/30/04.

The percent recoveries for Lead in the Contract Required Detection Limit (CRDL) standards were 99.5%, 123.2%, 81.8%, and 88.2% 12/29/04.

The percent recoveries for Lead in the Contract Required Detection Limit (CRDL) standards were 111.0%, 55.5%, and 58.3% for the samples analyzed on 12/30/04.

The percent recoveries for Selenium in the Contract Required Detection Limit (CRDL) standards were 112.1%, 85.3%, 91.8%, and 73.4% for the samples analyzed on 12/29/04.

The percent recoveries for Selenium in the Contract Required Detection Limit (CRDL) standards were 121.7%, 90.0%, and 69.0% for the samples analyzed on 12/30/04.

If the CRDL is greater than 120% then detected results greater than the IDL but less than two times the CRDL are qualified as estimated with "J". If the CRDL is below 80% then detected results are qualified as estimated with "J" and the non-detected results were qualified with "UJ".

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204121704 SEMIVOLATILE ORGANICS

Validation of the Gas Chromatograph/Mass Spectrometer (GC/MS) semi-volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in December 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999) as appropriate. The results were reported by GCAL under SDG 204121704.

GCAL #	Sample Description
20412170401	SKGW631012
20412170402	SKGW611012
20412170403	SKGW61MS1012
20412170404	SKGW61MSD1012
20412170406	SKGW591012
20412170407	SKGW601012
20412170408	SKGW62A1012
20412170410	SKGW641012
20412170411	SKGW06R1012
20412170412	SKGW07R1012
20412170413	SKGWEB1012
20412170414	SKGWFB1012

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. The laboratory to denote specific information regarding the analytical results uses various data qualifier codes. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the semivolatile data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Internal Standards Performance
8. Compound Identification
9. Constituent Quantitation and Reported Detection Limits
10. System Performance
11. Documentation
12. Overall Assessment

1. HOLDING TIMES

All samples were initially extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/MS TUNING

The samples were analyzed on a single GC/MS system, identified as MSSV3. Two decafluorotriphenylphosphine (DFTPP) tunes were run representing the shift in which the standards and samples were analyzed. The DFTPP tunes are acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 12/22/04 was analyzed in support of the semivolatile sample analyses. Documentation of the IC was present in the data package, and the Relative Response Factor (RRF), as well as percent % RSD values were accurately reported for all target compounds. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all semi-volatile compounds. The RRF's and the average RRF were within the acceptance criteria specified in the method for all reported analytes with the exception of 4-Chloroaniline. The %RSD's were within the acceptance criteria specified in the method for all target analytes with the exception of Hexachlorocyclopentadiene (38.7%), 2,4-Dinitrophenol (32.6%), and Diethylphthalate (33.6%). The lowest point of the calibration curve was dropped for Hexachlorocyclopentadiene and Diethylphthalate and the %RSD were recalculated. The recalculated %RSD were within the acceptance criteria of less than 30%. Hexachlorocyclopentadiene and Diethylphthalate were not detected in the associated samples therefore data qualification was not required.

As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R). It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds. If the %RSD is greater than 30.0% and the RRF is greater than 0.05, then qualify positive results with "J", and non-detected semivolatile target compounds using professional judgment.

B. Continuing Calibration

Two CC's dated 12/22/04 and 12/23/04 were analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRF's for the CC's were within the acceptance criteria with the exception of 4-Chloroaniline. The percent difference (%D) between the average RRF's and the CC Response Factors for the CC dated 12/22/04 were within the acceptance criteria with the exception of 2,4-Dinitrophenol (34.7%) and 4-Nitrophenol (25.5%).

The percent difference (%D) between the average RRF's and the CC Response Factors for the CC dated 12/23/04 were within the acceptance criteria with the exception of 4-Nitrophenol (25.5%).

As per the National Functional Guidelines, if the %D is greater than the acceptance limits then qualify positive results with "J" and non-detected results with "UJ".

4. BLANKS

One laboratory semivolatile method blank field blank, and equipment blank were analyzed with this SDG. The results are summarized below.

Method Blank (213532SBLK)

Bis-(2-ethylhexyl) phthalate (.699 ppb) and Di-n-butylphthalate (0.713 ppb) were detected in method blank extracted on 12/22/04.

Field Blank (SKGWEB1012)

Bis-(2-ethylhexyl) phthalate (1.12 ppb) and Di-n-butylphthalate (0.557 ppb) were detected in equipment collected on 12/15/04.

Equipment Blank (SKGWEB1012)

Bis-(2-ethylhexyl) phthalate (1.02 ppb) and Di-n-butylphthalate (0.676 ppb) were detected in equipment collected on 12/15/04.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported semivolatile system monitoring compounds (SMC) acid fraction were recovered within acceptable control limits with the exception of Phenol-6 associated with the samples SKGW601012 (5%) and SKGW62A1012 (5%) and 2,4,6-Tribromophenol associated with sample SKGW62A1012 (132%).

As per the National Functional Guidelines:

If two or more surrogates in either semivolatile fraction have a recovery greater than or equal to 10 percent but less than the lower acceptance limit (LL) then specify the fraction that is being qualified (i.e. acid, base/neutral, or both). Detected semivolatile target compounds are qualified "J" and non-detected semivolatile target compounds; the sample quantitation limit is qualified as approximated (UJ).

If any surrogates in either semivolatile fraction show less than 10 percent recovery then specify the fraction that is being qualified (i.e. acid, base neutral, or both). Detected semivolatile target compounds are qualified "J" and non-detected semivolatile target compounds may be qualified as unusable (R).

The data validator qualified the acid fractions for both samples as follows: the detected results were qualified with "J" and the non-detected results were qualified with "UJ".

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

Sample SKGW611012 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of the 2,4-Dinitrotoluene, 4-Nitrophenol, and Pentachlorophenol associated with the MSMSD. The %RPD between the MS/MSD are within the acceptance criteria. As per the National Functional Guidelines, no action is taken on MS/MSD data alone.

7. INTERNAL STANDARDS PERFORMANCE

Internal standard areas and retention times were within acceptable limits for the reported semivolatile sample analyses.

8. COMPOUND IDENTIFICATION

All reported semivolatile constituents were correctly identified with supporting chromatograms present in the data package.

9. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for semivolatile constituents

10. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data submitted for review.

11. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the preparation method and the Date Extracted off of the CLP Form 1's. The data validator manually wrote the preparation method and Date Extracted on the appropriate forms. GCAL also left the "B" qualifier off of the CLP Form 1's for the compound Bis-(2-ethylhexyl) phthalate and Di-n-butyphthalate therefore the data validator inserted a "B" qualifier in the "Q" column of the CLP Form 1's. The "B" qualifier indicates that the analyte was detected in the associated method blank.

12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204121704 VOLATILE ORGANIC

Validation of the GC/MS volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in December 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204121704.

GCAL #	Sample Description
20412170401	SKGW631012
20412170402	SKGW611012
20412170403	SKGW61MS1012
20412170404	SKGW61MSD1012
20412170406	SKGW591012
20412170407	SKGW601012
20412170408	SKGW62A1012
20412170410	SKGW641012
20412170411	SKGW06R1012
20412170412	SKGW07R1012
20412170413	SKGWEB1012
20412170414	SKGWFB1012
20412170415	SKGW651012
20412170416	SKTB1012
20412170429	VHBLK01

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Low Concentration OLC02.0 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. The laboratory to denote specific information regarding the analytical results uses various qualifier codes. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The volatiles data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Laboratory Control Sample
8. Internal Standards Performance
9. Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. System Performance
12. Documentation
13. Overall Assessment

1. HOLDING TIMES

All samples for Volatile Organic Compounds (VOC) analyses were analyzed within the 14-day technical holding time and the 10-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/MS TUNING

The samples were analyzed on one GC MS system, identified as MSV0. Two bromofluorobenzene (BFB) tunes were run. The BFB tunes are acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 12/20/04 was analyzed on instrument MSV0 in support of the volatile sample analyses reported in the data submissions. Documentation of the IC standards is present in the data package, and RRF's as well as %RSD values were accurately reported. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all volatile compounds. The %RSD's were within the acceptance criteria specified in the method for all target analytes.

The RRF's and the average RRF for the IC dated 12/20/04 were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone. The %RSD's were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone. As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R). It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds.

B. Continuing Calibration

Two CC's dated 12/20/04 and 12/21/04 were analyzed on instrument MSV0 in support of the volatile sample analyses reported in the data submissions. The percent difference (%D) between the average RRF's and the CC RF's were within the acceptance criteria for all target analytes. The CC RRF's were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone associated with the CC's dated 12/20/04 and 12/21/04. The Acetone results were previously qualified under section 3A above.

4. BLANKS

Two laboratory volatile method blanks, storage blank, Field Blank, and Equipment Blank were analyzed with this SDG. The results are summarized below.

MB213631

There were no target analytes detected in the method blank analyzed on 12/20/04.

MB213746

There were no target analytes detected in the method blank analyzed on 12/21/04.

Storage Blank (VHBLK01)

There were no target analytes detected in the storage blank analyzed on 12/21/04.

Field Blank (SKGWFB1012)

Methylene chloride (0.42 ppb), Ethylbenzene (0.11 ppb), Toluene (0.67 ppb), and Total Xylenes (0.57 ppb) were detected in the Field Blank collected on 12/15/04.

Equipment Blank (SKGWEB1012)

Methylene chloride (0.50 ppb), Ethylbenzene (0.086 ppb), Toluene (0.55 ppb), and Total Xylenes (0.46 ppb) were detected in the Equipment Blank collected on 12/15/04.

Trip Blank (SKTB1012)

There were no target analytes detected in the trip blank collected on 12/14/04.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported volatile system monitoring compounds were recovered within acceptable control limits (80%-120%) for all samples.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSW501012 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria.

7. LABORATORY CONTROL SAMPLE

A LCS/LCS duplicate and a LCS were analyzed in conjunction with this SDG. Recoveries were within the control limit for all constituents.

8. INTERNAL STANDARDS PERFORMANCE

Internal Standard (IS) areas and retention times were within acceptable limits for the reported volatile sample analyses.

9. COMPOUND IDENTIFICATION

All reported VOCs were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for VOCs.

11. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

12. DOCUMENTATION

The documentation appeared accurate and in order.

13. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY - SAMPLE DELIVERY GROUP 204121704 PESTICIDES

Validation of the Gas Chromatography (GC) pesticides data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in December 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204121704.

GCAL #	Sample Description
20412170401	SKGW631012
20412170402	SKGW611012
20412170403	SKGW61MS1012
20412170404	SKGW61MSD1012
20412170406	SKGW591012
20412170407	SKGW601012
20412170408	SKGW62A1012
20412170410	SKGW641012
20412170411	SKGW06R1012
20412170412	SKGW07R1012
20412170413	SKGWEB1012
20412170414	SKGWFB1012

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the pesticide data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Gas Chromatograph/Electronic Capture Detector (GC/ECD) Instrument Performance Check
3. IC
4. Calibration Verification
5. Blanks
6. Surrogate Spikes
7. Matrix Spike/Matrix Spike Duplicate (MS MSD)
8. Pesticide Cleanup Checks
9. Target Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. Documentation
12. Overall Assessment

1. HOLDING TIMES

All samples were originally extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C + - 2°C.

2. GC/ECD INSTRUMENT PERFORMANCE CHECK

The Performance Evaluation Mixture (PEM) was analyzed at the correct frequency. Absolute retention times were within limits.

The percent resolution between adjacent peaks was within QC limits for the Pesticide Analyte Resolution Check.

The percent resolution between adjacent peaks is within QC limits for the Performance Evaluation Mixtures (PEM). The percent breakdown for both 4,4'-DDT and Endrin in each PEM was less than 20.0% for both GC columns. The combined percent breakdown for 4,4'-DDT and Endrin in each PEM was less than 30.0% for both GC columns.

3. INITIAL CALIBRATION

Individual standard mixtures A and B were analyzed at the correct frequencies and concentrations. The percent resolution criterion was met for Individual standard mixtures A and B.

The Percent Relative Standard Deviation (%RSD) of the calibration factors for each of the single component pesticides was less than 20% with the exception of 4,4'-DDT (26.1%) associated with the samples analyzed on 1/5/05. The multi-component target compounds were analyzed separately on both columns at a single concentration level. Retention times were determined from a minimum of three peaks. As per the National Functional Guidelines, up to two single component target pesticides (other than the surrogates) per column may exceed the 20% limit but the %RSD must be less than 30.0%.

4. CALIBRATION VERIFICATION

Absolute retention times were within appropriate time retention windows. The percent difference for each of the pesticides and surrogates in the PEM's were within the acceptance criteria of ±25.0 percent.

5. BLANKS

One laboratory method blank, Field blank and an Equipment blank were analyzed with this SDG. The results are summarized below.

<u>Method Blank 213530</u>

No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 12/20/04.

Field Blank SKGWFB1012

No constituents were detected above the laboratory-reporting limit in the field blank collected on 12/15/04.

Equipment Blank SKGWEB1012

No constituents were detected above the laboratory-reporting limit in the equipment blank collected on 12/15/04.

6. SURROGATE SPIKES

Decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCX) surrogate spike recoveries were within the acceptance criteria (30% - 150%) for all samples except SKGW07R1012 (15% and 13%). As per the National Functional Guidelines, if the surrogate's recoveries are between 10 and 30 percent then qualify detected compounds with "J" and non-detected compounds with "UJ".

7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKGW611012 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of Lindane in the MS/MSD. All of the %RPD's between the MS/MSD exceeded the acceptance criteria. As per the National Functional Guidelines, no action is on MS/MSD data alone.

8. PESTICIDE CLEANUP CHECKS

Recoveries of all pesticides and surrogates were within 80-120% for the lot of Florisil cartridges utilized for pesticide cleanup.

9. TARGET COMPOUND IDENTIFICATION

All reported pesticide data were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for pesticide constituents.

11. DOCUMENTATION

The %D on page 489 was calculated incorrectly. The area counts were not reported under the column labeled Resp#2 on page 540. The Form 1 for sample SKGW07R1012 was missing from the hard copy report.

The laboratory was contacted and the revisions were made to the report.

12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

REFERENCES

US EPA, 1994. *National Functional Guidelines for Inorganic Data Review.*

US EPA, 1999. *National Functional Guidelines for Organic Data Review.*

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

NELAP CERTIFICATE NUMBER 01955

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 01/07/2005

GCAL Report 204121704

RESUBMITTED

Deliver To	Earth Tech 2373 Progress St Hebron, KY 41048 859-442-2300
Attn	Pat Higgins

Customer Earth Tech

Project Skinner Landfill

CASE NARRATIVE

Client: Earth Tech **Report:** 204121704

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

Selected pages of this report were re-submitted on 06/17/05. The pages are stamped corrected if a correction was made. The metals analyte list was revised to the complete TAL list. The revised metals forms are included as an addendum. The Semi-volatile forms were revised to include the extraction date and the prep method. The form 1s for Semi-volatiles and pesticides/PCBs have been submitted for sample 20412170412 (SKGW07R1012). The response #2 has been added to page 540. The %D has been calculated and is included on page 489.

SEMI-VOLATILES MASS SPECTROMETRY

In the OLM04.2 - CLP MS/MSD analysis for prep batch 285070, the recoveries for 2,4-Dinitrotoluene, 4-Nitrophenol, and Pentachlorophenol were above recovery limits.

In the OLM04.2 - CLP analysis, the surrogate recovery for Phenol-d5 was outside QC limits in samples 20412170407 (SKGW601012) and 20412170408 (SKGW62A1012). The recovery for 2,4,6-Tribromophenol was outside QC limits in sample 20412170408 (SKGW62A1012).

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the OLM04.2 - CLP analysis of sample 20412170412 (SKGW07R1012), the surrogates were outside suggested limits. This can be attributed to a matrix interference.

In the OLM04.2 - CLP Pest/PCB analysis for prep batch 285069, the MS/MSD exhibited sporadic recovery failures. These recoveries were within limits in the LCS and/or LCSD. This is attributed to a matrix interference.

METALS

In the ILM04.1 - CLP Metals analysis, the MS recovery is not applicable for Iron for prep batch 285336 because the sample concentration is greater than four times the spike concentration. The sample/duplicate RPD for Selenium and Antimony is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit. Aluminum, Barium, Iron, Magnesium, and Potassium are flagged as estimated due to the fact that the percent difference between the original sample result and the serial dilution result is greater than 10. A chemical or physical interference is suspected. The MS and/or MSD recovery was outside the control limits for Aluminum. The LCS recovery was within the control limits. This indicates the analysis is in control and the

sample is affected by matrix interference. The sample/duplicate RPD for Aluminum was outside the control limits. The heterogeneous nature of the QC sample is believed to be responsible for this.

In the ILM04.1 - CLP Metals analysis, the sample/duplicate RPD for Thallium, Selenium, and Antimony for prep batch 285337 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit. Potassium is flagged as estimated due to the fact that the percent difference between the original sample result and the serial dilution result is greater than 10. A chemical or physical interference is suspected.

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

SOW No.:

EPA Sample No	Lab Sample ID
SKGW631012	20412170401
SKGW611012	20412170402
SKGW61MS1012	20412170403
SKGW611012 (DUP)	20412170405
SKGW591012	20412170406
SKGW601012	20412170407
SKGW62A1012	20412170408
SKGW641012	20412170410
SKGW06R1012	20412170411
SKGW07R1012	20412170412
SKGWEB1012	20412170413
SKGWFB1012	20412170414
SKGW631012 (DISS)	20412170417
SKGW611012 (DISS)	20412170418
SKGW61MS1012 (DISS)	20412170419

Were ICP interelement corrections applied ? Yes / No YES

Were ICP background corrections applied ? Yes / No YES

If yes-were raw data generated before application of background corrections ? Yes / No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness for other than the conditions detailed above. Release of this data contained in this hardcopy data package and in the computer readable data submitted on the diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Mark Peterman Name: MARK PETERMAN

Date: 6/13/05 Title: METALS SUPERVISOR

RESUBMITTED

U.S. EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

SOW No.:

EPA Sample No	Lab Sample ID
SKGW61DUP1012 (DISS)	20412170420
SKGW591012 (DISS)	20412170421
SKGW601012 (DISS)	20412170422
SKGW62A1012 (DISS)	20412170423
SKGW641012 (DISS)	20412170424
SKGW06R1012 (DISS)	20412170425
SKGW07R1012 (DISS)	20412170426
SKGWEB1012 (DISS)	20412170427
SKGWFB1012 (DISS)	20412170428

Were ICP interelement corrections applied ?	Yes / No	YES
Were ICP background corrections applied ?	Yes / No	YES
If yes-were raw data generated before application of background corrections ?	Yes / No	NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness for other than the conditions detailed above. Release of this data contained in this hardcopy data package and in the computer readable data submitted on the diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Mark Peterman Name: MARK PETERMAN

Date:: 6/13/05 Title: METALS SUPERVISOR

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW631012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil / water) Water Lab Sample ID: 20412170401

Level (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	30700		N,*,E	P	J
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	74.0			P	J
7440-39-3	Barium	244		E	P	J
7440-41-7	Beryllium	1.7	B		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	752000			P	
7440-47-3	Chromium	41.9			P	
7440-48-4	Cobalt	38.6	B		P	
7440-50-8	Copper	43.0			P	
7439-89-6	Iron	69600		E	P	J
7439-92-1	Lead	46.6			P	J
7439-95-4	Magnesium	106000		E	P	J
7439-96-5	Manganese	6160			P	
7439-97-6	Mercury	0.1	B		AV	
7440-02-0	Nickel	68.7			P	
7440-09-7	Potassium	16100		E	P	J
7782-49-2	Selenium	12.3			P	UJ
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	53100			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	74.1			P	
7440-66-6	Zinc	199		E	P	J
57-12-5	Cyanide	0.5	U		AS	

9/6/05
MCA

Color Before: DK.BROWN Clarity Before: CLEAR Texture:

Color After: DK.BROWN Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW611012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil / water) Water Lab Sample ID: 20412170402

Level: (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	6330		N,*,E	P	J
7440-36-0	Antimony	4.3	B		P	
7440-38-2	Arsenic	40.5			P	J
7440-39-3	Barium	121	B	E	P	J
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	237000			P	
7440-47-3	Chromium	12.3			P	
7440-48-4	Cobalt	5.8	B		P	
7440-50-8	Copper	8.0	B		P	
7439-89-6	Iron	16100		E	P	J
7439-92-1	Lead	4.7			P	J
7439-95-4	Magnesium	45600		E	P	J
7439-96-5	Manganese	754			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	14.8	B		P	
7440-09-7	Potassium	10400		E	P	J
7782-49-2	Selenium	5.2			P	U
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	57400			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	21.7	B		P	
7440-66-6	Zinc	39.5		E	P	J
57-12-5	Cyanide	0.5	U		AS	

9/6/05
MSR

Color Before: LT.BROWN Clarity Before: CLEAR Texture:

Color After: LT.BROWN Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW61MS1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil / water) Water Lab Sample ID: 20412170403

Level (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	7100		N,*,E	P	J
7440-36-0	Antimony	93.8			P	
7440-38-2	Arsenic	83.4			P	J
7440-39-3	Barium	2100		E	P	J
7440-41-7	Beryllium	52.9			P	
7440-43-9	Cadmium	48.7			P	
7440-70-2	Calcium	244000			P	
7440-47-3	Chromium	209			P	
7440-48-4	Cobalt	498			P	
7440-50-8	Copper	257			P	
7439-89-6	Iron	17500		E	P	J
7439-92-1	Lead	23.9			P	J
7439-95-4	Magnesium	49800		E	P	J
7439-96-5	Manganese	1250			P	
7439-97-6	Mercury	5.5			AV	
7440-02-0	Nickel	507			P	
7440-09-7	Potassium	9280		E	P	J
7782-49-2	Selenium	16.5		✓	P	UJ
7440-22-4	Silver	47.5			P	
7440-23-5	Sodium	54000			P	
7440-28-0	Thallium	49.0			P	
7440-62-2	Vanadium	526			P	
7440-66-6	Zinc	534		E	P	J
57-12-5	Cyanide	93.9			AS	

9/6/05
ROSA

Color Before: LT.BROWN Clarity Before: CLEAR Texture:

Color After: LT.BROWN Clarity After: CLEAR Artifacts:

Comments:

SUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW611012 (DUP)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: (soil / water) Water Lab Sample ID: 20412170405

Level: (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	4500		N,*,E	P	J
7440-36-0	Antimony	7.0	B		P	
7440-38-2	Arsenic	41.1			P	J
7440-39-3	Barium	110	B	E	P	J
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	226000			P	
7440-47-3	Chromium	10.4			P	
7440-48-4	Cobalt	5.8	B		P	
7440-50-8	Copper	7.2	B		P	
7439-89-6	Iron	14900		E	P	J
7439-92-1	Lead	4.1			P	J
7439-95-4	Magnesium	44400		E	P	J
7439-96-5	Manganese	719			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	13.9	B		P	
7440-09-7	Potassium	9300		E	P	J
7782-49-2	Selenium	4.4	U		P	U
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	55100			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	18.3	B		P	
7440-66-6	Zinc	36.2		E	P	J
57-12-5	Cyanide	0.5	U		AS	

9/6/05
MSK

Color Before: LT.BROWN Clarity Before: CLEAR Texture:

Color After: LT.BROWN Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW591012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil / water) Water Lab Sample ID: 20412170406

Level: (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	1040		N,*,E	P	J
7440-36-0	Antimony	4.2	B		P	
7440-38-2	Arsenic	28.2			P	J
7440-39-3	Barium	44.6	B	E	P	J
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	211000			P	
7440-47-3	Chromium	6.8	B		P	
7440-48-4	Cobalt	2.1	B		P	
7440-50-8	Copper	2.7	B		P	
7439-89-6	Iron	4260		E	P	J
7439-92-1	Lead	2.4	U		P	
7439-95-4	Magnesium	40400		E	P	J
7439-96-5	Manganese	295			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	6.6	B		P	
7440-09-7	Potassium	33700		E	P	J
7782-49-2	Selenium	4.4	U	/	P	U
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	127000			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	10.6	B		P	
7440-66-6	Zinc	15.0	B	E	P	J
57-12-5	Cyanide	0.5	U		AS	

9/6/05
MJK

Color Before: LT.YELLOW Clarity Before: CLEAR Texture:

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW601012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil / water) Water Lab Sample ID: 20412170407

Level: (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	23700		N,*,E	P	J
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	49.4			P	J
7440-39-3	Barium	159	B	E	P	J
7440-41-7	Beryllium	1.3	B		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	337000			P	
7440-47-3	Chromium	44.0			P	
7440-48-4	Cobalt	25.3	B		P	
7440-50-8	Copper	25.4			P	
7439-89-6	Iron	58100		E	P	J
7439-92-1	Lead	35.0			P	J
7439-95-4	Magnesium	62200		E	P	J
7439-96-5	Manganese	1880			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	50.1			P	
7440-09-7	Potassium	17600		E	P	J
7782-49-2	Selenium	9.9			P	U
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	89000			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	55.0			P	
7440-66-6	Zinc	140		E	P	J
57-12-5	Cyanide	0.5	U		AS	

9/16/05
MSU

Color Before: DK.BROWN Clarity Before: CLEAR Texture:

Color After: DK.BROWN Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW62A1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil / water) Water Lab Sample ID: 20412170408

Level (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	12400		N,*,E	P	J
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	37.6			P	
7440-39-3	Barium	363		E	P	J
7440-41-7	Beryllium	0.5	B		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	239000			P	
7440-47-3	Chromium	33.9			P	
7440-48-4	Cobalt	13.9	B		P	
7440-50-8	Copper	25.1			P	
7439-89-6	Iron	31900		E	P	J
7439-92-1	Lead	23.9			P	J
7439-95-4	Magnesium	68800		E	P	J
7439-96-5	Manganese	1030			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	35.1	B		P	
7440-09-7	Potassium	13800		E	P	J
7782-49-2	Selenium	8.1			P	U
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	118000			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	37.1	B		P	
7440-66-6	Zinc	97.8		E	P	J
57-12-5	Cyanide	0.5	U		AS	

9/16/05
RJR

Color Before: LT.BROWN Clarity Before: CLEAR Texture:

Color After: LT.BROWN Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW641012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil / water) Water Lab Sample ID: 20412170410

Level: (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	15100		N,*,E	P	J
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	36.4			P	J
7440-39-3	Barium	68.7	B	E	P	J
7440-41-7	Beryllium	0.8	B		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	245000			P	
7440-47-3	Chromium	28.7			P	
7440-48-4	Cobalt	17.2	B		P	
7440-50-8	Copper	17.7	B		P	
7439-89-6	Iron	38600		E	P	J
7439-92-1	Lead	15.1			P	J
7439-95-4	Magnesium	74100		E	P	J
7439-96-5	Manganese	2530			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	42.9			P	
7440-09-7	Potassium	21200		E	P	J
7782-49-2	Selenium	5.1		/	P	U
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	56300			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	40.8	B		P	
7440-66-6	Zinc	83.1		E	P	J
57-12-5	Cyanide	0.5	U		AS	

9/6/05
MSM

Color Before: LT.BROWN Clarity Before: CLEAR Texture:

Color After: LT.BROWN Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW06R1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil / water) Water Lab Sample ID: 20412170411

Level (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2890		N,*,E	P	J
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	34.6			P	J
7440-39-3	Barium	232		E	P	J
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	217000			P	
7440-47-3	Chromium	6.1	B		P	
7440-48-4	Cobalt	6.0	B		P	
7440-50-8	Copper	5.0	B		P	
7439-89-6	Iron	9100		E	P	J
7439-92-1	Lead	3.3			P	J
7439-95-4	Magnesium	42100		E	P	J
7439-96-5	Manganese	585			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	8.1	B		P	
7440-09-7	Potassium	3320	B	E	P	J
7782-49-2	Selenium	6.6			P	U
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	21900			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	16.1	B		P	
7440-66-6	Zinc	20.4		E	P	J
57-12-5	Cyanide	0.5	U		AS	

7/6/05
MSU

Color Before: LT.YELLOW Clarity Before: CLEAR Texture:

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW07R1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: (soil / water) Water Lab Sample ID: 20412170412

Level: (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	7040		N,*,E	P	J
7440-36-0	Antimony	4.0	B		P	
7440-38-2	Arsenic	45.1			P	J
7440-39-3	Barium	319		E	P	J
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	392000			P	
7440-47-3	Chromium	12.8			P	
7440-48-4	Cobalt	5.3	B		P	
7440-50-8	Copper	15.2	B		P	
7439-89-6	Iron	17600		E	P	J
7439-92-1	Lead	6.7			P	J
7439-95-4	Magnesium	66900		E	P	J
7439-96-5	Manganese	570			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	14.6	B		P	
7440-09-7	Potassium	6590		E	P	J
7782-49-2	Selenium	12.0		/	P	UL
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	48500			P	
7440-28-0	Thallium	7.7	B		P	
7440-62-2	Vanadium	26.8	B		P	
7440-66-6	Zinc	50.3		E	P	J
57-12-5	Cyanide	0.5	U		AS	

9/6/05
MJU

Color Before: LT.BROWN Clarity Before: CLEAR Texture:

Color After: LT.BROWN Clarity After: CLEAR Artifacts:

Comments:

SUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGWEB1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil / water) Water Lab Sample ID: 20412170413

Level (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	55.3	U	N,*,E	P
7440-36-0	Antimony	3.9	U		P
7440-38-2	Arsenic	5.4	U		P
7440-39-3	Barium	0.3	U	E	P
7440-41-7	Beryllium	0.2	U		P
7440-43-9	Cadmium	0.3	U		P
7440-70-2	Calcium	54.5	B		P
7440-47-3	Chromium	1.5	U		P
7440-48-4	Cobalt	0.6	U		P
7440-50-8	Copper	1.2	U		P
7439-89-6	Iron	12.5	B	E	P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	66.9	U		P
7439-96-5	Manganese	0.6	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	97.8	U	E	P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.9	U		P
7440-23-5	Sodium	340	U		P
7440-28-0	Thallium	6.3	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	0.7	U	E	P
57-12-5	Cyanide	0.5	U		AS

UJ

9/16/05 MSR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGWFB1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil / water) Water Lab Sample ID: 20412170414

Level: (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	55.3	U	N,*,E	P
7440-36-0	Antimony	3.9	U		P
7440-38-2	Arsenic	5.4	U		P
7440-39-3	Barium	0.3	U	E	P
7440-41-7	Beryllium	0.2	U		P
7440-43-9	Cadmium	0.3	U		P
7440-70-2	Calcium	23.3	B		P
7440-47-3	Chromium	1.5	U		P
7440-48-4	Cobalt	0.6	U		P
7440-50-8	Copper	1.2	U		P
7439-89-6	Iron	9.1	U	E	P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	66.9	U		P
7439-96-5	Manganese	0.6	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	97.8	U	E	P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.9	U		P
7440-23-5	Sodium	340	U		P
7440-28-0	Thallium	6.3	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	0.7	U	E	P
57-12-5	Cyanide	0.5	U		AS

UJ

9/6/05
MSK

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW631012 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil / water) Water Lab Sample ID: 20412170417

Level (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	55.3	U		P
7440-36-0	Antimony	6.2	B		P
7440-38-2	Arsenic	30.4			P J
7440-39-3	Barium	41.3	B		P
7440-41-7	Beryllium	0.2	U		P
7440-43-9	Cadmium	0.3	U		P
7440-70-2	Calcium	252000			P
7440-47-3	Chromium	3.2	B		P
7440-48-4	Cobalt	2.6	B		P
7440-50-8	Copper	1.2	U		P
7439-89-6	Iron	1220			P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	57900			P
7439-96-5	Manganese	1970			P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	3.8	B		P
7440-09-7	Potassium	8450		E	P J
7782-49-2	Selenium	6.8			P
7440-22-4	Silver	0.9	U		P
7440-23-5	Sodium	50700			P
7440-28-0	Thallium	6.3	U		P
7440-62-2	Vanadium	10.9	B		P
7440-66-6	Zinc	0.7	U		P

2/6/05
MSK

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW-61 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: (soil / water) Water Lab Sample ID: 20412170418

Level: (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	7.5	B		P	
7440-38-2	Arsenic	31.2			P	J
7440-39-3	Barium	65.6	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	216000			P	
7440-47-3	Chromium	1.9	B		P	
7440-48-4	Cobalt	1.6	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	1310			P	
7439-92-1	Lead	2.4	U		P	
7439-95-4	Magnesium	41500			P	
7439-96-5	Manganese	564			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	3.6	B		P	
7440-09-7	Potassium	8360		E	P	J
7782-49-2	Selenium	4.5	B		P	
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	56600			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	8.8	B		P	
7440-66-6	Zinc	0.7	U		P	

9/6/05
MLM

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW61MS1012 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil / water) Water Lab Sample ID: 20412170419

Level: (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2030			P	
7440-36-0	Antimony	115			P	
7440-38-2	Arsenic	76.4			P	J
7440-39-3	Barium	2110			P	
7440-41-7	Beryllium	54.6			P	
7440-43-9	Cadmium	49.9			P	
7440-70-2	Calcium	216000			P	
7440-47-3	Chromium	208			P	
7440-48-4	Cobalt	502			P	
7440-50-8	Copper	259			P	
7439-89-6	Iron	2330			P	
7439-92-1	Lead	17.0			P	J
7439-95-4	Magnesium	39800			P	
7439-96-5	Manganese	1110			P	
7439-97-6	Mercury	5.2			AV	
7440-02-0	Nickel	501			P	
7440-09-7	Potassium	8780		E	P	J
7782-49-2	Selenium	15.2			P	
7440-22-4	Silver	53.4			P	
7440-23-5	Sodium	58900			P	
7440-28-0	Thallium	54.0			P	
7440-62-2	Vanadium	534			P	
7440-66-6	Zinc	501			P	

9/6/05
MSA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW61DUP1012 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil / water) Water Lab Sample ID: 20412170420

Level: (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	5.6	B		P	
7440-38-2	Arsenic	35.5			P	J
7440-39-3	Barium	63.3	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	213000			P	
7440-47-3	Chromium	2.2	B		P	
7440-48-4	Cobalt	1.8	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	1250			P	
7439-92-1	Lead	2.4	U		P	
7439-95-4	Magnesium	40000			P	
7439-96-5	Manganese	546			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	3.6	B		P	
7440-09-7	Potassium	8090		E	P	J
7782-49-2	Selenium	4.4	U		P	
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	54100			P	
7440-28-0	Thallium	7.5	B		P	
7440-62-2	Vanadium	8.3	B		P	
7440-66-6	Zinc	0.7	U		P	

7/6/05
MSA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW591012 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: (soil / water) Water Lab Sample ID: 20412170421

Level: (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	5.7	B		P	
7440-38-2	Arsenic	28.5			P	J
7440-39-3	Barium	23.0	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	217000			P	
7440-47-3	Chromium	2.4	B		P	
7440-48-4	Cobalt	0.7	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	9.1	U		P	
7439-92-1	Lead	2.4	U		P	
7439-95-4	Magnesium	44200			P	
7439-96-5	Manganese	1.3	B		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.2	B		P	
7440-09-7	Potassium	32500		E	P	J
7782-49-2	Selenium	4.4	U		P	
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	134000			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	8.6	B		P	
7440-66-6	Zinc	0.7	U		P	

9/7/05
[illegible]

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW601012 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil / water) Water Lab Sample ID: 20412170422

Level: (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	7.4	B		P	
7440-38-2	Arsenic	35.4			P	J
7440-39-3	Barium	85.2	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	298000			P	
7440-47-3	Chromium	3.0	B		P	
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	9.1	U		P	
7439-92-1	Lead	2.4	U		P	
7439-95-4	Magnesium	50800			P	
7439-96-5	Manganese	1.0	B		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.2	B		P	
7440-09-7	Potassium	13100		E	P	J
7782-49-2	Selenium	6.8			P	
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	89800			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	9.9	B		P	
7440-66-6	Zinc	0.7	U		P	

9/7/05
MSK

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW62A1012 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil / water) Water Lab Sample ID: 20412170423

Level (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	55.3	U		P
7440-36-0	Antimony	5.4	B		P
7440-38-2	Arsenic	16.5			P J
7440-39-3	Barium	68.5	B		P
7440-41-7	Beryllium	0.2	U		P
7440-43-9	Cadmium	0.3	U		P
7440-70-2	Calcium	88000			P
7440-47-3	Chromium	3.3	B		P
7440-48-4	Cobalt	0.6	U		P
7440-50-8	Copper	1.2	U		P
7439-89-6	Iron	10.2	B		P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	32700			P
7439-96-5	Manganese	9.7	B		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	6680		E	P J
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.9	U		P
7440-23-5	Sodium	77000			P
7440-28-0	Thallium	6.3	U		P
7440-62-2	Vanadium	8.2	B		P
7440-66-6	Zinc	5.2	B		P

9/27/05

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW641012 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: (soil / water) Water Lab Sample ID: 20412170424

Level: (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	5.9	B		P	
7440-38-2	Arsenic	23.6			P	J
7440-39-3	Barium	28.3	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	173000			P	
7440-47-3	Chromium	2.6	B		P	
7440-48-4	Cobalt	1.1	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	9.1	U		P	
7439-92-1	Lead	2.4	U		P	
7439-95-4	Magnesium	58000			P	
7439-96-5	Manganese	830			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	9.4	B		P	
7440-09-7	Potassium	18000		E	P	J
7782-49-2	Selenium	4.4	U		P	
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	56200			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	9.6	B		P	
7440-66-6	Zinc	0.7	U		P	

9/7/05
MIA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW06R1012 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil / water) Water Lab Sample ID: 20412170425

Level (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	4.1	B		P	
7440-38-2	Arsenic	26.7			P	J
7440-39-3	Barium	179	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	193000			P	
7440-47-3	Chromium	1.5	U		P	
7440-48-4	Cobalt	2.9	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	1210			P	
7439-92-1	Lead	2.4	U		P	
7439-95-4	Magnesium	31300			P	
7439-96-5	Manganese	363			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	2.5	B		P	
7440-09-7	Potassium	2510	B	E	P	J
7782-49-2	Selenium	4.4	U		P	
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	22000			P	
7440-28-0	Thallium	8.1	B		P	
7440-62-2	Vanadium	6.7	B		P	
7440-66-6	Zinc	0.7	U		P	

2/21-5

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW07R1012 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: (soil / water) Water Lab Sample ID: 20412170426

Level: (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	35.8			P	J
7440-39-3	Barium	46.7	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	367000			P	
7440-47-3	Chromium	1.7	B		P	
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	9.1	U		P	
7439-92-1	Lead	2.4	U		P	
7439-95-4	Magnesium	52300			P	
7439-96-5	Manganese	49.8			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.8	B		P	
7440-09-7	Potassium	5000		E	P	J
7782-49-2	Selenium	8.5			P	
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	48200			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	8.5	B		P	
7440-66-6	Zinc	0.7	U		P	

9/7/06
MSK

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGWEB1012 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil / water) Water Lab Sample ID: 20412170427

Level: (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	221			P
7440-36-0	Antimony	3.9	U		P
7440-38-2	Arsenic	5.4	U		P
7440-39-3	Barium	0.3	U		P
7440-41-7	Beryllium	0.2	U		P
7440-43-9	Cadmium	0.3	U		P
7440-70-2	Calcium	43.9	B		P
7440-47-3	Chromium	1.5	U		P
7440-48-4	Cobalt	0.6	U		P
7440-50-8	Copper	1.2	U		P
7439-89-6	Iron	9.1	U		P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	66.9	U		P
7439-96-5	Manganese	0.6	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	97.8	U	E	P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.9	U		P
7440-23-5	Sodium	340	U		P
7440-28-0	Thallium	6.3	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	0.7	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGWFB1012 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil / water) Water Lab Sample ID: 20412170428

Level: (low / med) Date Received: 12/17/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	55.3	U		P
7440-36-0	Antimony	3.9	U		P
7440-38-2	Arsenic	5.4	U		P
7440-39-3	Barium	0.3	U		P
7440-41-7	Beryllium	0.2	U		P
7440-43-9	Cadmium	0.3	U		P
7440-70-2	Calcium	32.5	B		P
7440-47-3	Chromium	1.5	U		P
7440-48-4	Cobalt	0.6	U		P
7440-50-8	Copper	1.2	U		P
7439-89-6	Iron	13.6	B		P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	66.9	U		P
7439-96-5	Manganese	0.6	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	1.1	U		P
7440-09-7	Potassium	97.8	U	E	P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.9	U		P
7440-23-5	Sodium	340	U		P
7440-28-0	Thallium	6.3	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	0.7	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Initial Calibration Source: 125-3-1 EXAXOL/125-31-2 CPI/125-33-1 CPI/EXAXOL/125-38-2 CPI

Continuing Calibration Source: 125-31-1 EXAXOL/125-34-1 INORGANIC VENTURES

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration Verification					
Analyte	True	Found	%R (1)	True	Found	%R 1	Found	%R 2	M
Aluminum	10000	9850	99	5000	5060	101	5090	102	P
Antimony	1000	966	97	500	485	97	480	96	P
Arsenic	1000	974	97	500	491	98	497	99	P
Barium	1000	1010	101	500	501	100	496	99	P
Beryllium	1000	976	98	500	499	100	505	101	P
Cadmium	1000	978	98	500	495	99	491	98	P
Calcium	10000	9610	96	5000	5100	102	5180	104	P
Chromium	1000	986	99	500	499	100	495	99	P
Cobalt	1000	966	97	500	495	99	501	100	P
Copper	1000	988	99	500	505	101	494	99	P
Iron	10000	9460	95	5000	5050	101	5070	101	P
Lead	1000	984	98	500	504	101	510	102	P
Magnesium	10000	9850	99	5000	5140	103	5050	101	P
Manganese	1000	990	99	500	505	101	503	101	P
Mercury	5.0	5.2	105	5.0	4.9	98	4.9	97	AV
Nickel	1000	984	98	500	493	99	497	99	P
Potassium	10000	9640	96	10000	9560	96	9810	98	P
Selenium	1000	968	97	500	492	98	495	99	P
Silver	1000	1000	100	500	505	101	493	99	P
Sodium	10000	9990	100	20000	19500	98	20600	103	P
Thallium	1000	994	99	500	510	102	507	101	P
Vanadium	1000	983	98	500	499	100	494	99	P
Zinc	1000	962	96	500	491	98	489	98	P
Cyanide	200	196	98	100	93	93	94	94	AS

(1) Control Limits: Mercury 80-120; other metals 90-110; Cyanide 85-115

RESUBMITTED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW631012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170401

Level: (low/med) Lab File ID: 2041220P/T8552

% Moisture: not dec. Date Collected: 12/16/04 Time: 0925

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/20/04 Time: 1750

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285198

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

R

5/18/05 MM

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW631012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170401

Level: (low/med) Lab File ID: 2041220P/T8552

% Moisture: not dec. Date Collected: 12/16/04 Time: 0825

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/20/04 Time: 1750

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285198

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW631012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: Water Lab Sample ID: 20412170401

Sample wt/vol: Units: Lab File ID: 2041220P/T8552

Level: (low/med) Date Collected: 12/16/04 Time: 0925

% Moisture: not dec. Date Received: 12/17/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/20/04 Time: 1750

Instrument ID: MSV0 Dilution Factor: 1 Analyst: KCB

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 9

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		Unknown	2.19	1.3	
2.		Unknown	2.342	1.19	
3.		Unknown	2.923	.743	
4.		Unknown	3.227	.451	
5.	75-18-3	Dimethyl sulfide	3.915	.136	
6.	110-54-3	Hexane	4.715	.301	
7.	10420-90-3	1,3-Hexadien-5-yne	6.156	.338	
8.	10574-37-5	2-Pentene, 2,3-dimethyl-	6.731	.524	
9.	589-90-2	Cyclohexane, 1,4-dimethyl-	7.445	.155	

GCAL, Inc.

Data file : /var/chem/msv0.i/2041220p.s.b/t8552.d
Lab Smp Id: 20412170401 Client Smp ID: SKGW631012
Inj Date : 20-DEC-2004 17:50
Operator : KCB Inst ID: msv0.i
Smp Info : 20412170401*SKGW631012
Misc Info : MSV-5617-*1*KCB
Comment :
Method : /var/chem/msv0.i/2041220p.s.b/clp2.1w0.m
Meth Date : 20-Dec-2004 15:48 kcb Quant Type: ISTD
Cal Date : 20-DEC-2004 14:44 Cal File: t8544.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	25.00000	ng unit correction factor
Vo	25.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 19 1,4-Difluorobenzene	114	6.453	6.452	(1.000)	329164	5.00000	
* 32 Chlorobenzene-d5	82	8.595	8.594	(1.000)	179540	5.00000	
$ 39 Bromofluorobenzene	174	9.402	9.400	(1.457)	92203	4.85388	4.8
* 42 1,4-DICHLOROBENZENE-D4	152	10.162	10.161	(1.000)	124569	5.00000	

Data File: /var/chem/msv0.i/2041220p.s.b/t8552.d

Date : 20-DEC-2004 17:50

Client ID: SKGW631012

Instrument: msv0.i

Sample Info: 20412170401*SKGW631012

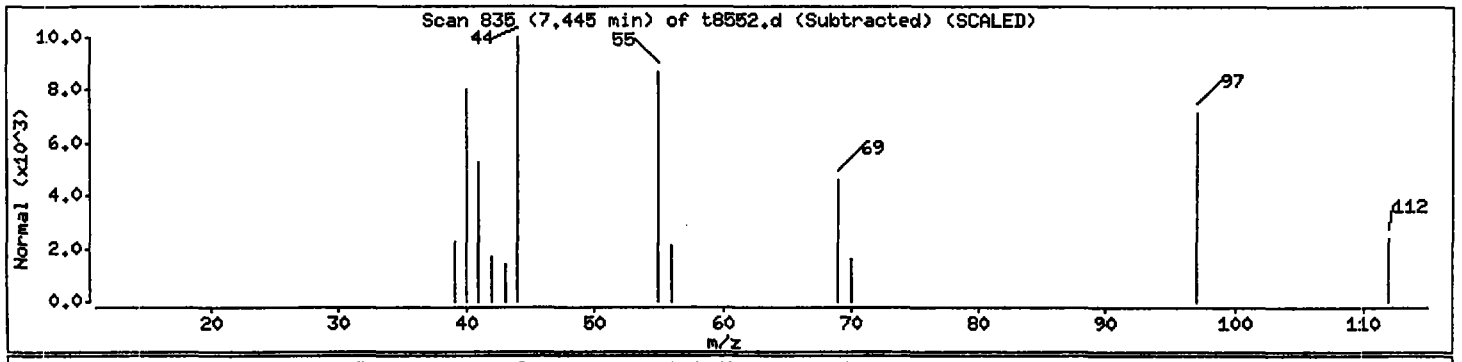
Purge Volume: 25.0

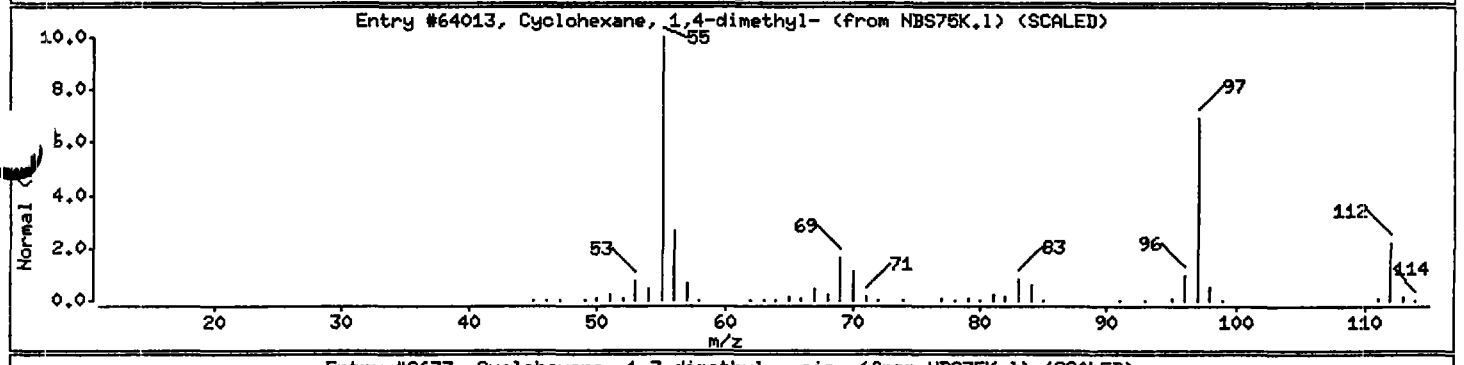
Operator: KCB

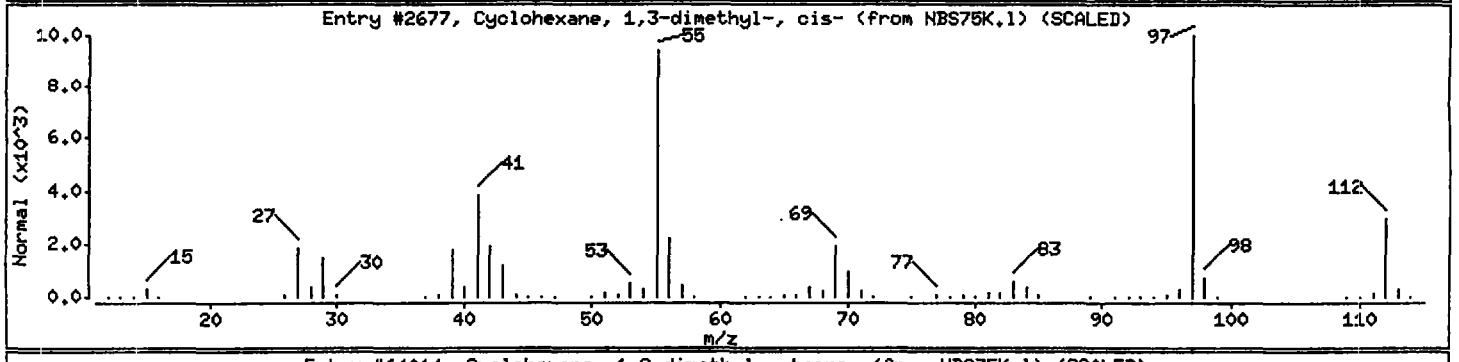
Column phase: DB-624-30M

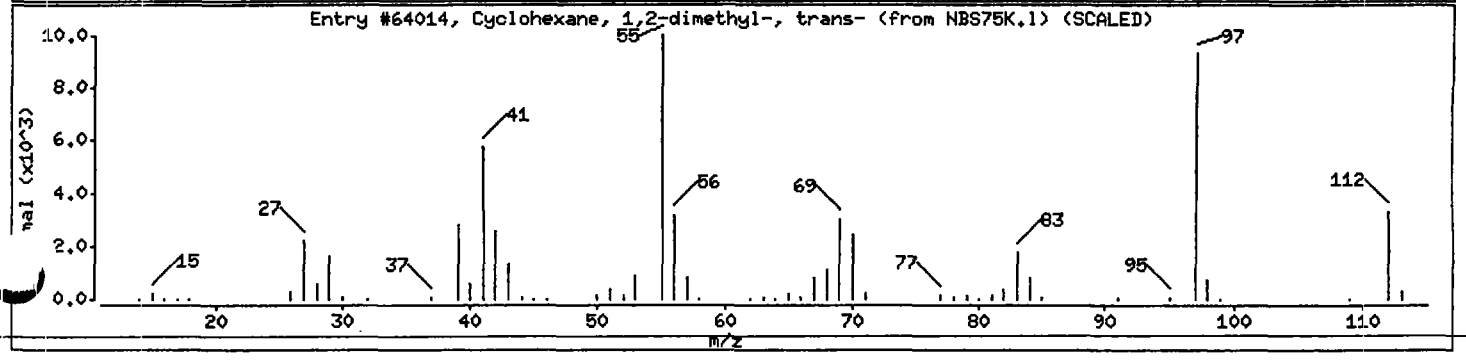
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, 1,4-dimethyl-	589-90-2	NBS75K.l	64013	90	C8H16	112
Cyclohexane, 1,3-dimethyl-, cis-	638-04-0	NBS75K.l	2677	43	C8H16	112
Cyclohexane, 1,2-dimethyl-, trans-	6876-23-9	NBS75K.l	64014	43	C8H16	112









1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW611012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170402

Level: (low/med) Lab File ID: 2041220P/T8553

% Moisture: not dec. Date Collected: 12/16/04 Time: 0955

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/20/04 Time: 1812

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285198

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

R

5/12/05 mr

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW611012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170402

Level: (low/med) Lab File ID: 2041220P/T8553

% Moisture: not dec. Date Collected: 12/16/04 Time: 0955

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/20/04 Time: 1812

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285198

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW611012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: Water Lab Sample ID: 20412170402

Sample wt/vol: Units: Lab File ID: 2041222P/T8553

Level: (low/med) Date Collected: 12/16/04 Time: 0955

% Moisture: not dec. Date Received: 12/17/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/20/04 Time: 1812

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW591012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170406

Level: (low/med) Lab File ID: 2041220P/T8557

% Moisture: not dec. Date Collected: 12/15/04 Time: 1138

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/20/04 Time: 1943

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285198

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	0.18	J	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

R

5/13/05 MR

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW591012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170406

Level: (low/med) Lab File ID: 2041220P/T8557

% Moisture: not dec. Date Collected: 12/15/04 Time: 1138

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/20/04 Time: 1943

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285198

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW591012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: Water Lab Sample ID: 20412170406

Sample wt/vol: Units: Lab File ID: 2041220P/T8557

Level: (low/med) Date Collected: 12/15/04 Time: 1138

% Moisture: not dec. Date Received: 12/17/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/20/04 Time: 1943

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

GCAL, Inc.

Data file : /var/chem/msv0.i/2041220p.s.b/t8557.d
Lab Smp Id: 20412170406 Client Smp ID: SKGW591012
Inj Date : 20-DEC-2004 19:43
Operator : KCB Inst ID: msv0.i
Smp Info : 20412170406*SKGW591012
Misc Info : MSV-5617-*1*KCB
Comment :
Method : /var/chem/msv0.i/2041220p.s.b/clp2.1w0.m
Meth Date : 20-Dec-2004 15:48 kcb Quant Type: ISTD
Cal Date : 20-DEC-2004 14:44 Cal File: t8544.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	25.00000	ng unit correction factor
Vo	25.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
10 1,1-Dichloroethane ++	63	4.964	4.978	(0.772	7207	0.17662	0.18(a)
• 19 1,4-Difluorobenzene	114	6.458	6.452	(1.000	320683	5.00000	
• 32 Chlorobenzene-d5	82	8.593	8.594	(1.000	173705	5.00000	
$ 39 Bromofluorobenzene	174	9.400	9.400	(1.456	88677	4.79172	4.8
• 42 1,4-DICHLOROBENZENE-D4	152	10.166	10.161	(1.000	117869	5.00000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW601012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170407

Level: (low/med) Lab File ID: 2041220P/T8558

% Moisture: not dec. Date Collected: 12/15/04 Time: 1157

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/20/04 Time: 2006

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285198

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0	
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0	
78-93-3	2-Butanone	5.0	U	0.010	5.0	
591-78-6	2-Hexanone	5.0	U	0.010	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0	
67-64-1	Acetone	5.0	U	0.010	5.0	R
71-43-2	Benzene	1.0	U	0.010	1.0	
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0	
75-25-2	Bromoform	1.0	U	0.010	1.0	
74-83-9	Bromomethane	1.0	U	0.010	1.0	
75-15-0	Carbon disulfide	0.53	J	0.010	1.0	
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0	
108-90-7	Chlorobenzene	1.0	U	0.010	1.0	
75-00-3	Chloroethane	1.0	U	0.010	1.0	
67-66-3	Chloroform	1.0	U	0.010	1.0	
74-87-3	Chloromethane	1.0	U	0.010	1.0	
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0	
100-41-4	Ethylbenzene	1.0	U	0.010	1.0	

5/13/05

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW601012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170407

Level: (low/med) Lab File ID: 2041220P/T8558

% Moisture: not dec. Date Collected: 12/15/04 Time: 1157

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/20/04 Time: 2008

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285198

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW601012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: Water Lab Sample ID: 20412170407

Sample wt/vol: Units: Lab File ID: 2041220P/T8558

Level: (low/med) Date Collected: 12/15/04 Time: 1157

% Moisture: not dec. Date Received: 12/17/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/20/04 Time: 2006

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

GCAL, Inc.

Data file : /var/chem/msv0.i/2041220p.s.b/t8558.d
Lab Smp Id: 20412170407 Client Smp ID: SKGW601012
Inj Date : 20-DEC-2004 20:06
Operator : KCB Inst ID: msv0.i
Smp Info : 20412170407*SKGW601012
Misc Info : MSV-5617~*1*KCB
Comment :
Method : /var/chem/msv0.i/2041220p.s.b/clp2.1w0.m
Meth Date : 20-Dec-2004 15:48 kcb Quant Type: ISTD
Cal Date : 20-DEC-2004 14:44 Cal File: t8544.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	25.00000	ng unit correction factor
Vo	25.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
7 Carbon Disulfide	76	3.988	3.986	(0.618)	17531	0.52788	0.53(a)
* 19 1,4-Difluorobenzene	114	6.454	6.452	(1.000)	320187	5.00000	
* 32 Chlorobenzene-d5	82	8.596	8.594	(1.000)	172737	5.00000	
$ 39 Bromofluorobenzene	174	9.402	9.400	(1.457)	87223	4.72045	4.7
* 42 1,4-DICHLOROBENZENE-D4	152	10.163	10.161	(1.000)	117669	5.00000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW62A1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170408

Level: (low/med) Lab File ID: 2041220P/T8559

% Moisture: not dec. Date Collected: 12/15/04 Time: 1223

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/20/04 Time: 2028

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285198

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

R

5/13/05 MR

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW62A1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170408

Level: (low/med) Lab File ID: 2041220P/T8559

% Moisture: not dec. Date Collected: 12/15/04 Time: 1223

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/20/04 Time: 2028

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285198

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW62A1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: Water Lab Sample ID: 20412170408

Sample wt/vol: Units: Lab File ID: 2041220P/T8559

Level: (low/med) Date Collected: 12/15/04 Time: 1223

% Moisture: not dec. Date Received: 12/17/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/20/04 Time: 2028

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

GCAL, Inc.

Data file : /var/chem/msv0.i/2041220p.s.b/t8559.d
Lab Smp Id: 20412170408 Client Smp ID: SKGW62A1012
Inj Date : 20-DEC-2004 20:28
Operator : KCB Inst ID: msv0.i
Smp Info : 20412170408*SKGW62A1012
Misc Info : MSV-5617-*1*KCB
Comment :
Method : /var/chem/msv0.i/2041220p.s.b/clp2.1w0.m
Meth Date : 20-Dec-2004 15:48 kcb Quant Type: ISTD
Cal Date : 20-DEC-2004 14:44 Cal File: t8544.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Vo) * CpndVariable

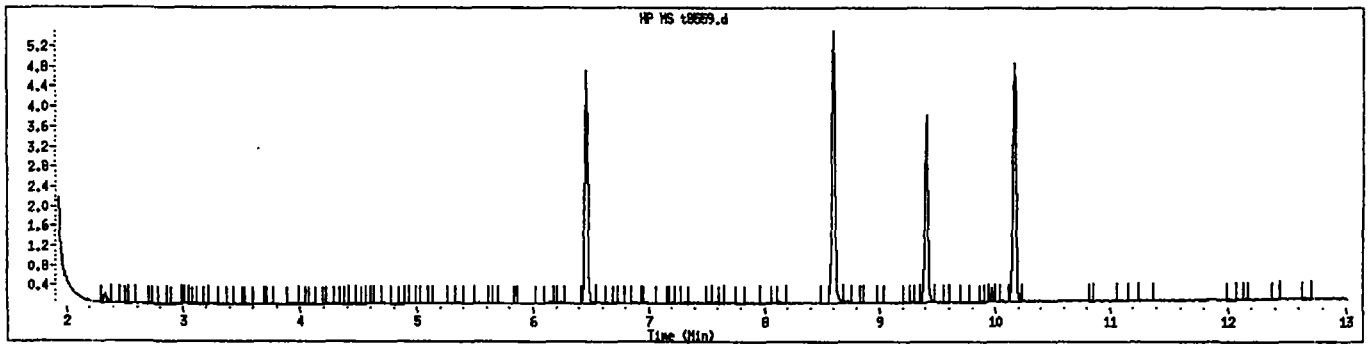
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	25.00000	ng unit correction factor
Vo	25.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
• 19 1,4-Difluorobenzene	114	6.454	6.452	(1.000)	318014	5.00000	
• 32 Chlorobenzene-d5	82	8.596	8.594	(1.000)	170950	5.00000	
$ 39 Bromofluorobenzene	174	9.402	9.400	(1.457)	88307	4.81178	4.8
• 42 1,4-DICHLOROBENZENE-D4	152	10.162	10.161	(1.000)	117753	5.00000	

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20412170408	SampleType	: SAMPLE
Injection Date	: 20-DEC-2004 20:28	Instrument	: msv0.i
Operator	: KCB		
Sample Info	: 20412170408*SKGW62A1012		
Misc Info	: MSV~5617~*1*KCB		
Method	: /var/chem/msv0.i/2041220p.s.b/clp2.1w0.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: all



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW62B1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170409

Level: (low/med) Lab File ID: 2041220P/T8560

% Moisture: not dec. Date Collected: 12/15/04 Time: 1243

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/20/04 Time: 2051

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285198

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	0.47	J	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

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FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW62B1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170409

Level: (low/med) Lab File ID: 2041220P/T8560

% Moisture: not dec. Date Collected: 12/15/04 Time: 1243

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/20/04 Time: 2051

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285198

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW62B1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: Water Lab Sample ID: 20412170409

Sample wt/vol: Units: Lab File ID: 2041220P/T8560

Level: (low/med) Date Collected: 12/15/04 Time: 1243

% Moisture: not dec. Date Received: 12/17/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/20/04 Time: 2051

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

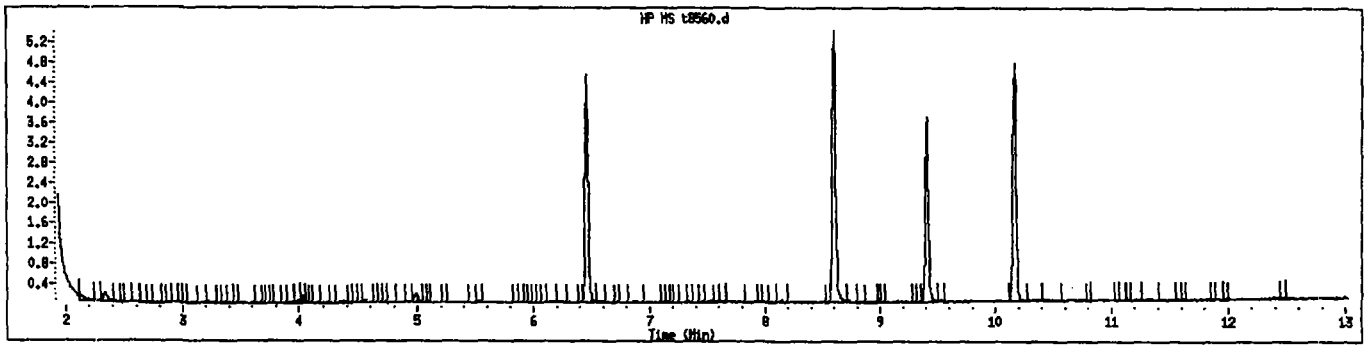
CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

Data file : /var/chem/msv0.i/2041220p.s.b/t8560.d
Report Date: 12/21/2004 06:58

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20412170409	SampleType	: SAMPLE
Injection Date	: 20-DEC-2004 20:51	Instrument	: msv0.i
Operator	: KCB		
Sample Info	: 20412170409*SKGW62B1012		
Misc Info	: MSV~5617~*1*KCB		
Method	: /var/chem/msv0.i/2041220p.s.b/clp2.1w0.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: all



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW641012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170410

Level: (low/med) Lab File ID: 2041220P/T8581

% Moisture: not dec. Date Collected: 12/15/04 Time: 1437

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/20/04 Time: 2114

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285198

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0	
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0	
78-93-3	2-Butanone	5.0	U	0.010	5.0	
591-78-6	2-Hexanone	5.0	U	0.010	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0	
67-64-1	Acetone	5.0	U	0.010	5.0	R
71-43-2	Benzene	1.0	U	0.010	1.0	
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0	
75-25-2	Bromoform	1.0	U	0.010	1.0	
74-83-9	Bromomethane	1.0	U	0.010	1.0	
75-15-0	Carbon disulfide	1.0	U	0.010	1.0	
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0	
108-90-7	Chlorobenzene	1.0	U	0.010	1.0	
75-00-3	Chloroethane	1.0	U	0.010	1.0	
67-66-3	Chloroform	1.0	U	0.010	1.0	
74-87-3	Chloromethane	1.0	U	0.010	1.0	
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0	
100-41-4	Ethylbenzene	1.0	U	0.010	1.0	

5/13/05 nie

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW641012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170410

Level: (low/med) Lab File ID: 2041220P/T8561

% Moisture: not dec. Date Collected: 12/15/04 Time: 1437

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/20/04 Time: 2114

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285198

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW641012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: Water Lab Sample ID: 20412170410

Sample wt/vol: Units: Lab File ID: 2041220P/T8561

Level: (low/med) Date Collected: 12/15/04 Time: 1437

% Moisture: not dec. Date Received: 12/17/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/20/04 Time: 2114

Instrument ID: MSV0 Dilution Factor: 1 Analyst: KCB

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 3

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	593-70-4	Methane, chlorofluoro-	2.37	1.25	
2.	60-29-7	Ether	3.521	3	
3.	108-20-3	Diisopropyl ether	4.962	4.74	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW06R1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170411

Level: (low/med) Lab File ID: 2041220P/T8562

% Moisture: not dec. Date Collected: 12/14/04 Time: 1334

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/20/04 Time: 2140

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285198

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

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5/13/-5 MR

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW08R1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170411

Level: (low/med) Lab File ID: 2041220P/T8562

% Moisture: not dec. Date Collected: 12/14/04 Time: 1334

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/20/04 Time: 2140

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285198

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW06R1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: Water Lab Sample ID: 20412170411

Sample wt/vol: Units: Lab File ID: 2041220P/T8562

Level: (low/med) Date Collected: 12/14/04 Time: 1334

% Moisture: not dec. Date Received: 12/17/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/20/04 Time: 2140

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

GCAL, Inc.

Data file : /var/chem/msv0.i/2041220p.s.b/t8562.d
Lab Smp Id: 20412170411 Client Smp ID: SKGW06R1012
Inj Date : 20-DEC-2004 21:40
Operator : KCB Inst ID: msv0.i
Smp Info : 20412170411*SKGW06R1012
Misc Info : MSV-5617-*1*KCB
Comment :
Method : /var/chem/msv0.i/2041220p.s.b/clp2.1w0.m
Meth Date : 20-Dec-2004 15:48 kcb Quant Type: ISTD
Cal Date : 20-DEC-2004 14:44 Cal File: t8544.d
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Vo) * CpndVariable

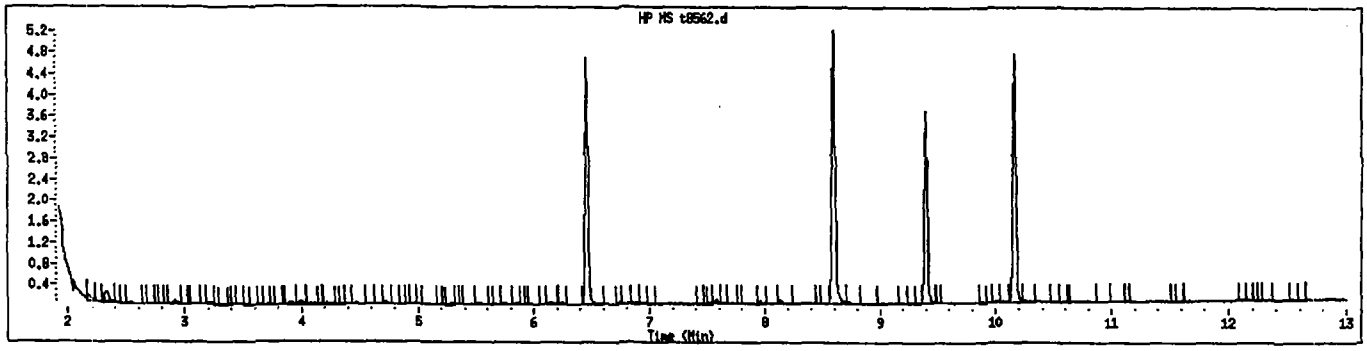
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	25.00000	ng unit correction factor
Vo	25.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 19 1,4-Difluorobenzene	114	6.458	6.452	(1.000)	306775	5.00000	
* 32 Chlorobenzene-d5	82	8.593	8.594	(1.000)	168634	5.00000	
$ 39 Bromofluorobenzene	174	9.406	9.400	(1.457)	84164	4.75404	4.8
* 42 1,4-DICHLOROBENZENE-D4	152	10.166	10.161	(1.000)	116236	5.00000	

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20412170411	SampleType	: SAMPLE
Injection Date	: 20-DEC-2004 21:40	Instrument	: msv0.i
Operator	: KCB		
Sample Info	: 20412170411*SKGW06R1012		
Misc Info	: MSV~5617~*1*KCB		
Method	: /var/chem/msv0.i/2041220p.s.b/clp2.1w0.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist:	all



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW07R1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170412

Level: (low/med) Lab File ID: 2041220P/T8583

% Moisture: not dec. Date Collected: 12/14/04 Time: 1433

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/20/04 Time: 2203

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285198

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

R

5/3/05 AR

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW07R1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170412

Level: (low/med) Lab File ID: 2041220P/T8563

% Moisture: not dec. Date Collected: 12/14/04 Time: 1433

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/20/04 Time: 2203

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285198

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW07R1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: Water Lab Sample ID: 20412170412

Sample wt/vol: Units: Lab File ID: 2041220P/T8563

Level: (low/med) Date Collected: 12/14/04 Time: 1433

% Moisture: not dec. Date Received: 12/17/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/20/04 Time: 2203

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGWEB1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170413

Level: (low/med) Lab File ID: 2041220P/T8564

% Moisture: not dec. Date Collected: 12/15/04 Time: 1540

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/20/04 Time: 2225

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285198

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	0.086	J	0.010	1.0

R

5/13/06 MSL

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGWEB1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170413

Level (low/med) Lab File ID: 2041220P/T8564

% Moisture: not dec. Date Collected: 12/15/04 Time: 1540

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/20/04 Time: 2225

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285198

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	0.50	J	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	0.55	J	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	0.46	J	0.010	1.0

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGWEB1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: Water Lab Sample ID: 20412170413

Sample wt/vol: Units: Lab File ID: 2041220P/T8564

Level: (low/med) Date Collected: 12/15/04 Time: 1540

% Moisture: not dec. Date Received: 12/17/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/20/04 Time: 2225

Instrument ID: MSV0 Dilution Factor: 1 Analyst: KCB

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		Unknown	3.51	5.54	

GCAL, Inc.

Data file : /var/chem/msv0.i/2041220p.s.b/t8564.d
Lab Smp Id: 20412170413 Client Smp ID: SKGWEB1012
Inj Date : 20-DEC-2004 22:25
Operator : KCB Inst ID: msv0.i
Smp Info : 20412170413*SKGWEB1012
Misc Info : MSV~5617~*1*KCB
Comment :
Method : /var/chem/msv0.i/2041220p.s.b/clp2.1w0.m
Meth Date : 20-Dec-2004 15:48 kcb Quant Type: ISTD
Cal Date : 20-DEC-2004 14:44 Cal File: t8544.d
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	25.00000	ng unit correction factor
Vo	25.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
8 Methylene Chloride	49	4.336	4.330	(0.671)	8850	0.49863	0.50(a)
* 19 1,4-Difluorobenzene	114	6.458	6.452	(1.000)	307260	5.00000	
25 Toluene +	91	7.575	7.576	(0.881)	52196	0.55128	0.55(a)
* 32 Chlorobenzene-d5	82	8.608	8.594	(1.000)	167130	5.00000	
35 p,m-Xylene	106	8.725	8.726	(1.015)	14677	0.33887	0.34(a)
36 o-Xylene	106	9.016	9.010	(1.048)	4824	0.11669	0.12(a)
$ 39 Bromofluorobenzene	174	9.399	9.400	(1.456)	82779	4.66843	4.7
* 42 1,4-DICHLOROBENZENE-D4	152	10.166	10.161	(1.000)	115189	5.00000	
M 44 TOTAL XYLENE	106				19501	0.45719	0.46(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGWFB1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170414

Level: (low/med) Lab File ID: 2041220P/T8565

% Moisture: not dec. Date Collected: 12/15/04 Time: 1555

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/20/04 Time: 2248

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285198

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	0.11	J	0.010	1.0

R

5/13/05 MM

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGWFB1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170414

Level: (low/med) Lab File ID: 2041220P/T8585

% Moisture: not dec. Date Collected: 12/15/04 Time: 1555

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/20/04 Time: 2248

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285198

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	0.42	J	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	0.67	J	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	0.57	J	0.010	1.0

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SKGWFB1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: Water Lab Sample ID: 20412170414

Sample wt/vol: Units: Lab File ID: 2041220P/T8565

Level: (low/med) Date Collected: 12/15/04 Time: 1555

% Moisture: not dec. Date Received: 12/17/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/20/04 Time: 2248

Instrument ID: MSV0 Dilution Factor: 1 Analyst: KCB

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 2

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		Unknown	3.511	5.73	
2.		Unknown	9.883	.155	

GCAL, Inc.

Data file : /var/chem/msv0.i/2041220p.s.b/t8565.d
Lab Smp Id: 20412170414 Client Smp ID: SKGWFB1012
Inj Date : 20-DEC-2004 22:48
Operator : KCB Inst ID: msv0.i
Smp Info : 20412170414*SKGWFB1012
Misc Info : MSV-5617-*1*KCB
Comment :
Method : /var/chem/msv0.i/2041220p.s.b/clp2.1w0.m
Meth Date : 20-Dec-2004 15:48 kcb Quant Type: ISTD
Cal Date : 20-DEC-2004 14:44 Cal File: t8544.d
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	25.00000	ng unit correction factor
Vo	25.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT STG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
8 Methylene Chloride	49	4.337	4.330	(0.671)	7368	0.42070	0.42(a)
• 19 1,4-Difluorobenzene	114	6.459	6.452	(1.000)	303195	5.00000	
25 Toluene +	91	7.576	7.576	(0.881)	62011	0.67021	0.67(a)
• 32 Chlorobenzene-d5	82	8.601	8.594	(1.000)	163323	5.00000	
34 Ethylbenzene +	106	8.647	8.647	(1.005)	3541	0.10796	0.11(a)
35 p,m-Xylene	106	8.726	8.726	(1.015)	17973	0.42465	0.42(a)
36 o-Xylene	106	9.017	9.010	(1.048)	5780	0.14308	0.14(a)
$ 39 Bromofluorobenzene	174	9.407	9.400	(1.456)	80772	4.61631	4.6
• 42 1,4-DICHLOROBENZENE-D4	152	10.167	10.161	(1.000)	114159	5.00000	
M 44 TOTAL XYLENE	106				23753	0.56986	0.57(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/msv0.i/2041220p.s.b/t8565.d

Date : 20-DEC-2004 22:48

Client ID: SKGWFB1012

Instrument: msv0.i

Sample Info: 20412170414MSKGWFB1012

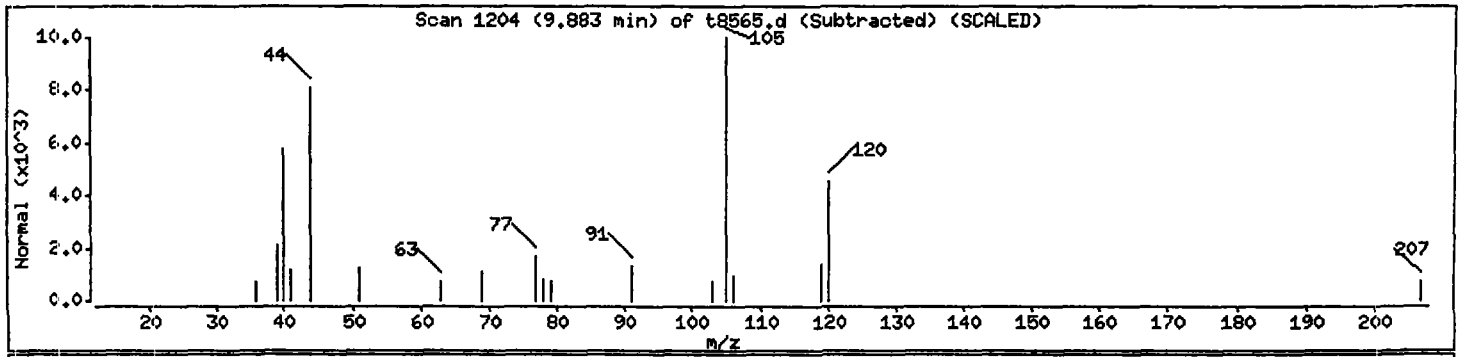
Purge Volume: 25.0

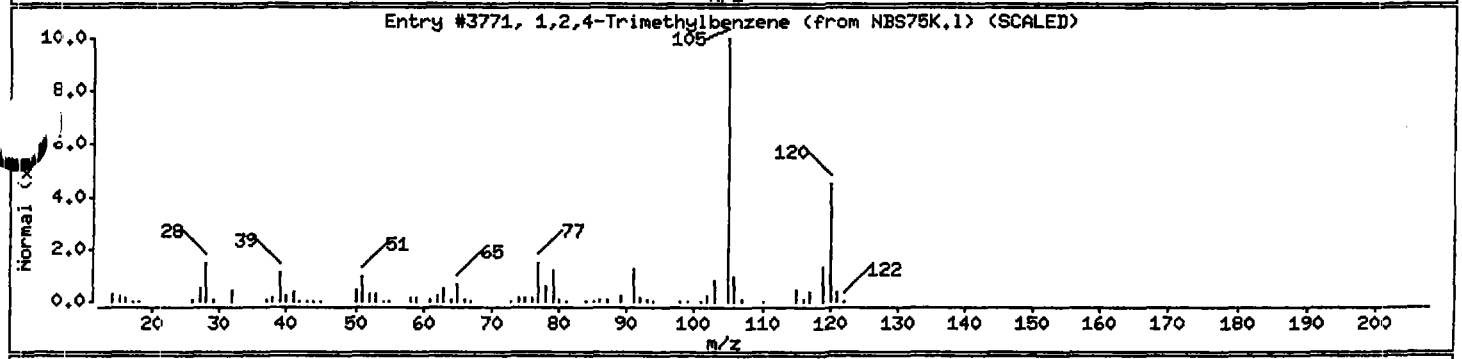
Operator: KCB

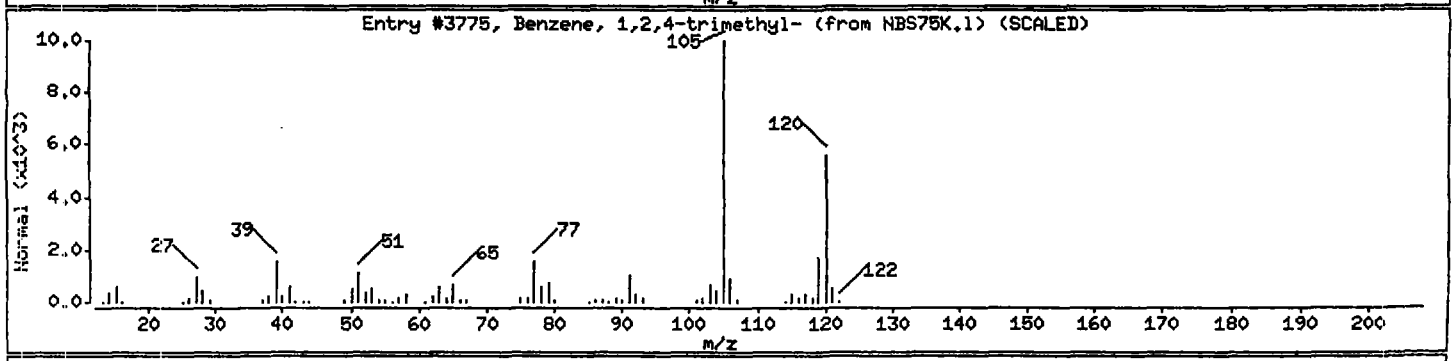
Column phase: DB-624-30M

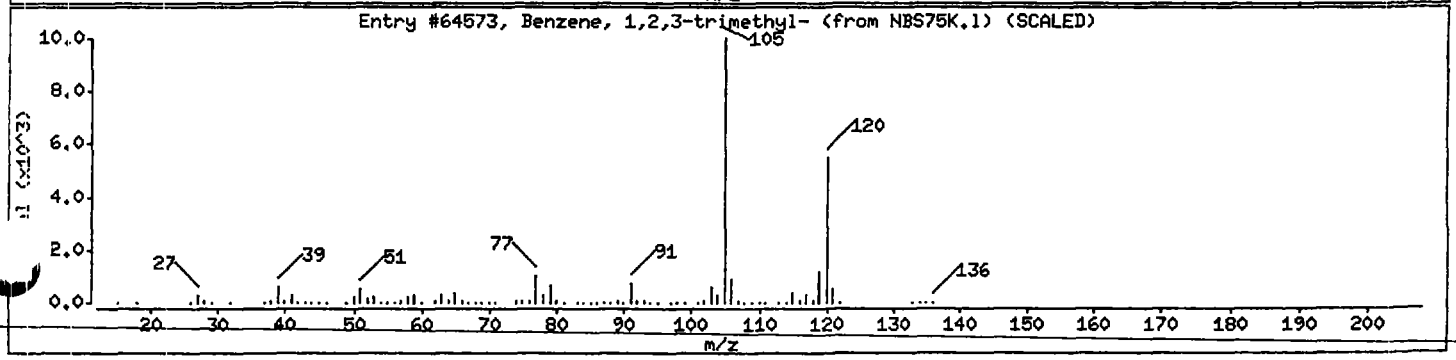
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,2,4-Trimethylbenzene	95-36-3	NBS75K.l	3771	45	C9H12	120
Benzene, 1,2,4-trimethyl-	95-63-6	NBS75K.l	3775	43	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.l	64573	43	C9H12	120









1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW651012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170415

Level: (low/med) Lab File ID: 2041221/T8572

% Moisture: not dec. Date Collected: 12/15/04 Time: 1458

GC Column: DB-624-30M ID .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/21/04 Time: 0915

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285225

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0 R
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

5/13/05 mc

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW651012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170415

Level: (low/med) Lab File ID: 2041221/T8572

% Moisture: not dec. Date Collected: 12/15/04 Time: 1458

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/21/04 Time: 0915

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285225

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SKGW651012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: Water Lab Sample ID: 20412170415

Sample wt/vol: Units: Lab File ID: 2041221/T8572

Level: (low/med) Date Collected: 12/15/04 Time: 1458

% Moisture: not dec. Date Received: 12/17/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/21/04 Time: 0915

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: *0*

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKTB1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170416

Level: (low/med) Lab File ID: 2041221/T8573

% Moisture: not dec. Date Collected: 12/14/04 Time: 0000

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/21/04 Time: 0938

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285225

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0 R
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

FORM I VOA

6/27/05 mSL

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKTB1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412170416

Level: (low/med) Lab File ID: 2041221/T8573

% Moisture: not dec. Date Collected: 12/14/04 Time: 0000

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/17/04

Instrument ID: MSV0 Date Analyzed: 12/21/04 Time: 0938

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285225

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKTB1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204121704

Matrix: Water Lab Sample ID: 20412170416

Sample wt/vol: Units: Lab File ID: 2041221/T8573

Level: (low/med) Date Collected: 12/14/04 Time: 0000

% Moisture: not dec. Date Received: 12/17/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/21/04 Time: 0938

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

GCAL, Inc.

Data file : /var/chem/msv0.i/2041221.s.b/t8573.d
Lab Smp Id: 20412170416 Client Smp ID: SKTB1012
Inj Date : 21-DEC-2004 09:38
Operator : KCB Inst ID: msv0.i
Smp Info : 20412170416*SKTB1012
Misc Info : MSV-5619~*1*KCB
Comment :
Method : /var/chem/msv0.i/2041221.s.b/clp2.1w0.m
Meth Date : 21-Dec-2004 07:31 kcb Quant Type: ISTD
Cal Date : 21-DEC-2004 07:18 Cal File: t8567.d
Als bottle: 45
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	25.00000	ng unit correction factor
Vo	25.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 19 1,4-Difluorobenzene	114	6.458	6.459	(1.000)	302958	5.00000	
* 32 Chlorobenzene-d5	82	8.594	8.594	(1.000)	161777	5.00000	
$ 39 Bromofluorobenzene	174	9.407	9.401	(1.456)	84150	5.66805	5.7
* 42 1,4-DICHLOROBENZENE-D4	152	10.160	10.167	(1.000)	115447	5.00000	

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: 204121704 SAS No.: SDG No.: 204121704

EPA Sample No. (SSTD050##): SSTD050 Date Analyzed: 12/23/04

Lab File ID (Standard): B5131 Time Analyzed: 0913

Instrument ID: MSSV3 GC Column: DB-5MS-30M ID:0.25(mm)

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	121867	4.62	161762	6.38	146607	7.50
	UPPER LIMIT	243734	5.12	323524	6.88	293214	8.00
	LOWER LIMIT	60934	4.12	80881	5.88	73304	7.00
	EPA SAMPLE NO.						
01	SKGWFB1012	129510	4.61	128863	6.38	111738	7.49
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204121704
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW631012
Contract:
Lab File ID: 2041222/B5112
Lab Sample ID: 20412170401
Date Collected: 12/16/04 Time: 0925
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 12/22/04 Time: 1402
Dilution Factor: 1 Analyst: JAR3
Prep Method: OLM4.2 SVOA
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 285070 Analytical Batch: 285398

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0

UJ

R

CORRECTED
000230

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW631012

Contract:

Lab File ID: 2041222/B5112

Lab Sample ID: 20412170401

Date Collected: 12/16/04 Time: 0925

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1402

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
117-81-7	bis(2-ethylhexyl)phthalate	10.0	U	0.010	10.0	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0 ~~0.634~~	JB	0.010	10.0	u
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	UJ
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	

6/27/05 AR

CORRECTED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW631012

Contract:

Lab File ID: 2041222/B5112

Lab Sample ID: 20412170401

Date Collected: 12/16/04 Time: 0925

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1402

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

CORRECTED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204121704
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW631012
Contract:
Lab File ID: 2041222/B5112
Lab Sample ID: 20412170401
Date Collected: 12/16/04 Time: 0925
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 12/22/04 Time: 1402
Dilution Factor: 1 Analyst: JAR3
Prep Method: OLM 04.2
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 2

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	105-60-2	Caprolactam	2.916	9.11	
2.	115-28-6	Bicyclo[2.2.1]hept-5-ene-2,3-d	5.133	8.11	

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2041222.s.b/b5112.d
Lab Smp Id: 20412170401 Client Smp ID: SKGW631012
Inj Date : 22-DEC-2004 14:02
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 20412170401*4342*
Misc Info : 20412170401*MSSV~2453~*121704*1000-1.0
Comment :
Method : /var/chem/MSSV3.i/2041222.s.b/CLP4.2_02.m.m
Meth Date : 05-Jan-2005 15:55 rlw Quant Type: ISTD
Cal Date : 22-DEC-2004 08:22 Cal File: b5101.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	CONCENTRATIONS FINAL (ug/L)
$ 1 2-Fluorophenol	112	0.955	0.945	(0.512)	258497	138.032	69.0
$ 3 Phenol-d5	99	1.667	1.663	(0.895)	374608	116.405	58.2
$ 6 2-Chlorophenol-d4	132	1.724	1.723	(0.925)	168088	121.757	60.9
* 8 1,4-Dichlorobenzene-d4	115	1.863	1.859	(1.000)	39282	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	1.959	1.955	(1.052)	70567	64.7557	32.4
$ 16 Nitrobenzene-d5	82	2.221	2.217	(1.638)	295082	87.6219	43.8
* 23 Naphthalene-d8	136	2.649	2.646	(1.000)	141689	40.0000	
$ 33 2-Fluorobiphenyl	172	3.313	3.309	(1.891)	223351	92.9554	46.5
* 41 Acenaphthene-d10	164	3.714	3.712	(1.000)	69669	40.0000	
$ 53 2,4,6-Tribromophenol	332	4.199	4.200	(1.131)	46514	147.115	73.6
* 58 Phenanthrene-d10	188	4.616	4.618	(1.000)	99375	40.0000	
62 Di-n-butylphthalate	149	4.994	4.998	(1.082)	2560	1.30858	0.654(a)
$ 65 Terphenyl-d14	244	5.629	5.631	(1.681)	154188	66.5391	33.3

Data File: /var/chem/MSSV3.i/2041222.s.b/b5112.d

Date : 22-DEC-2004 14:02

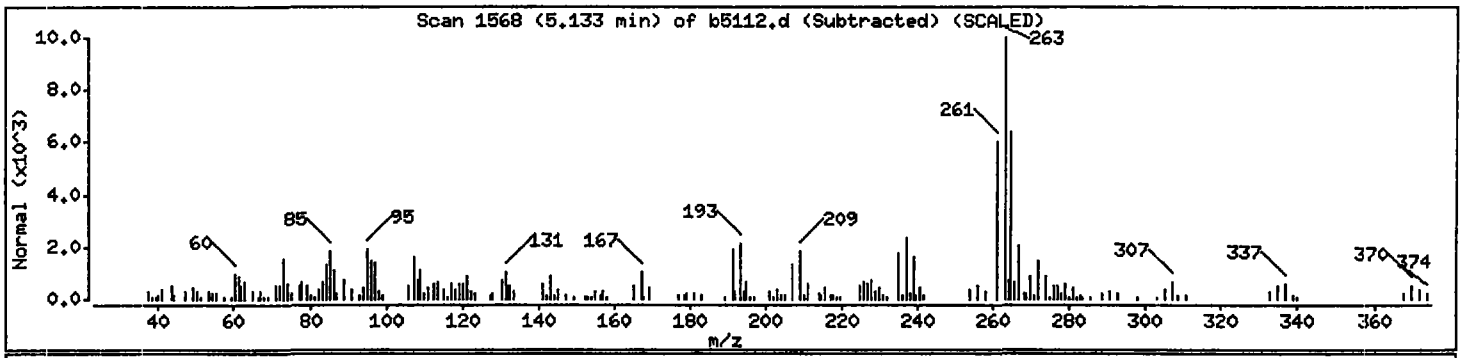
Client ID: 20412170401 Instrument: MSSV3.i

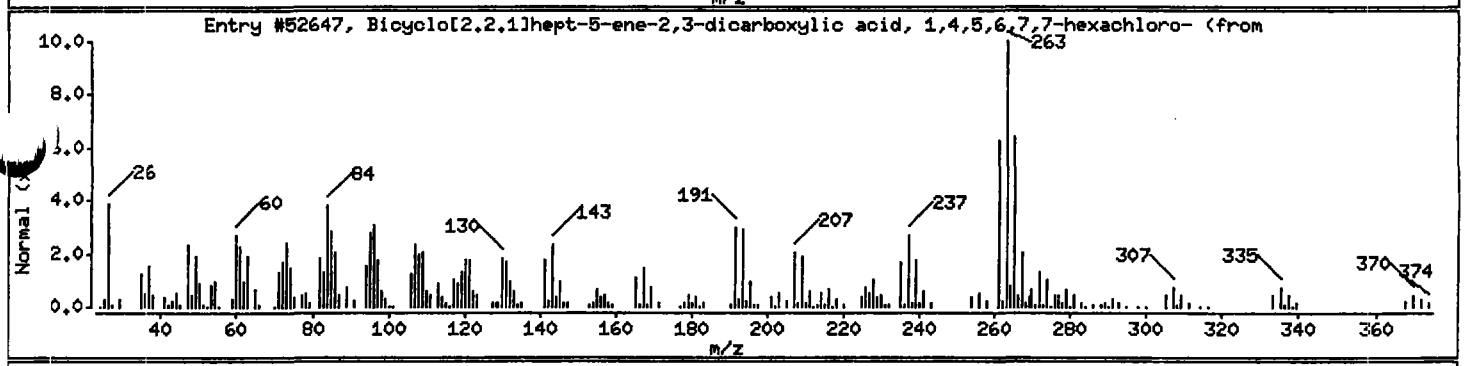
Sample Info: 20412170401M4342M

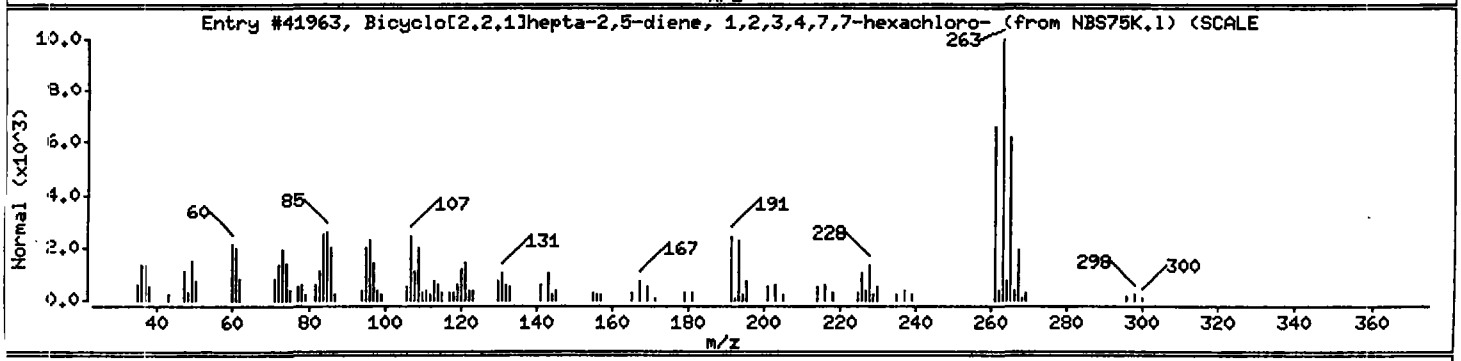
Volume Injected (uL): 2.0 Operator: jar3

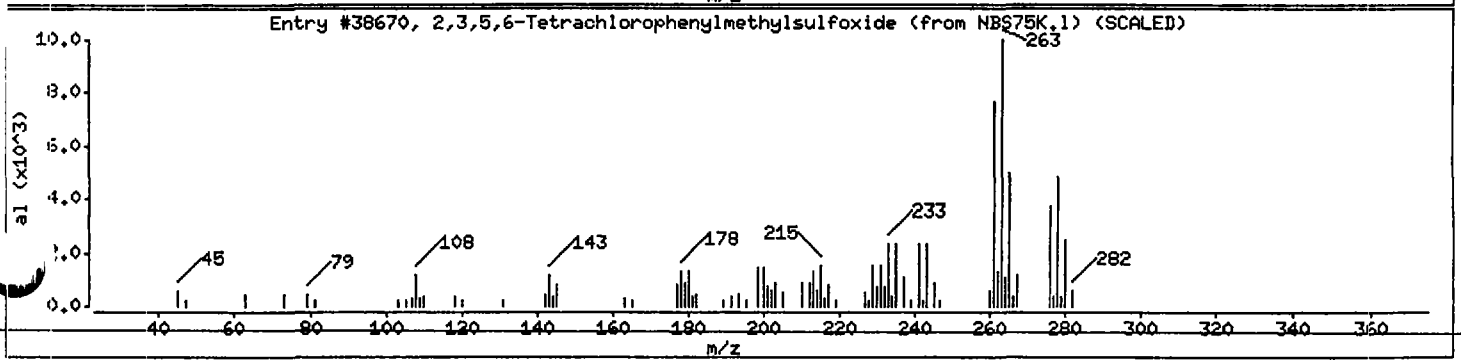
Column phase: DB-5MS-30M Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Bicyclo[2.2.1]hept-5-ene-2,3-dicarboxyli	115-28-6	NBS75K.l	52647	90	C9H4Cl6O4	386
Bicyclo[2.2.1]hepta-2,5-diene, 1,2,3,4,7	3389-71-7	NBS75K.l	41963	38	C7H2Cl6	296
2,3,5,6-Tetrachlorophenylmethylsulfoxide	107409-52-9	NBS75K.l	38670	37	C7H4Cl4OS	276









1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204121704
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW611012
Contract:
Lab File ID: 2041222/B5113
Lab Sample ID: 20412170402
Date Collected: 12/16/04 Time: 0955
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 12/22/04 Time: 1441
Dilution Factor: 1 Analyst: JAR3
Prep Method: OLM4.2 SVOA
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0	
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0	
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0	
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0	UJ
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0	
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0	
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0	
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0	
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0	
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0	
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0	
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0	
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0	
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0	
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0	
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0	R
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0	
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0	
83-32-9	Acenaphthene	10.0	U	0.010	10.0	
208-96-8	Acenaphthylene	10.0	U	0.010	10.0	
120-12-7	Anthracene	10.0	U	0.010	10.0	
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0	
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0	
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0	
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0	
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0	
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0	
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0	
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0	

6/27/05

CORRECTED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW611012

Contract:

Lab File ID: 2041222/B5113

Lab Sample ID: 20412170402

Date Collected: 12/16/04 Time: 0955

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1441

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
117-81-7	bis(2-ethylhexyl)phthalate	10.0 ~~1.20~~	J B	0.010	10.0	u
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0 ~~1.01~~	J B	0.010	10.0	u
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	u3
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	

6/27/05 MC

CORRECTED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW611012

Contract:

Lab File ID: 2041222/B5113

Lab Sample ID: 20412170402

Date Collected: 12/16/04 Time: 0955

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1441

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

CORRECTED

000244

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204121704
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW611012
Contract:
Lab File ID: 2041222/B5113
Lab Sample ID: 20412170402
Date Collected: 12/16/04 Time: 0955
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 12/22/04 Time: 1441
Dilution Factor: 1 Analyst: JAR3
Prep Method: OLM 04.2
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 2

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	105-60-2	Caprolactam	2.913	4.33	
2.	115-28-6	Bicyclo[2.2.1]hept-5-ene-2,3-d	5.136	126	

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2041222.s.b/b5113.d
Lab Smp Id: 20412170402 Client Smp ID: SKGW611012
Inj Date : 22-DEC-2004 14:41
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 20412170402*4342*
Misc Info : 20412170402*MSSV~2453~*121704*1000-1.0
Comment :
Method : /var/chem/MSSV3.i/2041222.s.b/CLP4.2_02.m.m
Meth Date : 05-Jan-2005 15:55 rlw Quant Type: ISTD
Cal Date : 22-DEC-2004 08:22 Cal File: b5101.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	CONCENTRATIONS FINAL (ug/L)
$ 1 2-Fluorophenol	112	0.949	0.945	(0.509)	192598	134.686	67.3
$ 3 Phenol-d5	99	1.667	1.663	(0.895)	281343	114.492	57.2
$ 6 2-Chlorophenol-d4	132	1.724	1.723	(0.925)	126649	120.145	60.1
* 8 1,4-Dichlorobenzene-d4	115	1.860	1.859	(1.000)	29995	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	1.960	1.955	(1.052)	52804	63.4583	31.7
$ 16 Nitrobenzene-d5	82	2.221	2.217	(0.839)	222228	86.6948	43.3
* 23 Naphthalene-d8	136	2.646	2.648	(1.000)	107848	40.0000	
$ 33 2-Fluorobiphenyl	172	3.311	3.309	(0.891)	160219	88.1716	44.1
* 41 Acenaphthene-d10	164	3.714	3.712	(1.000)	52688	40.0000	
$ 53 2,4,6-Tribromophenol	332	4.199	4.200	(1.131)	35155	147.024	73.5
* 58 Phenanthrene-d10	188	4.616	4.618	(1.000)	78451	40.0000	
62 Di-n-butylphthalate	149	4.999	4.998	(1.083)	3129	2.02602	1.01(a)
$ 65 Terphenyl-d14	244	5.629	5.631	(0.881)	147431	66.0523	33.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204121704
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW591012
Contract:
Lab File ID: 2041222/B5116
Lab Sample ID: 20412170406
Date Collected: 12/15/04 Time: 1138
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 12/22/04 Time: 1600
Dilution Factor: 1 Analyst: JAR3
Prep Method: OLM4.2 SVOA
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 285070 Analytical Batch: 285398

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0	
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0	
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0	
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0	UJ
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0	
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0	
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0	
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0	
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0	
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0	
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0	
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0	
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0	
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0	
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0	
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0	R
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0	
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0	
83-32-9	Acenaphthene	10.0	U	0.010	10.0	
208-96-8	Acenaphthylene	10.0	U	0.010	10.0	
120-12-7	Anthracene	10.0	U	0.010	10.0	
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0	
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0	
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0	
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0	
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0	
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0	
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0	
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0	

6/20/05 MS

CORRECTED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204121704
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW591012
Contract:
Lab File ID: 2041222/B5116
Lab Sample ID: 20412170406
Date Collected: 12/15/04 Time: 1138
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 12/22/04 Time: 1600
Dilution Factor: 1 Analyst: JAR3
Prep Method: OLM4.2 SVOA
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
117-81-7	bis(2-ethylhexyl)phthalate	10.0 ~~1.20~~	J B	0.010	10.0	u
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0 ~~1.55~~	J B	0.010	10.0	u
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	uJ
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	

6/27/05 mL

CORRECTED
000256

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW591012

Contract:

Lab File ID: 2041222/B5116

Lab Sample ID: 20412170406

Date Collected: 12/15/04 Time: 1138

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1600

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

CORRECTED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204121704
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW591012
Contract:
Lab File ID: 2041222/B5116
Lab Sample ID: 20412170406
Date Collected: 12/15/04 Time: 1138
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 12/22/04 Time: 1600
Dilution Factor: 1 Analyst: JAR3
Prep Method: OLM 4.2
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found: 3

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	105-60-2	Caprolactam	3.089	2500	
2.	115-28-6	Bicyclo[2.2.1]hept-5-ene-2,3-d	5.133	59.9	
3.		Unknown	5.8	365	

5/23/05
[illegible]

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204121704
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW601012
Contract:
Lab File ID: 2041222/B5117
Lab Sample ID: 20412170407
Date Collected: 12/15/04 Time: 1157
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 12/22/04 Time: 1620
Dilution Factor: 1 Analyst: JAR3
Prep Method: OLM4.2 SVOA
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0	UJ
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0	UJ
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0	UJ
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0	UJ
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0	
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0	
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0	
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0	UJ
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0	
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0	
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0	UJ
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0	
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0	
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0	UJ
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0	UJ
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0	R
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0	
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0	UJ
83-32-9	Acenaphthene	10.0	U	0.010	10.0	
208-96-8	Acenaphthylene	10.0	U	0.010	10.0	
120-12-7	Anthracene	10.0	U	0.010	10.0	
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0	
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0	
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0	
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0	
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0	
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0	
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0	
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0	

6/27/05 MGL

CORRECTED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW601012

Contract:

Lab File ID: 2041222/B5117

Lab Sample ID: 20412170407

Date Collected: 12/15/04 Time: 1157

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1620

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
117-81-7	bis(2-ethylhexyl)phthalate	10.0 ~~1.87~~	J B	0.010	10.0	u
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0 ~~1.60~~	J B	0.010	10.0	u
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	UJ
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	UJ
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	UJ
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	UJ
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	

6/27/05 MSL

CORRECTED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW601012

Contract:

Lab File ID: 2041222/B5117

Lab Sample ID: 20412170407

Date Collected: 12/15/04 Time: 1157

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1620

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
86-30-6	N-Nitrosodiphenylamine	0.954	J	0.010	10.0	
95-48-7	o-Cresol	10.0	U	0.010	10.0	UJ

ch765
mr

CORRECTED
000271

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204121704
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW601012
Contract:
Lab File ID: 2041222/B5117
Lab Sample ID: 20412170407
Date Collected: 12/15/04 Time: 1157
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 12/22/04 Time: 1620
Dilution Factor: 1 Analyst: JAR3
Prep Method: OLM 3.4.2
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 4

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	105-60-2	Caprolactam	3.112	2260	
2.	95-14-7	1H-Benzotriazole	3.654	18.4	
3.	115-28-6	Bicyclo[2.2.1]hept-5-ene-2,3-d	5.133	34.7	
4.		Unknown	5.802	342	

5/23/05
MSR

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW62A1012

Contract:

Lab File ID: 2041222/B5118

Lab Sample ID: 20412170408

Date Collected: 12/15/04 Time: 1223

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1640

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0	UJ
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0	UJ
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0	UJ
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0	UJ
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0	
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0	
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0	
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0	UJ
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0	
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0	
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0	UJ
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0	
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0	
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0	UJ
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0	UJ
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0	R
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0	
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0	UJ
83-32-9	Acenaphthene	10.0	U	0.010	10.0	
208-96-8	Acenaphthylene	10.0	U	0.010	10.0	
120-12-7	Anthracene	10.0	U	0.010	10.0	
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0	
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0	
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0	
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0	
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0	
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0	
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0	
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0	

6/27/05

CORRECTED

000285

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204121704
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW62A1012
Contract:
Lab File ID: 2041222/B5118
Lab Sample ID: 20412170408
Date Collected: 12/15/04 Time: 1223
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 12/22/04 Time: 1640
Dilution Factor: 1 Analyst: JAR3
Prep Method: OLM4.2 SVOA
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
117-81-7	bis(2-ethylhexyl)phthalate	10.0 ~~1.66~~	J B	0.010	10.0	U
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0 ~~1.01~~	J B	0.010	10.0	U
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	UJ
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	UJ
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	UJ
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	UJ
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	

6/27/05

CORRECTED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW62A1012

Contract:

Lab File ID: 2041222/B5118

Lab Sample ID: 20412170408

Date Collected: 12/15/04 Time: 1223

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1640

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

MS

6/27/05
MC

CORRECTED
000287

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204121704
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW62A1012
Contract:
Lab File ID: 2041222/B5118
Lab Sample ID: 20412170408
Date Collected: 12/15/04 Time: 1223
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 12/22/04 Time: 1640
Dilution Factor: 1 Analyst: JAR3
Prep Method: OLM 04.2
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found: 2

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	105-60-2	Caprolactam	3.157	4910	
2.		Unknown	5.853	599	

5/23/05
MSM

Data File: /var/chem/MSSV3.i/2041222.s.b/b5118.d

Date : 22-DEC-2004 16:40

Client ID: 20412170408

Instrument: MSSV3.i

Sample Info: 20412170408*4342*

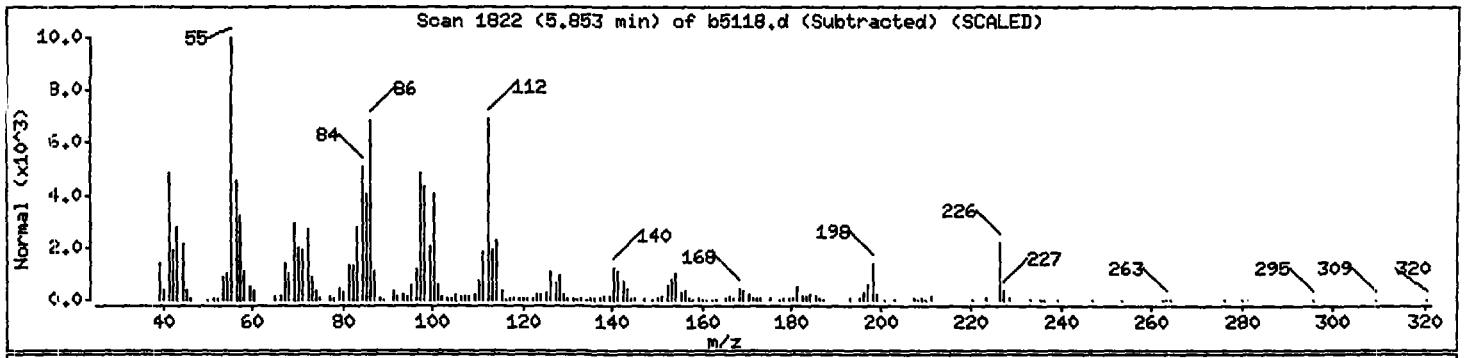
Volume Injected (uL): 2.0

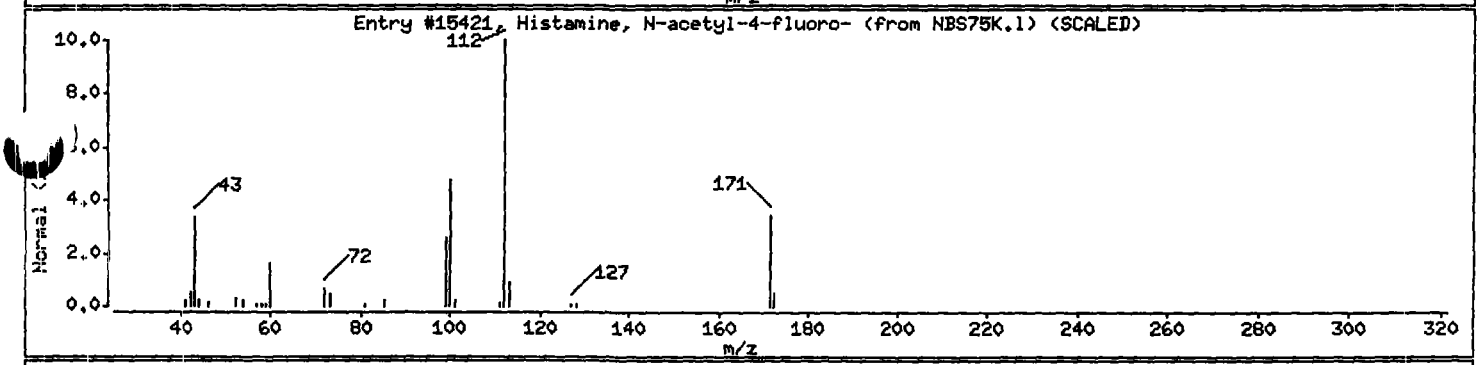
Operator: jar3

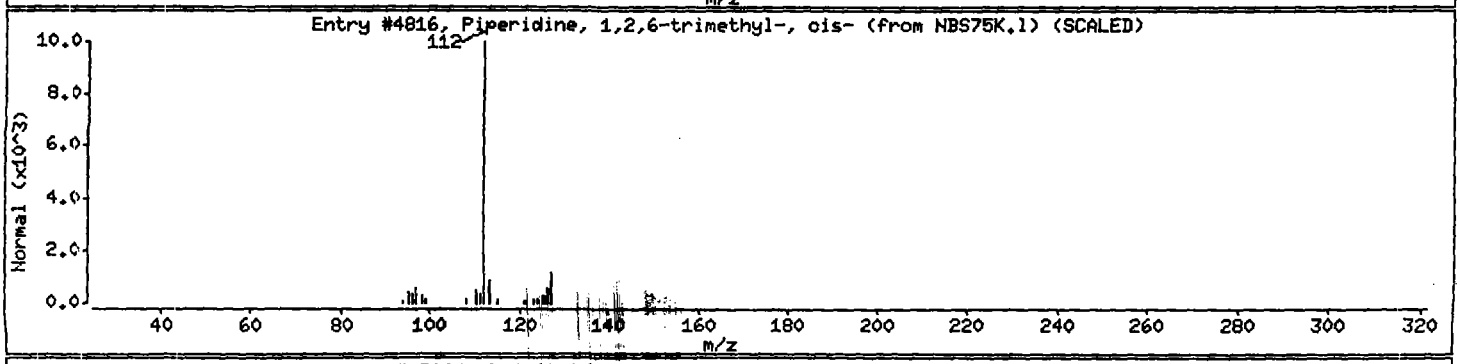
Column phase: DB-5MS-30M

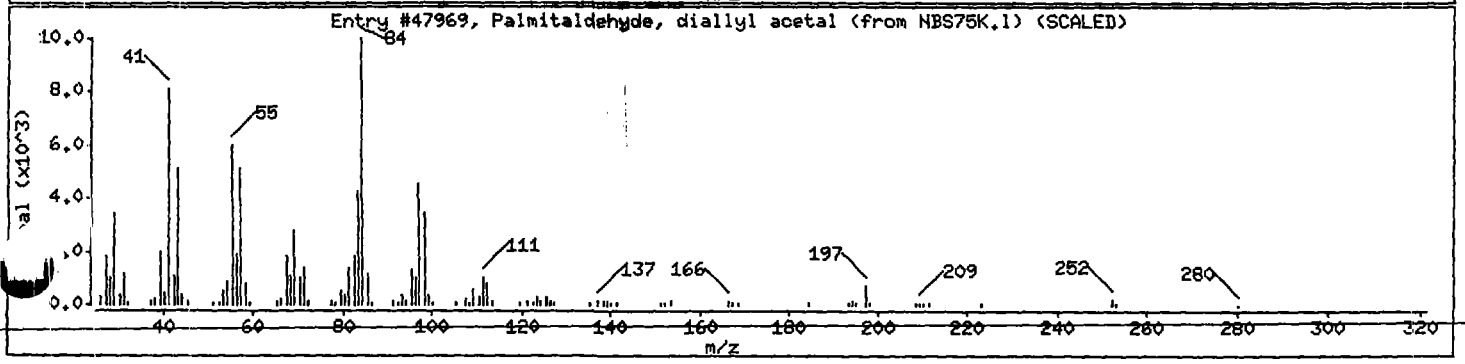
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Histamine, N-acetyl-4-fluoro-	0-00-0	NBS75K.l	15421	22	C7H10FN3O	171
Piperidine, 1,2,6-trimethyl-, cis-	2439-13-6	NBS75K.l	4816	14	C8H17N	127
Palmitaldehyde, diallyl acetal	18302-67-5	NBS75K.l	47969	11	C22H42O2	338









1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204121704
Matrix: Water
Sample wt/vol: 850 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW62B1012
Contract:
Lab File ID: 2041222/B5119
Lab Sample ID: 20412170409
Date Collected: 12/15/04 Time: 1243
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 12/22/04 Time: 1659
Dilution Factor: 1 Analyst: JAR3
Prep Method: OLM4.2 SVOA
Analytical Method: OLMO 4.2
Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
95-95-4	2,4,5-Trichlorophenol	11.8	U	0.012	11.8	
88-06-2	2,4,6-Trichlorophenol	11.8	U	0.012	11.8	
120-83-2	2,4-Dichlorophenol	11.8	U	0.012	11.8	
51-28-5	2,4-Dinitrophenol	29.4	U	0.012	29.4	UJ
121-14-2	2,4-Dinitrotoluene	11.8	U	0.012	11.8	
606-20-2	2,6-Dinitrotoluene	11.8	U	0.012	11.8	
91-58-7	2-Chloronaphthalene	11.8	U	0.012	11.8	
95-57-8	2-Chlorophenol	11.8	U	0.012	11.8	
91-57-6	2-Methylnaphthalene	11.8	U	0.012	11.8	
88-74-4	2-Nitroaniline	29.4	U	0.012	29.4	
88-75-5	2-Nitrophenol	11.8	U	0.012	11.8	
91-94-1	3,3'-Dichlorobenzidine	11.8	U	0.012	11.8	
99-09-2	3-Nitroaniline	29.4	U	0.012	29.4	
534-52-1	2-Methyl-4,6-dinitrophenol	29.4	U	0.012	29.4	
59-50-7	4-Chloro-3-methylphenol	11.8	U	0.012	11.8	
106-47-8	4-Chloroaniline	11.8	U	0.012	11.8	R
7005-72-3	4-Chlorophenyl-phenylether	11.8	U	0.012	11.8	
106-44-5	4-Methylphenol (p-Cresol)	11.8	U	0.012	11.8	
83-32-9	Acenaphthene	11.8	U	0.012	11.8	
208-96-8	Acenaphthylene	11.8	U	0.012	11.8	
120-12-7	Anthracene	11.8	U	0.012	11.8	
56-55-3	Benzo(a)anthracene	11.8	U	0.012	11.8	
50-32-8	Benzo(a)pyrene	11.8	U	0.012	11.8	
205-99-2	Benzo(b)fluoranthene	11.8	U	0.012	11.8	
191-24-2	Benzo(g,h,i)perylene	11.8	U	0.012	11.8	
207-08-9	Benzo(k)fluoranthene	11.8	U	0.012	11.8	
111-91-1	Bis(2-Chloroethoxy)methane	11.8	U	0.012	11.8	
111-44-4	Bis(2-Chloroethyl ether	11.8	U	0.012	11.8	
108-60-1	bis(2-Chloroisopropyl)ether	11.8	U	0.012	11.8	

6/27/05 MR

CORRECTED
000298

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 850 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW62B1012

Contract:

Lab File ID: 2041222/B5119

Lab Sample ID: 20412170409

Date Collected: 12/15/04 Time: 1243

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1659

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
117-81-7	bis(2-ethylhexyl)phthalate	11.8	U	0.012	11.8	
101-55-3	4-Bromophenyl-phenylether	11.8	U	0.012	11.8	
85-68-7	Butylbenzylphthalate	11.8	U	0.012	11.8	
86-74-8	Carbazole	11.8	U	0.012	11.8	
218-01-9	Chrysene	11.8	U	0.012	11.8	
84-74-2	Di-n-butylphthalate	11.8 ~~0.639~~	J B	0.012	11.8	u
117-84-0	Di-n-octylphthalate	11.8	U	0.012	11.8	
53-70-3	Dibenz(a,h)anthracene	11.8	U	0.012	11.8	
132-64-9	Dibenzofuran	11.8	U	0.012	11.8	
84-66-2	Diethylphthalate	11.8	U	0.012	11.8	
131-11-3	Dimethyl-phthalate	11.8	U	0.012	11.8	
105-67-9	2,4-Dimethylphenol	11.8	U	0.012	11.8	
206-44-0	Fluoranthene	11.8	U	0.012	11.8	
86-73-7	Fluorene	11.8	U	0.012	11.8	
118-74-1	Hexachlorobenzene	11.8	U	0.012	11.8	
87-68-3	Hexachlorobutadiene	11.8	U	0.012	11.8	
77-47-4	Hexachlorocyclopentadiene	11.8	U	0.012	11.8	
67-72-1	Hexachloroethane	11.8	U	0.012	11.8	
193-39-5	Indeno(1,2,3-cd)pyrene	11.8	U	0.012	11.8	
78-59-1	Isophorone	11.8	U	0.012	11.8	
91-20-3	Naphthalene	11.8	U	0.012	11.8	
100-01-6	4-Nitroaniline	29.4	U	0.012	29.4	
98-95-3	Nitrobenzene	11.8	U	0.012	11.8	
100-02-7	4-Nitrophenol	29.4	U	0.012	29.4	u3
87-86-5	Pentachlorophenol	29.4	U	0.012	29.4	
85-01-8	Phenanthrene	11.8	U	0.012	11.8	
108-95-2	Phenol	11.8	U	0.012	11.8	
129-00-0	Pyrene	11.8	U	0.012	11.8	
621-64-7	N-Nitroso-di-n-propylamine	11.8	U	0.012	11.8	

6/27/05 MFR

CORRECTED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 850 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW62B1012

Contract:

Lab File ID: 2041222/B5119

Lab Sample ID: 20412170409

Date Collected: 12/15/04 Time: 1243

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1659

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	11.8	U	0.012	11.8
95-48-7	o-Cresol	11.8	U	0.012	11.8

CORRECTED

000300

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204121704
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW62B1012
Contract:
Lab File ID: 2041222/B5119
Lab Sample ID: 20412170409
Date Collected: 12/15/04 Time: 1243
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 12/22/04 Time: 1659
Dilution Factor: 1 Analyst: JAR3
Prep Method: OUM 4.2
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	105-60-2	Caprolactam	2.916	14.4	

5/23/05
MM

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2041222.s.b/b5119.d
Lab Smp Id: 20412170409 Client Smp ID: SKGW62B1012
Inj Date : 22-DEC-2004 16:59
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 20412170409*4342*
Misc Info : 20412170409*MSSV~2453~*121704*850-1.0
Comment :
Method : /var/chem/MSSV3.i/2041222.s.b/CLP4.2_02.m.m
Meth Date : 05-Jan-2005 15:55 rlw Quant Type: ISTD
Cal Date : 22-DEC-2004 08:22 Cal File: b5101.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	850.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	1.952	0.945	(1.511)	162250	130.922	77.0
$ 3 Phenol-d5	99	1.667	1.663	(0.895)	225754	106.007	62.4
$ 6 2-Chlorophenol-d4	132	1.724	1.723	(0.925)	102535	112.236	66.0
* 8 1,4-Dichlorobenzene-d4	115	1.663	1.859	(1.000)	25995	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	1.959	1.955	(1.052)	44948	62.3291	36.7
$ 16 Nitrobenzene-d5	82	2.225	2.217	(1.836)	197850	87.1050	51.2
* 23 Naphthalene-d8	136	2.649	2.648	(1.000)	95565	40.0000	
$ 33 2-Fluorobiphenyl	172	3.310	3.309	(1.891)	143579	81.5032	47.9
* 41 Acenaphthene-d10	164	3.713	3.712	(1.000)	51079	40.0000	
$ 53 2,4,6-Tribromophenol	332	4.199	4.200	(1.131)	33983	146.599	86.2
* 58 Phenanthrene-d10	188	4.616	4.616	(1.000)	85211	40.0000	
62 Di-n-butylphthalate	149	4.996	4.998	(1.082)	2394	1.42714	0.839(a)
$ 65 Terphenyl-d14	244	5.629	5.631	(1.881)	158061	64.0870	37.7

Data File: /var/chem/MSSV3.i/2041222.s.b/b5119.d

Date : 22-DEC-2004 16:59

Client ID: 20412170409

Instrument: MSSV3.i

Sample Info: 20412170409*4342*

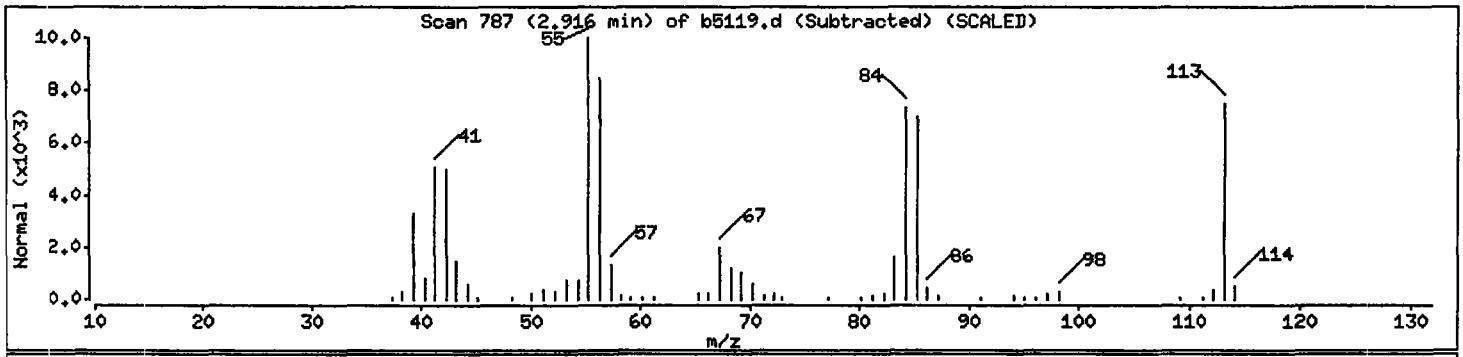
Volume Injected (uL): 2.0

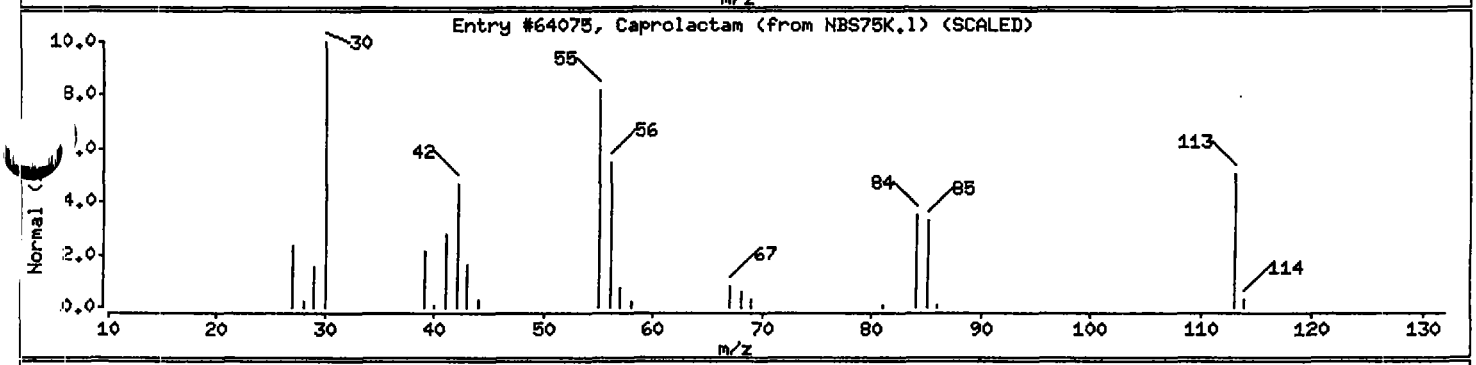
Operator: jar3

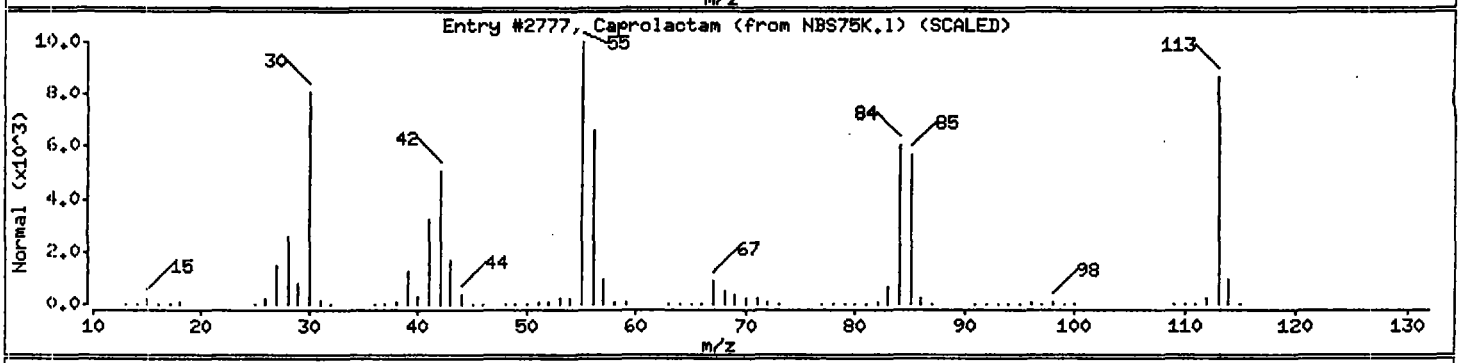
Column phase: DB-5MS-30M

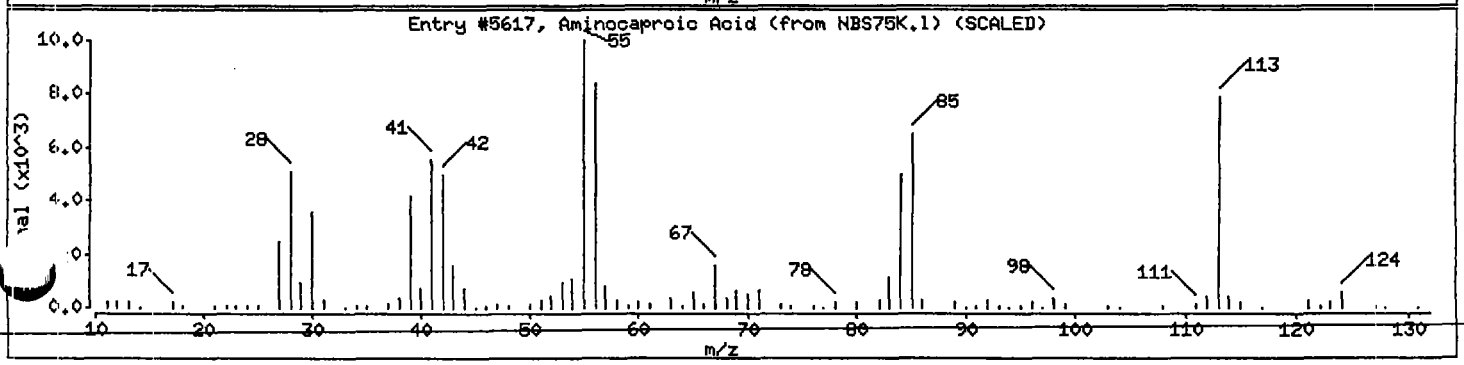
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Caprolactam	105-60-2	NBS75K.1	64075	90	C6H11NO	113
Caprolactam	105-60-2	NBS75K.1	2777	87	C6H11NO	113
Aminocaproic Acid	60-32-2	NBS75K.1	5617	64	C6H13NO2	131









1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204121704
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW641012
Contract:
Lab File ID: 2041222/B5120
Lab Sample ID: 20412170410
Date Collected: 12/15/04 Time: 1437
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 12/22/04 Time: 1719
Dilution Factor: 1 Analyst: JAR3
Prep Method: OLM4.2 SVOA
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 285070 Analytical Batch: 285398

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0	
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0	
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0	
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0	UJ
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0	
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0	
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0	
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0	
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0	
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0	
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0	
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0	
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0	
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0	
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0	
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0	R
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0	
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0	
83-32-9	Acenaphthene	10.0	U	0.010	10.0	
208-96-8	Acenaphthylene	10.0	U	0.010	10.0	
120-12-7	Anthracene	10.0	U	0.010	10.0	
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0	
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0	
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0	
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0	
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0	
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0	
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0	
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0	

6/27/05 mgk

CORRECTED
000308

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW641012

Contract:

Lab File ID: 2041222/B5120

Lab Sample ID: 20412170410

Date Collected: 12/15/04 Time: 1437

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1719

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
117-81-7	bis(2-ethylhexyl)phthalate	~~1.59~~ 10.0	J ~~B~~	0.010	10.0	~~B~~ U
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0	
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	UJ
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	

6/27/05 [illegible]

CORRECTED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW641012

Contract:

Lab File ID: 2041222/B5120

Lab Sample ID: 20412170410

Date Collected: 12/15/04 Time: 1437

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1719

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

CORRECTED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: Units:

Level: (low/med)

% Moisture: not dec.

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW641012

Contract:

Lab File ID: 2041222/B5120

Lab Sample ID: 20412170410

Date Collected: 12/15/04 Time: 1437

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1719

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM 4.2

Analytical Method: SW-846 8270C

Instrument ID: MSSV3

Number TICs Found : 2

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	105-60-2	Caprolactam	2.978	306	
2.		Unknown	5.782	40.9	

SJ 23/05 AR

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2041222.s.b/b5120.d
Lab Smp Id: 20412170410 Client Smp ID: SKGW641012
Inj Date : 22-DEC-2004 17:19
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 20412170410*4342*
Misc Info : 20412170410*MSSV~2453~*121704*1000-1.0
Comment :
Method : /var/chem/MSSV3.i/2041222.s.b/CLP4.2_02.m.m
Meth Date : 05-Jan-2005 15:55 rlw Quant Type: ISTD
Cal Date : 22-DEC-2004 08:22 Cal File: b5101.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	0.955	0.945	(1.513)	151417	127.472	63.7
$ 3 Phenol-d5	99	1.673	1.663	(1.899)	217390	106.500	53.2
$ 6 2-Chlorophenol-d4	132	1.727	1.723	(1.928)	96044	109.684	54.8
* 8 1,4-Dichlorobenzene-d4	115	1.860	1.859	(1.000)	24916	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	1.957	1.955	(1.052)	43966	63.6076	31.8
$ 16 Nitrobenzene-d5	82	2.218	2.217	(1.838)	199972	90.0945	45.0
* 23 Naphthalene-d8	136	2.646	2.648	(1.000)	93385	40.0000	
$ 33 2-Fluorobiphenyl	172	3.310	3.309	(1.892)	157576	85.3770	42.7
* 41 Acenaphthene-d10	164	3.711	3.712	(1.000)	53515	40.0000	
$ 53 2,4,6-Tribromophenol	332	4.199	4.202	(1.132)	38063	156.726	78.4
* 58 Phenanthrene-d10	188	4.616	4.618	(1.000)	83059	40.0000	
$ 65 Terphenyl-d14	244	5.629	5.631	(1.882)	117648	50.6043	25.3
* 69 Chrysene-d12	240	6.384	6.389	(1.000)	90160	40.0000	

Data File: /var/chem/MSSV3.i/2041222.s.b/b5120.d

Date : 22-DEC-2004 17:19

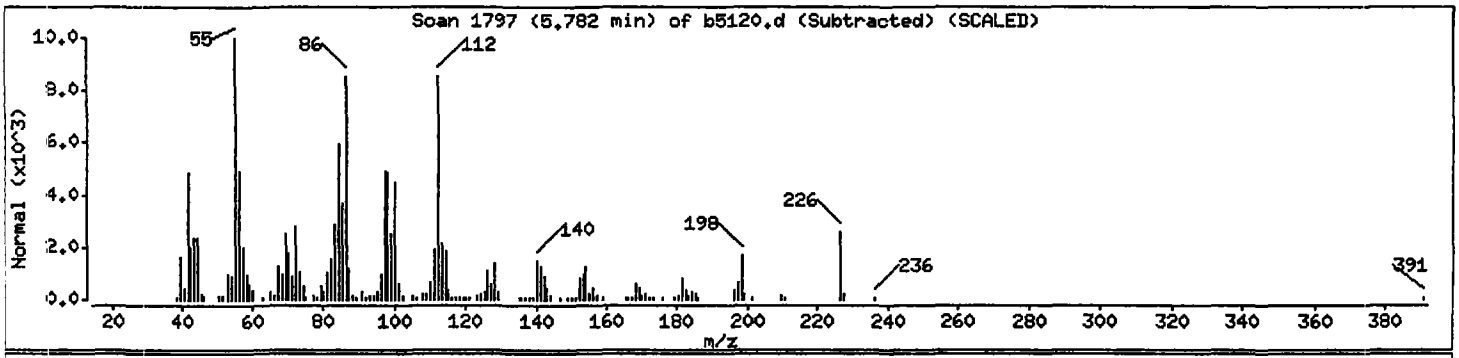
Client ID: 20412170410 Instrument: MSSV3.i

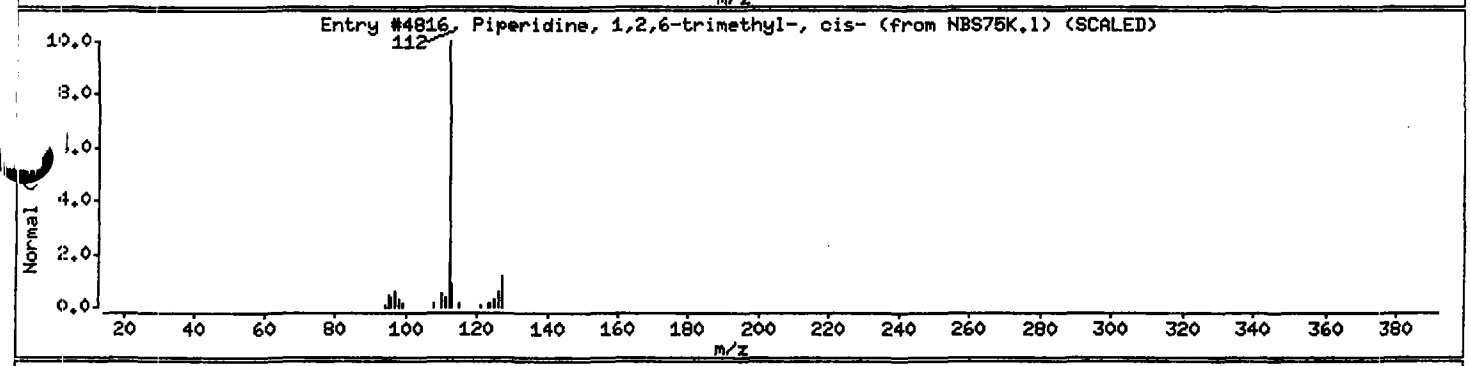
Sample Info: 20412170410M4342M

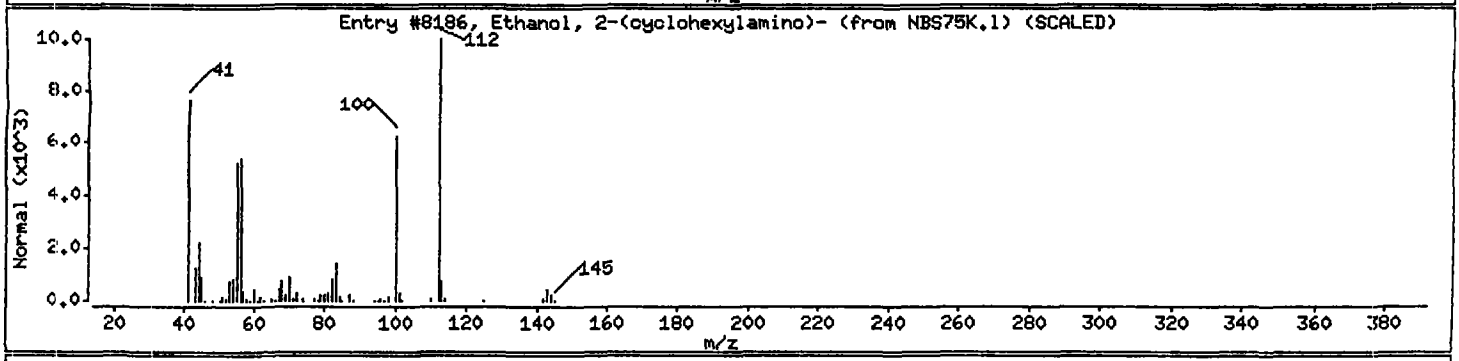
Volume Injected (uL): 2.0 Operator: jar3

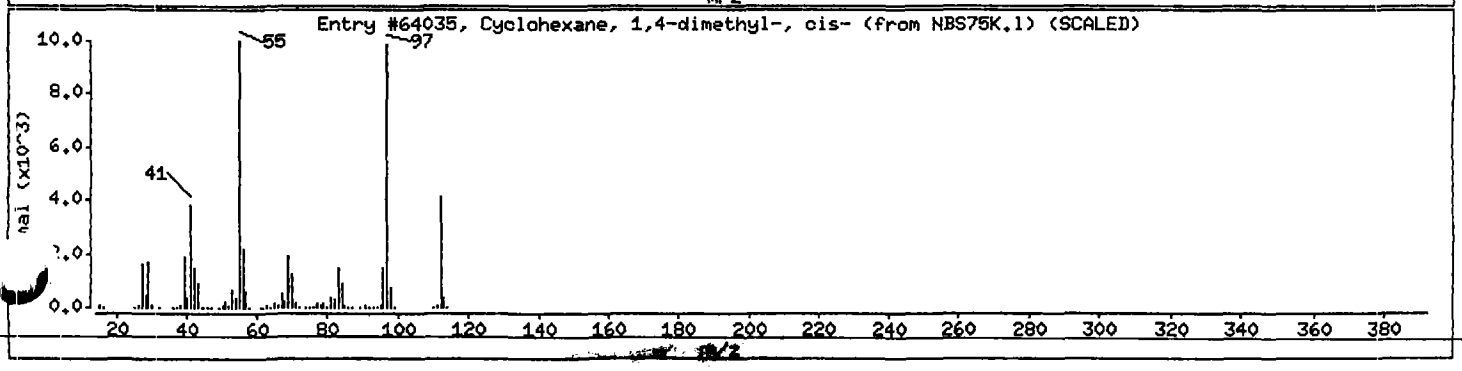
Column phase: DB-5MS-30M Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Piperidine, 1,2,6-trimethyl-, cis-	2439-13-6	NBS75K.l	4816	18	C8H17N	127
Ethanol, 2-(cyclohexylamino)-	2842-38-8	NBS75K.l	8186	18	C8H17NO	143
Cyclohexane, 1,4-dimethyl-, cis-	624-29-3	NBS75K.l	64035	11	C8H16	112









1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW06R1012

Contract:

Lab File ID: 2041222/B5121

Lab Sample ID: 20412170411

Date Collected: 12/14/04 Time: 1334

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1739

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

nstrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0	
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0	
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0	
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0	UJ
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0	
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0	
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0	
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0	
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0	
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0	
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0	
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0	
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0	
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0	
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0	
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0	R
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0	
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0	
83-32-9	Acenaphthene	10.0	U	0.010	10.0	
208-96-8	Acenaphthylene	10.0	U	0.010	10.0	
120-12-7	Anthracene	10.0	U	0.010	10.0	
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0	
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0	
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0	
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0	
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0	
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0	
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0	
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0	

6/27

FORM SV-

CORRECTED

000320

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW06R1012

Contract:

Lab File ID: 2041222/B5121

Lab Sample ID: 20412170411

Date Collected: 12/14/04 Time: 1334

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1739

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
117-81-7	bis(2-ethylhexyl)phthalate	10.0 ~~1.25~~	J B	0.010	10.0	U
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0 ~~0.588~~	J B	0.010	10.0	U
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	UJ
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	

6/29/05 MJG

CORRECTED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW06R1012

Contract:

Lab File ID: 2041222/B5121

Lab Sample ID: 20412170411

Date Collected: 12/14/04 Time: 1334

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1739

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

CORRECTED

000322

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: Units:

Level: (low/med)

% Moisture: not dec.

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW06R1012

Contract:

Lab File ID: 2041222/B5121

Lab Sample ID: 20412170411

Date Collected: 12/14/04 Time: 1334

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1739

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM 04.2

Analytical Method: SW-846 8270C

Instrument ID: MSSV3

Number TICs Found : 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	105-60-2	Caprolactam	2.91	4.34	

5/27/05
[illegible]

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2041222.s.b/b5121.d
Lab Smp Id: 20412170411 Client Smp ID: SKGW06R1012
Inj Date : 22-DEC-2004 17:39
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 20412170411*4342*
Misc Info : 20412170411*MSSV~2453~*121704*1000-1.0
Comment :
Method : /var/chem/MSSV3.i/2041222.s.b/CLP4.2_02.m.m
Meth Date : 05-Jan-2005 15:55 rlw Quant Type: ISTD
Cal Date : 22-DEC-2004 08:22 Cal File: b5101.d
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	CONCENTRATIONS FINAL (ug/L)
$ 1 2-Fluorophenol	112	0.952	0.945	0.512)	214433	130.431	65.2
$ 3 Phenol-d5	99	1.667	1.663	0.896)	326751	115.658	57.8
$ 6 2-Chlorophenol-d4	132	1.724	1.723	0.927	143838	118.685	59.3
* 8 1,4-Dichlorobenzene-d4	115	1.860	1.859	1.000)	34485	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	1.957	1.955	1.052	62718	65.5590	32.8
$ 16 Nitrobenzene-d5	82	2.218	2.217	1.836	272182	87.7086	43.8
* 23 Naphthalene-d8	136	2.646	2.648	1.000	130564	40.0000	
$ 33 2-Fluorobiphenyl	172	3.308	3.309	0.891)	217928	86.7857	43.4
* 41 Acenaphthene-d10	164	3.711	3.712	1.000)	72810	40.0000	
$ 53 2,4,6-Tribromophenol	332	4.199	4.200	1.132)	45442	137.524	68.8
* 58 Phenanthrene-d10	188	4.616	4.618	1.000)	102708	40.0000	
62 Di-n-butylphthalate	149	4.994	4.998	1.082	2379	1.17660	0.588(a)
$ 65 Terphenyl-d14	244	5.626	5.631	1.881)	149746	63.6134	31.8

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW07R1012

Contract:

Lab File ID: 2041222/B5122

Lab Sample ID: 20412170412

Date Collected: 12/14/04 Time: 1433

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1758

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0	
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0	
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0	
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0	UJ
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0	
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0	
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0	
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0	
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0	
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0	
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0	
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0	
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0	
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0	
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0	
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0	R
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0	
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0	
83-32-9	Acenaphthene	10.0	U	0.010	10.0	
208-96-8	Acenaphthylene	10.0	U	0.010	10.0	
120-12-7	Anthracene	10.0	U	0.010	10.0	
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0	
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0	
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0	
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0	
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0	
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0	
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0	
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0	

6/27/05 MR

CORRECTED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204121704
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW07R1012
Contract:
Lab File ID: 2041222/B5122
Lab Sample ID: 20412170412
Date Collected: 12/14/04 Time: 1433
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 12/22/04 Time: 1758
Dilution Factor: 1 Analyst: JAR3
Prep Method: OLM4.2 SVOA
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 285070 Analytical Batch: 285398

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
117-81-7	bis(2-ethylhexyl)phthalate	10.0 ~~1.16~~	J B	0.010	10.0	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0 ~~0.624~~	J B	0.010	10.0	
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	

6/14/05 MC

CORRECTED
000332

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW07R1012

Contract:

Lab File ID: 2041222/B5122

Lab Sample ID: 20412170412

Date Collected: 12/14/04 Time: 1433

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1758

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

CORRECTED

000333

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204121704
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: ID: (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW07R1012
Contract:
Lab File ID:
Lab Sample ID: 20412170412
Date Collected: 12/14/04 Time: 1433
Date Received: 12/17/04
Date Extracted: 12/20/-4
Date Analyzed: 12/22/04 Time: 1758
Dilution Factor: 1 Analyst: RLW
Prep Method: OLM 04.2
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

5/23/05
[illegible]

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGWEB1012

Contract:

Lab File ID: 2041222/B5123

Lab Sample ID: 20412170413

Date Collected: 12/15/04 Time: 1540

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1818

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0	
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0	
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0	
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0	UJ
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0	
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0	
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0	
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0	
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0	
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0	
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0	
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0	
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0	
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0	
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0	
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0	R
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0	
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0	
83-32-9	Acenaphthene	10.0	U	0.010	10.0	
208-96-8	Acenaphthylene	10.0	U	0.010	10.0	
120-12-7	Anthracene	10.0	U	0.010	10.0	
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0	
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0	
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0	
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0	
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0	
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0	
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0	
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0	

6/27/05 MSL

CORRECTED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204121704
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGWEB1012
Contract:
Lab File ID: 2041222/B5123
Lab Sample ID: 20412170413
Date Collected: 12/15/04 Time: 1540
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 12/22/04 Time: 1818
Dilution Factor: 1 Analyst: JAR3
Prep Method: OLM4.2 SVOA
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 285070 Analytical Batch: 285398

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
117-81-7	bis(2-ethylhexyl)phthalate	10.0 ~~1.02~~	J B	0.010	10.0	u
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0 ~~0.876~~	J B	0.010	10.0	u
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	uJ
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	

6/29/05 MSW

CORRECTED
000342

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGWEB1012

Contract:

Lab File ID: 2041222/B5123

Lab Sample ID: 20412170413

Date Collected: 12/15/04 Time: 1540

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1818

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

CORRECTED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204121704
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGWEB1012
Contract:
Lab File ID: 2041222/B5123
Lab Sample ID: 20412170413
Date Collected: 12/15/04 Time: 1540
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 12/22/04 Time: 1818
Dilution Factor: 1 Analyst: JAR3
Prep Method: OLM 04.2
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	96-76-4	Phenol, 2,4-bis(1,1-dimethylet	3.736	15.2	

5/23/05
MSM

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGWFB1012

Contract:

Lab File ID: 2041223/B5132

Lab Sample ID: 20412170414

Date Collected: 12/15/04 Time: 1555

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/23/04 Time: 0933

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285461

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0

R

6/27/05 MR

CORRECTED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGWFB1012

Contract:

Lab File ID: 2041223/B5132

Lab Sample ID: 20412170414

Date Collected: 12/15/04 Time: 1555

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/23/04 Time: 0933

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285461

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
117-81-7	bis(2-ethylhexyl)phthalate	~~1.12~~ 10.0	J B	0.010	10.0	U
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	~~0.557~~ 10.0	J B	0.010	10.0	U
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	UJ
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	

6/27/05 MSL

CORRECTED

000354

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGWFB1012

Contract:

Lab File ID: 2041223/B5132

Lab Sample ID: 20412170414

Date Collected: 12/15/04 Time: 1555

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/23/04 Time: 0933

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285461

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

CORRECTED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204121704
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: ID: (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGWFB1012
Contract:
Lab File ID:
Lab Sample ID: 20412170414
Date Collected: 12/15/04 Time: 1555
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 12/23/04 Time: 0933
Dilution Factor: 1 Analyst: RLW
Prep Method: OLM04.2
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found: 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

5/23/05
MK

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW61MS1012

Contract:

Lab File ID: 2041222/B5114

Lab Sample ID: 20412170403

Date Collected: 12/16/04 Time: 1008

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1521

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	48.5		0.010	10.0
606-20-2	2,6-Dinitrotoluene	57.2		0.010	10.0
91-58-7	2-Chloronaphthalene	16.0		0.010	10.0
95-57-8	2-Chlorophenol	56.6		0.010	10.0
91-57-6	2-Methylnaphthalene	18.8		0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	58.5		0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	41.4		0.010	10.0
208-96-8	Acenaphthylene	12.5		0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	1.44	J	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0

R

1/27/05

CORRECTED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW61MS1012

Contract:

Lab File ID: 2041222/B5114

Lab Sample ID: 20412170403

Date Collected: 12/16/04 Time: 1008

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1521

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
117-81-7	bis(2-ethylhexyl)phthalate	10.0 ~~0.586~~	J B	0.010	10.0	K
101-55-3	4-Bromophenyl-phenylether	1.97	J	0.010	10.0	
85-68-7	Butylbenzylphthalate	0.591	J	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0 1.01	J B	0.010	10.0	K
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	46.7		0.010	10.0	
86-73-7	Fluorene	1.18	J	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	1.19	J	0.010	10.0	
100-02-7	4-Nitrophenol	107		0.010	25.0	J
87-86-5	Pentachlorophenol	99.7		0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	54.9		0.010	10.0	
129-00-0	Pyrene	32.9		0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	36.2		0.010	10.0	

6/27/05 AG

CORRECTED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW61MS1012

Contract:

Lab File ID: 2041222/B5114

Lab Sample ID: 20412170403

Date Collected: 12/16/04 Time: 1008

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1521

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	4.34	J	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

CORRECTED

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2041222.s.b/b5114.d
Lab Smp Id: 20412170403 Client Smp ID: SKGW611012MS
Inj Date : 22-DEC-2004 15:21
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 20412170403*4342*
Misc Info : 20412170403*MSSV~2453~*121704*1000-1.0
Comment :
Method : /var/chem/MSSV3.i/2041222.s.b/CLP4.2_02.m.m
Meth Date : 21-Jan-2005 14:37 rlw Quant Type: ISTD
Cal Date : 22-DEC-2004 08:22 Cal File: b5101.d
Als bottle: 15 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	CONCENTRATIONS FINAL (ug/L)
$ 1 2-Fluorophenol	112	0.949	0.945	(0.510)	152214	133.378	66.7
2 Benzaldehyde	77	1.721	1.572	(0.925)	8098	4.59224	2.30(a)
$ 3 Phenol-d5	99	1.664	1.663	(0.895)	230163	117.364	58.7
4 Phenol +	94	1.673	1.672	(0.899)	253532	109.718	54.8
5 bis(-2-Chloroethyl)Ether	93	1.730	1.703	(0.930)	5142	2.88022	1.44(a)
$ 6 2-Chlorophenol-d4	132	1.721	1.723	(0.925)	101103	120.179	60.1
7 2-Chlorophenol	128	1.732	1.731	(0.931)	95724	113.216	56.6
* 8 1,4-Dichlorobenzene-d4	115	1.860	1.859	(1.000)	23938	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	1.957	1.955	(1.052)	43991	66.2439	33.1
12 Acetophenone	105	1.721	2.126	(0.925)	4670	2.19484	1.10(a)
14 N-Nitroso-di-n-propylamine ++	70	2.130	2.131	(1.145)	112558	72.4807	36.2
$ 16 Nitrobenzene-d5	82	2.218	2.217	(0.838)	184535	87.2182	43.6
17 Nitrobenzene	77	1.957	2.231	(0.739)	5273	2.37028	1.18(a)

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW61MSD1012

Contract:

Lab File ID: 2041222/B5115

Lab Sample ID: 20412170404

Date Collected: 12/16/04 Time: 1008

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1540

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	52.8		0.010	10.0
606-20-2	2,6-Dinitrotoluene	62.3		0.010	10.0
91-58-7	2-Chloronaphthalene	15.5		0.010	10.0
95-57-8	2-Chlorophenol	60.4		0.010	10.0
91-57-6	2-Methylnaphthalene	20.6		0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	63.2		0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	42.4		0.010	10.0
208-96-8	Acenaphthylene	12.9		0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	1.53	J	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	0.508	J	0.010	10.0

R

1/27/05 RR

CORRECTED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204121704
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW61MSD1012
Contract:
Lab File ID: 2041222/B5115
Lab Sample ID: 20412170404
Date Collected: 12/16/04 Time: 1008
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 12/22/04 Time: 1540
Dilution Factor: 1 Analyst: JAR3
Prep Method: OLM4.2 SVOA
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
117-81-7	bis(2-ethylhexyl)phthalate	10.0 ~~4.07~~	J B	0.010	10.0	K
101-55-3	4-Bromophenyl-phenylether	2.02	J	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	4.60	J	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0 ~~0.817~~	J B	0.010	10.0	K
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	50.5		0.010	10.0	
86-73-7	Fluorene	1.24	J	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	121		0.010	25.0	J
87-86-5	Pentachlorophenol	111		0.010	25.0	
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	58.6		0.010	10.0	
129-00-0	Pyrene	33.4		0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	38.6		0.010	10.0	

6/22/05 ML

CORRECTED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204121704

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW61MSD1012

Contract:

Lab File ID: 2041222/B5115

Lab Sample ID: 20412170404

Date Collected: 12/16/04 Time: 1008

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 12/22/04 Time: 1540

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285070 Analytical Batch: 285398

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	4.51	J	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

CORRECTED

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-50-30M ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285069 Analytical Batch: 285803

Sample ID: SKGW611012
Contract:
SAS No.: SDG No.: 204121704
Lab Sample ID: 20412170402
Date Collected: 12/16/04 Time: 0955
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 01/04/05 Time: 0225
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS11A
Lab File ID: 2050103P/SV11020

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

Data File: /var/chem/gcsv11.i/2050103P.b/SV11020.d
Report Date: 27-Jan-2005 08:02

GCAL, Inc.

Sample #1 : /var/chem/gcsv11.i/2050103P.b/SV11020.d
Sample #2 : /var/chem/gcsv3ad.i/2050104.b/SV3020.d
Inj Date : 04-JAN-2005 02:25
Sample Info: 20412170402-1.0-GCSV~45XX~-204121704--et 1000 10
Misc Info :
Cal Date : 27-JAN-2005 07:56
Operator : dlb
Inst ID : gcsv11.i
Dil Factor : 1.000000

Method #1 : /var/chem/gcsv11.i/2050103P.b/pestclp-f.m
Method #2 : /var/chem/gcsv3ad.i/2050104.b/pestclp-f.m
Sub List #1 : all.sub
Sub List #2 : all.sub
Col #1 Phase : RTX-50-30M
Col #2 Phase : RTX-1701-30M

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

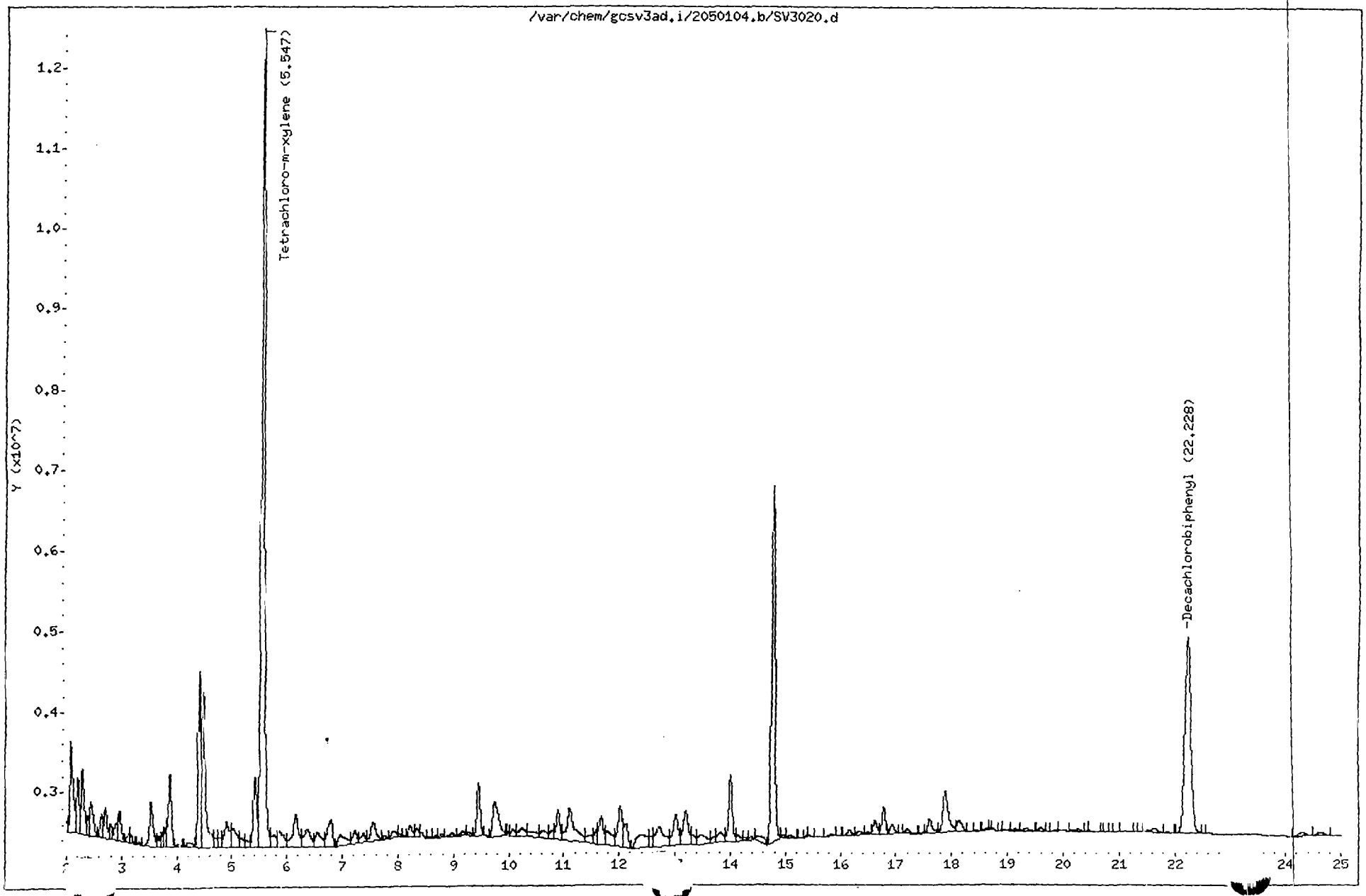
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

000427

Data File: /var/chem/gcsv3ad.i/2050104.b/SV3020.d
Date : 04-JAN-2005 18:19
Client ID: SKGW611012
Sample Info: 20412170402-1.0-CCSV~45XX~-204121704--et 1000 10
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv3ad.i
Operator: dlb
Column diameter: 0.53



000430

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-50-30M ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285069 Analytical Batch: 285803

Sample ID: SKGW591012
Contract:
SAS No.: SDG No.: 204121704
Lab Sample ID: 20412170406
Date Collected: 12/15/04 Time: 1138
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 01/04/05 Time: 0400
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS11A

CONCENTRATION UNITS: ug/L

Lab File ID: 2050103P/SV11023

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-50-30M ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285069 Analytical Batch: 285803

Sample ID: SKGW601012
Contract:
SAS No.: SDG No.: 204121704
Lab Sample ID: 20412170407
Date Collected: 12/15/04 Time: 1157
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 01/04/05 Time: 0432
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS11A

CONCENTRATION UNITS: ug/L
Lab File ID: 2050103P/SV11024

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

Data File: /var/chem/gcsv11.i/2050103P.b/SV11024.d
Report Date: 27-Jan-2005 08:02

GCAL, Inc.

Sample #1 : /var/chem/gcsv11.i/2050103P.b/SV11024.d
Sample #2 : /var/chem/gcsv3ad.i/2050104.b/SV3024.d
Inj Date : 04-JAN-2005 04:32
Sample Info: 20412170407-1.0-GCSV~45XX~-204121704--et 1000 10
Misc Info :
Cal Date : 27-JAN-2005 07:56
Operator : dlb
Inst ID : gcsv11.i
Dil Factor : 1.000000

Method #1 : /var/chem/gcsv11.i/2050103P.b/pestclp-f.m
Method #2 : /var/chem/gcsv3ad.i/2050104.b/pestclp-f.m
Sub List #1 : all.sub
Sub List #2 : all.sub
Col #1 Phase : RTX-50-30M
Col #2 Phase : RTX-1701-30M

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

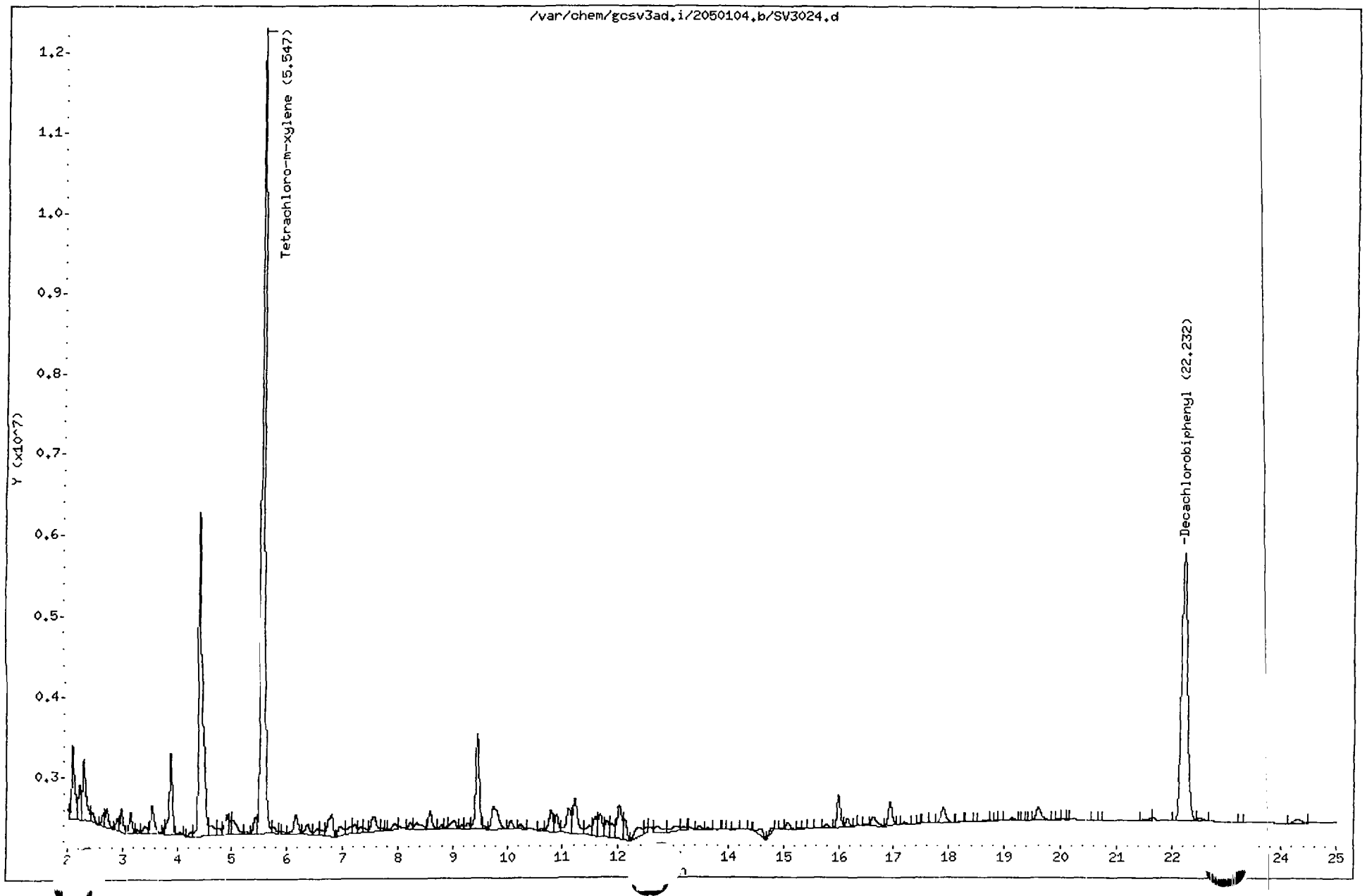
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

000437

Data File: /var/chem/gcsv3ad.i/2050104.b/SV3024.d
Date : 04-JAN-2005 20:18
Client ID: SKGW601012
Sample Info: 20412170407-1.0-GCSV~45XX~-204121704--et 1000 10
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv3ad.i
Operator: dlb
Column diameter: 0.53



000440

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-50-30M ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285069 Analytical Batch: 285803

Sample ID: SKGW62A1012
Contract:
SAS No.: SDG No.: 204121704
Lab Sample ID: 20412170408
Date Collected: 12/15/04 Time: 1223
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 01/04/05 Time: 0504
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS11A

CONCENTRATION UNITS: ug/L

Lab File ID: 2050103P/SV11025

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-50-30M ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285069 Analytical Batch: 285803
CONCENTRATION UNITS: ug/L

Sample ID: SKGW641012
Contract:
SAS No.: SDG No.: 204121704
Lab Sample ID: 20412170410
Date Collected: 12/15/04 Time: 1437
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 01/04/05 Time: 0535
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS11A
Lab File ID: 2050103P/SV11026

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

Data File: /var/chem/gcsv11.i/2050103P.b/SV11026.d
Report Date: 27-Jan-2005 08:03

GCAL, Inc.

Sample #1 : /var/chem/gcsv11.i/2050103P.b/SV11026.d
Sample #2 : /var/chem/gcsv3ad.i/2050104.b/SV3026.d
Inj Date : 04-JAN-2005 05:35
Sample Info: 20412170410-1.0-GCSV~45XX~-204121704--et 1000 10
Misc Info :
Cal Date : 27-JAN-2005 07:56
Operator : dlb
Inst ID : gcsv11.i
Dil Factor : 1.000000

Method #1 : /var/chem/gcsv11.i/2050103P.b/pestclp-f.m
Method #2 : /var/chem/gcsv3ad.i/2050104.b/pestclp-f.m
Sub List #1 : all.sub
Sub List #2 : all.sub
Col #1 Phase : RTX-50-30M
Col #2 Phase : RTX 1701-30M

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

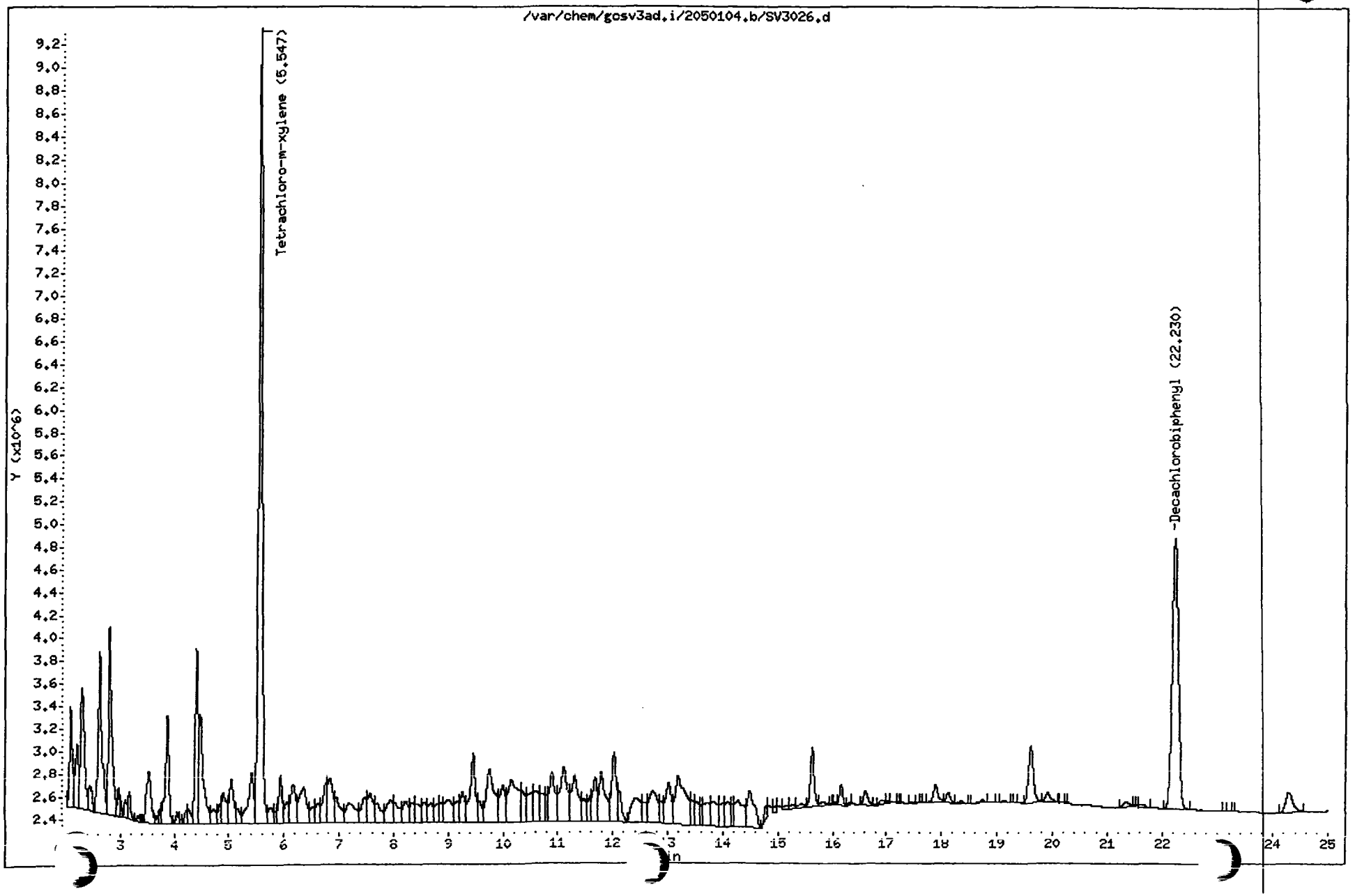
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

0004447

Data File: /var/chem/gcsv3ad.i/2050104.b/SV3026.d
Date : 04-JAN-2005 21:17
Client ID: SKGW641012
Sample Info: 20412170410-1.0-GCSV"45XX"-204121704--et 1000 10
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv3ad.i
Operator: dlb
Column diameter: 0.53



000450

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-50-30M ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 285069 Analytical Batch: 285803

Sample ID: SKGW06R1012

Contract:

SAS No.: SDG No.: 204121704

Lab Sample ID: 20412170411

Date Collected: 12/14/04 Time: 1334

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 01/04/05 Time: 0607

Dilution Factor: 1 Analyst: DLB

Prep Method: OLM4.2 PEST/PCB

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS11A

Lab File ID: 2050103P/SV11027

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-50-30M ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285069 Analytical Batch: 285803

Sample ID: SKGW07R1012
Contract:
SAS No.: SDG No.: 204121704
Lab Sample ID: 20412170412
Date Collected: 12/14/04 Time: 1433
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 01/04/05 Time: 0814
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS11A

CONCENTRATION UNITS: ug/L
Lab File ID: 2050103P/SV11031

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.000100	0.100
72-55-9	4,4'-DDE	0.100	U	0.000100	0.100
50-29-3	4,4'-DDT	0.100	U	0.000100	0.100
309-00-2	Aldrin	0.050	U	0.000100	0.050
12674-11-2	Aroclor-1016	1.00	U	0.000100	1.00
11104-28-2	Aroclor-1221	2.00	U	0.000100	2.00
11141-16-5	Aroclor-1232	1.00	U	0.000100	1.00
53469-21-9	Aroclor-1242	1.00	U	0.000100	1.00
12672-29-6	Aroclor-1248	1.00	U	0.000100	1.00
11097-69-1	Aroclor-1254	1.00	U	0.000100	1.00
11096-82-5	Aroclor-1260	1.00	U	0.000100	1.00
60-57-1	Dieldrin	0.100	U	0.000100	0.100
959-98-8	Endosulfan I	0.050	U	0.000100	0.050
33213-65-9	Endosulfan II	0.100	U	0.000100	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.000100	0.100
72-20-8	Endrin	0.100	U	0.000100	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.000100	0.100
53494-70-5	Endrin ketone	0.100	U	0.000100	0.100
76-44-8	Heptachlor	0.050	U	0.000100	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.000100	0.050
72-43-5	Methoxychlor	0.500	U	0.000100	0.500
8001-35-2	Toxaphene	5.00	U	0.000100	5.00
319-84-6	alpha-BHC	0.050	U	0.000100	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.000100	0.050
319-85-7	beta-BHC	0.050	U	0.000100	0.050
319-86-8	delta-BHC	0.050	U	0.000100	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.000100	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.000100	0.050

UJ

6/27/05 MSK

ADDITION
000455A

Data File: /var/chem/gcsv11.i/2050103P.b/SV11031.d
Report Date: 27-Jan-2005 08:03

GCAL, Inc.

Sample #1 : /var/chem/gcsv11.i/2050103P.b/SV11031.d
Sample #2 : /var/chem/gcsv3ad.i/2050105.b/SV3018.d
Inj Date : 04-JAN-2005 08:14
Sample Info: 20412170412-1.0-GCSV~45XX~-204121704--et 1000 10
Misc Info :
Cal Date : 27-JAN-2005 07:56
Operator : dlb
Inst ID : gcsv11.i
Dil Factor : 1.000000

Method #1 : /var/chem/gcsv11.i/2050103P.b/pestclp-f.m
Method #2 : /var/chem/gcsv3ad.i/2050105.b/pestclp-f.m
Sub List #1 : all.sub
Sub List #2 : all.sub
Col #1 Phase : RTX-50-30M
Col #2 Phase : RTX-1701-30M

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

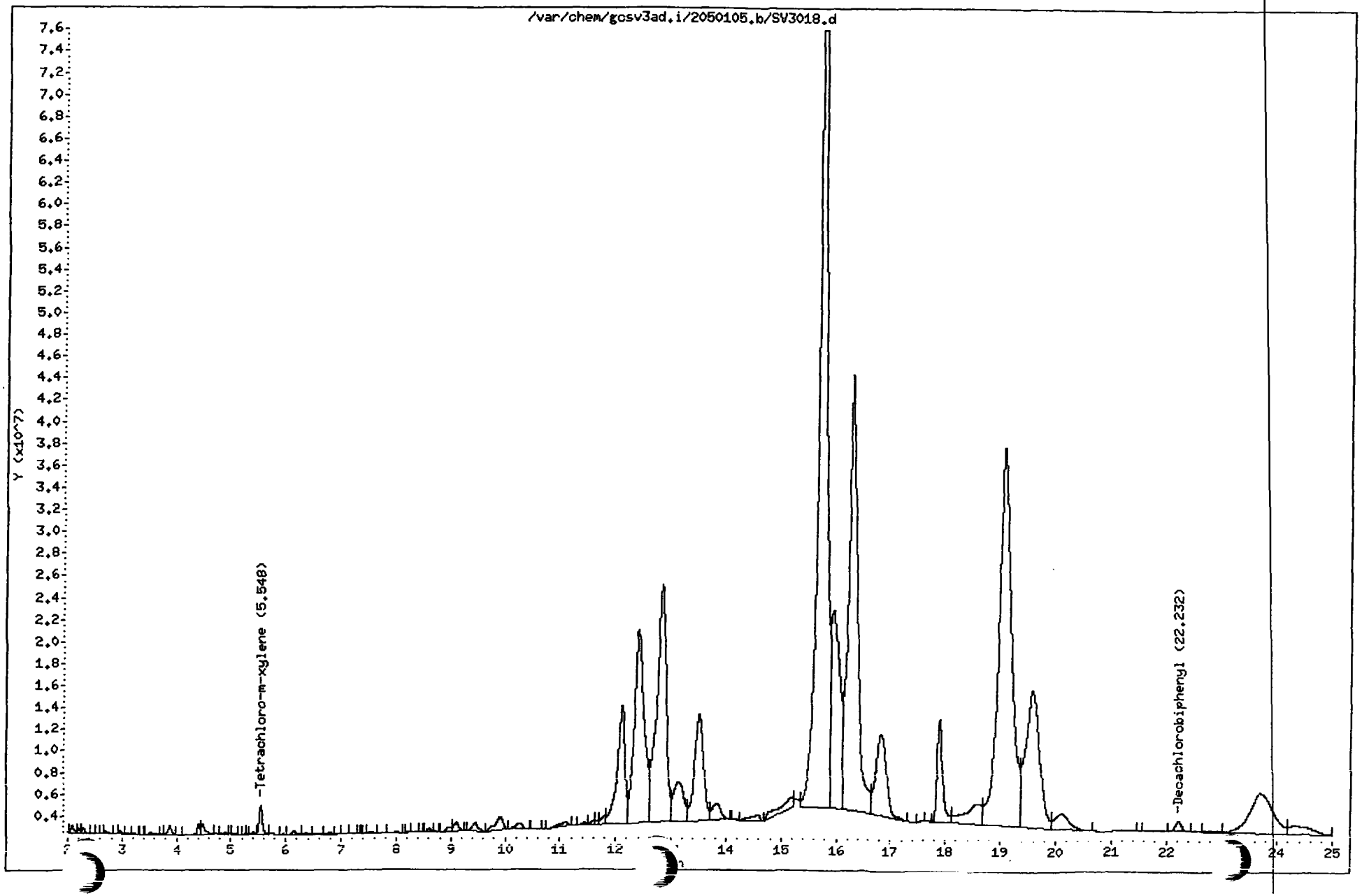
Cpnd Variable Local Compound Variable

000456

Data File: /var/chem/gcsv3ad.i/2050105.b/SV3018.d
Date : 05-JAN-2005 19:55
Client ID: SKGW07R1012
Sample Info: 20412170412-1.0-GCSV^45XX^-204121704--et 1000 10
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv3ad.i
Operator: dlb
Column diameter: 0.53

000459



1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-50-30M ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 285069 Analytical Batch: 285803

Sample ID: SKGWEB1012

Contract:

SAS No.: SDG No.: 204121704

Lab Sample ID: 20412170413

Date Collected: 12/15/04 Time: 1540

Date Received: 12/17/04

Date Extracted: 12/20/04

Date Analyzed: 01/04/05 Time: 0949

Dilution Factor: 1 Analyst: DLB

Prep Method: OLM4.2 PEST/PCB

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS11A

Lab File ID: 2050103P/SV11034

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-50-30M ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285069 Analytical Batch: 285803

Sample ID: SKGWFB1012
Contract:
SAS No.: SDG No.: 204121704
Lab Sample ID: 20412170414
Date Collected: 12/15/04 Time: 1555
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 01/04/05 Time: 1021
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS11A

CONCENTRATION UNITS: ug/L
Lab File ID: 2050103P/SV11035

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

Data File: /var/chem/gcsv11.i/2050103P.b/SV11035.d
Report Date: 27-Jan-2005 08:03

GCAL, Inc.

Sample #1 : /var/chem/gcsv11.i/2050103P.b/SV11035.d
Sample #2 : /var/chem/gcsv3ad.i/2050105.b/SV3022.d
Inj Date : 04-JAN-2005 10:21
Sample Info: 20412170414-1.0-GCSV~45XX~-204121704--et 1000 10
Misc Info :
Cal Date : 27-JAN-2005 07:56
Operator : dlb
Inst ID : gcsv11.i
Dil Factor : 1.000000

Method #1 : /var/chem/gcsv11.i/2050103P.b/pestclp-f.m
Method #2 : /var/chem/gcsv3ad.i/2050105.b/pestclp-f.m
Sub List #1 : all.sub
Sub List #2 : all.sub
Col #1 Phase : RTX-50-30M
Col #2 Phase : RTX-1701 30M

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

000466

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-50-30M ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285069 Analytical Batch: 285803

Sample ID: SKGW61MS1012
Contract:
SAS No.: SDG No.: 204121704
Lab Sample ID: 20412170403
Date Collected: 12/16/04 Time: 1008
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 01/04/05 Time: 0257
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS11A

CONCENTRATION UNITS: ug/L

Lab File ID: 2050103P/SV11021

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.022	J	0.00010	0.100
72-55-9	4,4'-DDE	0.077	J	0.00010	0.100
50-29-3	4,4'-DDT	0.637		0.00010	0.100
309-00-2	Aldrin	0.300		0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.559		0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.682		0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.016	J	0.00010	0.100
76-44-8	Heptachlor	0.283		0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.223		0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

Data File: /var/chem/gcsv11.i/2050103P.b/SV11021.d
Report Date: 14-Jan-2005 15:40

GCAL, Inc.

Sample #1 : /var/chem/gcsv11.i/2050103P.b/SV11021.d
Sample #2 : /var/chem/gcsv3ad.i/2050104.b/SV3021.d
Inj Date : 04-JAN-2005 02:57
Sample Info: 20412170403-1.0-GCSV~45XX~-204121704--et 1000 10
Misc Info :
Cal Date : 14-JAN-2005 15:30
Operator : dlb
Inst ID : gcsv11.i
Dil Factor : 1.000000

Method #1 : /var/chem/gcsv11.i/2050103P.b/pestclp-f.m
Method #2 : /var/chem/gcsv3ad.i/2050104.b/pestclp-f.m
Sub List #1 : all.sub
Sub List #2 : all.sub
Col #1 Phase : RTX-50-30M
Col #2 Phase : RTX-1701-30M

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

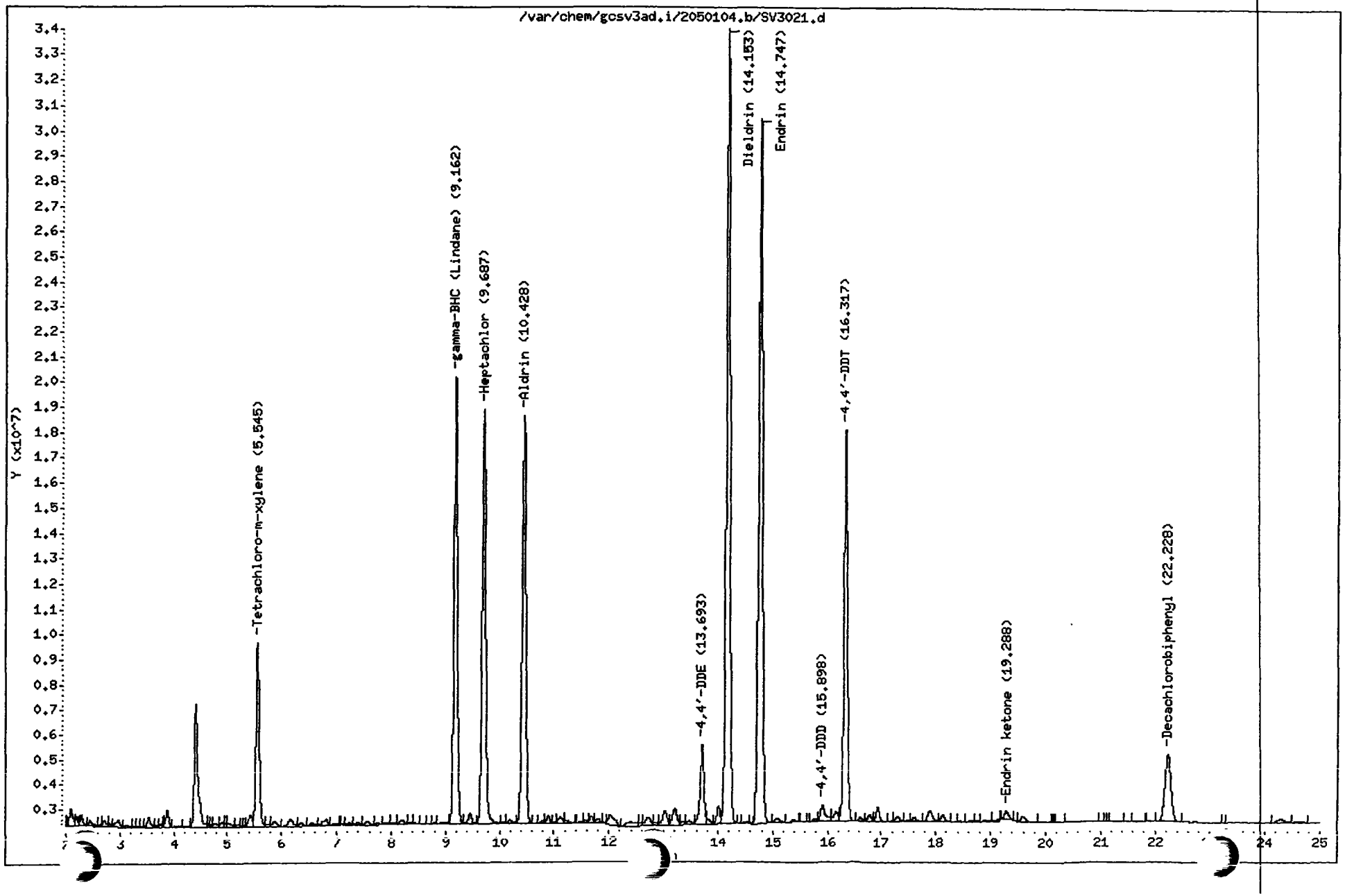
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable **Local Compound Variable**

000649

Data File: /var/chem/gcsv3ad.i/2050104.b/SV3021.d
Date : 04-JAN-2005 18:49
Client ID: SKGW61MS1012
Sample Info: 20412170403-1.0-GCSV"45XX"-204121704--et 1000 10
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv3ad.i
Operator: dlb
Column diameter: 0.53



000652

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-50-30M ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285069 Analytical Batch: 285803

Sample ID: SKGW61MSD1012
Contract:
SAS No.: SDG No.: 204121704
Lab Sample ID: 20412170404
Date Collected: 12/16/04 Time: 1008
Date Received: 12/17/04
Date Extracted: 12/20/04
Date Analyzed: 01/04/05 Time: 0329
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS11A

CONCENTRATION UNITS: ug/L

Lab File ID: 2050103P/SV11022

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.024	J	0.00010	0.100
72-55-9	4,4'-DDE	0.091	J	0.00010	0.100
50-29-3	4,4'-DDT	0.703		0.00010	0.100
309-00-2	Aldrin	0.318		0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.579		0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.709		0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.016	J	0.00010	0.100
76-44-8	Heptachlor	0.300		0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.232		0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only			
Earth Tech	4342	20412180 4/	1-3-05
Client Name	Client #	Workorder #	Due Date

Report to:
Client: Earth Tech
Address: 8373 Progress Dr
Hebron, KY 41048
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

Bill to:
Client:
Address: Bill to
Contact: Glenn Springs
Phone:
Fax: Contract

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill - 4th Qtr 04
Sampled By: Pat Higgins / Karen Batey

Lab use only:
Custody Seal used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 3°

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Volatiles	Semi-Volatiles	Pesticides	PCB's	Total Metals	Dissolved Metals	Cyanide				Remarks:	Lab ID 12/17
W	12-16-04	0925		X	SKGW63 1012	various	17		X	X	X	X	X	X	DISS -		17	Refer to Table 17	-1
W	12-16-04	0955		X	SKGW61 1012	various	17		X	X	X	X	X	X			-18	(TCL) and	-2
																		Table 8 (TAL)	
																		of the Final	
																		GAM Plan for	
																		the list of analytes	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Karen Batey	Fedex	12-16-04	1800
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Fedex 7908 6217 5304	M Collier	12-17-04	0930
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: Sample sent via fedex
Standard turnaround

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GCAL

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7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Earth Tech	4342	204121704	1-3-05

Report to:
Client: Earth Tech
Address: 2373 Progress Dr
Hebron, KY 41048
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

Bill to:
Client:
Address:
Bill to:
Contact:
Phone: Glenn Springs
Fax: Contract

P.O. Number: 54280.01
Project Name/Number: Kinner Landfill-4th Qtr 04
Sampled By: Pat Higgins / Karen Batey

Analytical Requests & Method

Lab use only:
Custody Seal
used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 3

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Volatiles	Semi-volatiles	Pesticides	PCBs	Total metals	Dissolved metals	Cyanide				Remarks:	Lab ID 12/7
W	12/6/04	1058		x	SKGW61MS1012	Various	7		x	x	x	x	x	x	Diss		-19	Refer to Table 7	-3
W	12/6/04	1026		x	SKGW61MSD1012	Various	7		x	x	x	x	x	x			-20	(TCL) and Tables	-4 Dup
																		(TCL) of the	
																		Final Ox M Plan	
																		for the list	
																		of analytes	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Karen Batey	Fedex	12/6/04	1800
Fedex 7908 6 5400	M [illegible]	12-7-04	0930
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: Sample sent via fedex standard turnaround

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000851

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only			
Earth Tech	4342	204121704	1-3-05
Client Name	Client #	Workorder #	Due Date

Report to:
Client: Earth Tech
Address: 2373 Progress Dr
Hebron, KY 41048
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

Bill to:
Client:
Address: Bill to:
Contact: Glenn Springs
Phone: Contract
Fax:

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill - 4th Quarter 04
Sampled By: Pat Higgins / Karen Batey

Analytical Requests & Method

Lab use only:
Custody Seal
used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 3

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Volatiles	Semi-volatiles	Pesticides	PCBs	Total metals	Dissolved metals	Cyanide				Remarks:	Lab ID 12/17
W	12-15-04	1138		X	SKGW591012	various	7		X	X	X	X	X	X		DISS	-21	Refer to	-6
W	12-15-04	1157		X	SKGW601012	various	5		X	X	X	X	X	X			-22	Table 7 (TCL)	-7
																		and Table 8 (TAC)	
																		of the final	
																		O&M Plan for	
																		the list of analytes	

000852

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Karen Batey	Fed ex	12-16-04	1800
Fedex 7903 C217 5351	M. [illegible]	12-17-04	0930

Note: Sample sent via fed ex
Standard turnaround

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CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Earth Tech	4342	204121704	1-3-05

Report to:
Client: Earth Tech
Address: 2373 Progress Dr
Hebron, KY 41048
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

Bill to:
Client:
Address: Bill to:
Contact: Glenn Springs
Phone:
Fax: Contract

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill 4th Quarter 04
Sampled By: Pat Higgins / Karen Batey

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
in tact ☐ yes ☐ no
Temperature °C 3°

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Volatiles	Semi-volatiles	Pesticides	PCBs	Total Metals	Dissolved Metals	Cyanide		Remarks:	Lab ID 12/17
W	12/5/04	1223		X	SKGW62A1012	various	7		X	X	X	X	X	X	DISS-23	Refer to Table 7	8
W	12/5/04	1243		X	SKGW62B1012	various	1		X							(TCL) and	-9
W	12/5/04	1437		X	SKGW64 1012	various	7		X	X	X	X	X	X	-24	Table 8 (TAC)	-10
																of the Final	
																O&M Plan for	
																the list of	
																anaytes	

000853

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Karen Batey	Fedex	12-16-04	1800
Fedex 7908 5498	Michelle [illegible]	12-17-04	0430
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: Sample sent via fedex standard turnaround

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only			
Earth Tech	4342	204121704	1-3-05
Client Name	Client #	Workorder #	Due Date

Report to:
Client: Earth Tech
Address: 2373 Progress Dr
Hebron, KY 41048
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

Bill to:
Client:
Address:
Bill to:
Contact: Glenn Springs
Phone:
Fax: Contract

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill - 4th Qtr 04
Sampled By: Pat Higgins / Karen Botey

Analytical Requests & Method

Lab use only:
Custody Seal
used ☐ yes ☐ no
in tact ☐ yes ☐ no
Temperature °C 3°

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Volatiles	Semivolatiles	Pesticides	PCB's	Total Metals	Dissolved Metal	Cyanide				Remarks:	Lab ID 12/17
W	12-14-04	1334		X	SKGW06R1012	Various	7		X	X	X	X	X	X		Diss	-25	Refer to Table 7 (TCL)	11
W	12-14-04	1433		X	SKGW07R1012	Various	7		X	X	X	X	X	X			-26	and Table 8 (TAC)	12
																		of the Final	
																		O&M Plan for	
																		the list of	
																		analytes	

000854

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Karen Botey	Fed ex	12-16-04	1800
Fed ex 7900 62175465	[signature]	12-17-04	0930

Note: Sample sent via fed ex
Standard turnaround

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Earth Tech	4342	204121704	1-3-05

Report to:
Client: Earth Tech
Address: 2373 Progress Dr
Heboron, KY 41045
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

Bill to:
Client:
Address: Bill to:
Contact: Glenn Springs
Phone: Contract
Fax:

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill - 4th Qtr 04
Sampled By: Pat Higgins / Karen Batey

Analytical Requests & Method

Lab use only:
Custody Seal
used ☑ yes ☐ no
In tact ☑ yes ☐ no
Temperature °C 3

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Volatiles	Semivolatiles	Pesticides	PCB's	Total Metals	Dissolved Metals	Cyanide			Remarks:	Lab ID 12/17
W	12-15-04	1540		X	SKGWEB1012	various	7		X	X	X	X	X	X	Dis	-27	Refer to Table 7	13
W	12-15-04	1555		X	SKGWFB1012	various	7		X	X	X	X	X	X		-28	(TLL) and Table 8	14
																	(TAC) of the Final Oam Plan for the list of analytes	

000855

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Karen Batey	Fed ex	12-16-04	1500
Fed ex 7908 ... 17 5443	[signature]	12-16-04	0931
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: sample sent via fedex
Standard turnaround

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only			
Earth Tech	4342	204121704	13-05
Client Name	Client #	Workorder #	Due Date

Report to:
Client: Earth Tech
Address: 2373 Progress Dr
Hebron, KY 41048
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

Bill to:
Client:
Address: Bill to:
Contact: Glenn Springs
Phone: Contract
Fax:

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill - 4th Qtr 04
Sampled By: Pat Higgins / Karen Batey

Analytical Requests & Method: Volatiles

Lab use only:
Custody Seal
used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 3°

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Volatiles	Remarks:	Lab ID 12/17
W	12-14-04	1334		X	SKGW06R1012	HCL	3	X	Refer to Table 7	11
W	12-14-04	1433		X	SKGW07R1012	HCL	3	X	(TCL) and	12
W	12-15-04	1138		X	SKGW59 1012	HCL	3	X	Table 8 (TAC)	-6
W	12-15-04	1157		X	SKGW60 1012	HCL	3	X	of the Final	-7
W	12-15-04	1223		X	SKGW62A1012	HCL	2	X	O&M Plan	-8
W	12-15-04	1243		X	SKGW62B1012	HCL	2	X	for the list	-9
W	12-15-04	1437		X	SKGW64 1012	HCL	3	X	of analytes	-10
W	12-15-04	1540		X	SKGWEB1012	HCL	3	X		-13
W	12-15-04	1555		X	SKGWFB1012	HCL	3	X		14
W	12-15-04	1458		X	SKGW65 1012	HCL	3	X		-15
W	12-14-04			X	SKTB1012	HCL	3	X		-16
W	12-16-04	0925		X	SKGW63 1012	HCL	3	X		-1
W	12-16-04	0955		X	SKGW61 1012	HCL	3	X		-2

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Karen Batey	Fed ex	12-16-04	1800
Fed ex 7909 6217 5524	Michelle [illegible]	12-17-04	

Note: sample sent via fed ex standard turnaround

By submitting these samples, you agree to the terms and conditions contained in our [illegible]

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7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only			
Earth Tech	4342	204121704	1-3-05
Client Name	Client #	Workorder #	Due Date

Report to:
Client: Earth Tech
Address: 2373 Progress Dr
Hebron, KY 41048
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

Bill to:
Client:
Address:
Bill to:
Contact:
Phone: Glenn Springs
Fax: Contract

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill - 4th Qtr 04
Sampled By: Pat Higgins / Karen Batey

Analytical Requests & Method: Volatiles

Lab use only:
Custody Seal
used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 3

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Volatiles	Remarks:	Lab ID 12/17
W	12/16/04	1008		x	SKGW61MS1012	HCL	3	X	Refer to Table 7	-3
W	12/16/04	1008		x	SKGW61MSD1012	HCL	3	X	(TCL) and	-4
									Table 8 (TAC)	
									of the Final	
									Oa M Plan	
									for the list	
									of analytes	

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Karen Batey	Fed ex	12-16-04	1800
Fed ex 79066 529	M. [illegible]	12-17-04	09 30
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: Sample sent via fed ex standard turnaround

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AL-06 11/98

DATA VALIDATION REPORT

FOR

SKINNER LANDFILL SITE

EARTH TECH: PROJECT NUMBER 54280

LABORATORY REPORT NUMBER 204122707

PROJECT MANAGER: Ron Rolker

Date: May 8, 2005

Data Validator: Mark Kromis

LIST OF ACRONYMS

BFB	Bromofluorobenzene
CC	Continuing Calibration
CCV	Continuing Calibration Verification
CCB	Continuing Calibration Blanks
CLP	Contract Laboratory Program
CRDL	Contract Required Detection Limit
DFTPP	Decafluorotriphenylphosphine
GC/MS	Gas Chromatograph/Mass Spectrometer
IC	Initial Calibration
ICB	Initial Calibration Blank
IDL	Instrument Detection Limit
ICP	Inductively Coupled Plasma
ICS	Interference Check Sample
ICV	Initial Calibration Verification
ILM	Inorganic Analysis Multi-Media Multi-Concentration
INDAM	Individual A Mixture
INDBM	Individual B Mixture
mg/L	milligrams per liter
MS/MSD	Matrix Spike/Matrix Spike Duplicate
OLC	Organic Analysis Low Concentration
OLM	Organic Analysis Multi-Media Multi-Concentration
%D	Percent Difference
% RSD	Percent Relative Standard Deviation
PB	Preparation Blanks
QC	Quality Control
RF	Response Factor
RPD	Relative Percent Difference
RRF	Relative Response Factor
SDG	Sample Delivery Group
SOW	Statement of Work
µg/L	micrograms per liter
US EPA	United States Environmental Protection Agency
VOC	Volatile Organic Compounds
VTSR	Validated Time of Sample Receipt

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204122707 INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in December 2004, was conducted by Earth Tech using the National Functional Guidelines for Inorganic Data Review, (US EPA, February, 1994), as appropriate. The results were reported by GCAL under Sample Delivery Group (SDG) 204122707.

GCAL #	Sample Description
20412270701	SKSW501012
20412270702	SKSW50MS1012
20412270703	SKSW50MSD1012
20412270704	SKSW50DUP1012
20412270705	SKGW 301012
20412270706	SKSW511012
20412270707	SKSW51FD1012
20412270708	SKGW581012
20412270709	SKGW58FD1012
20412270710	SKGW261012
20412270711	SKGW241012
20412270712	SKSW521012
20412270713	SKSWEB1012
20412270714	SKSW501012 (DISS)
20412270715	SKSW50MS1012 (DISS)
20412270716	SKSW50DUP1012 (DISS)
20412270717	SKGW 301012 (DISS)
20412270718	SKSW511012 (DISS)
20412270719	SKSW51FD1012 (DISS)
20412270720	SKGW581012 (DISS)
20412270721	SKGW58FD1012 (DISS)
20412270722	SKGW261012 (DISS)
20412270723	SKGW241012 (DISS)
20412270724	SKSW521012 (DISS)
20412270725	SKSWEB1012 (DISS)

INTRODUCTION

Analyses of metals were performed according to Contract Laboratory Program (CLP)-Inorganic Analysis Multi-media Multi-concentration ILM04.1 Statement of Work (SOW). Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values maybe used without reservation. The laboratory to denote specific information regarding the analytical results uses various qualifier codes. The data validation process is intended to evaluate the data on a technical basis.

The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the inorganics data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Calibration
   A. Initial Calibration (IC)
   B. Continuing Calibration (CC)
3. Blanks
4. Inductively Coupled Plasma (ICP) Interference Check Sample
5. Laboratory Control Sample (LCS)
6. Duplicate Analysis
7. Spike Sample Analysis

8. ICP Serial Dilution

9. System Performance

10. Documentation

11. Overall Assessment

1. HOLDING TIMES

All samples for inorganics analyses were analyzed within the 180-day holding time for preserved aqueous samples. Mercury analyses were conducted within the 28-day holding time for aqueous samples undergoing CLP protocol. Cyanide analyses were conducted within the 14-day holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. CALIBRATION

A. Initial Calibration

The percent recoveries for the Initial Calibration Verification (ICV) standard were within Quality Control (QC) limits for all constituents.

B. Continuing Calibration

The percent recoveries for the Continuing Calibration Verification (CCV) standard were within QC limits for all constituents.

3. BLANKS

The Initial Calibration Blank (ICB), Continuing Calibration Blanks (CCB) and Preparation Blanks (PB) were analyzed at the appropriate frequencies. No constituents were detected in the ICB, CCB, and PB blanks above the corresponding Contract Required Detection Limit (CRDL) with the exception of Selenium in the ICB and CCB #1 associated with the total fraction. The CCB's that bracketed the samples were #5, #6, and #7 therefore the data validator selected not to qualifier the Selenium results based on the Selenium detected in the ICB and CCB#1.

4. ICP INTERFERENCE CHECK SAMPLE

Results for the ICP analysis of the Interference Check Sample (ICS) solution AB were within 20% of the true value.

5. LABORATORY CONTROL SAMPLES

Recoveries were within the control limit (80-120%) for all constituents.

6. DUPLICATE ANALYSIS

The laboratory used sample SKSW501010 for the duplicate sample. The Relative Percent Difference (RPD) between the sample and duplicate results for the total and dissolved fractions were within the acceptance criteria (<20%) for all target compounds.

7. SPIKE SAMPLE ANALYSIS

The laboratory used sample SKSW501012 and SKSW501012 (dissolved) for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75%-125%) with the exception of Lead (72%) and Thallium (71%) in the total fraction and Arsenic (137%) and Selenium (70%) in the dissolved fraction. As per the National Functional Guidelines: if the percent recovery is greater than 125% qualify detected results for that analyte with "J". If the percent recovery is less than 75% but greater than 30% then qualify detected results for that analyte with "J" and non-detected results with "UJ".

8. ICP SERIAL DILUTION

As noted in the National Functional Guidelines: If the analyte concentration is at least 50 times above the IDL, its serial dilution analysis must then agree within 10% of the original determination after corrected for dilution. The serial dilution is performed to determine whether any significant chemical or physical interference's exist due to matrix effects. The serial dilution percent differences were within the acceptance criteria for all target analytes.

9. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

10. DOCUMENTATION

The following analytes were left out of the original report dated 1/13/05: Aluminum, Calcium, Cobalt, Magnesium, Manganese, Potassium, Sodium, and Vanadium. The data validator contacted the GCAL and they resubmitted the metals package which included the missing analytes.

GCAL placed a "E" qualifier in the "Q" field of the Form IX. The "E" qualifier was not required. the data validator manually made the correction on the Form IX.

11. OVERALL ASSESSMENT

The percent recoveries for Arsenic (total fraction) in the Contract Required Detection Limit (CRDL) standards were 116.6%, 127.6%, 106.9%, and 115.4%.

The percent recoveries for Chromium (dissolved fraction) in the Contract Required Detection Limit (CRDL) standards were 39.4%, 89.8%, and 89.9%.

The percent recoveries for Lead (total fraction) in the Contract Required Detection Limit (CRDL) standards were 99.5%, 123.2%, 81.8%, and 88.2%.

The percent recoveries for Lead (dissolved fraction) in the Contract Required Detection Limit (CRDL) standards were 110%, 55.5%, and 58.3%.

The percent recoveries for Selenium (total fraction) in the Contract Required Detection Limit (CRDL) standards were 112.1%, 85.3%, and 73.4%.

The percent recoveries for Selenium (dissolved fraction) in the Contract Required Detection Limit (CRDL) standards were 121.7%, 90.0%, and 69.0%.

If the CRDL is greater than 120% then detected results greater than the IDL but less than two times the CRDL are qualified as estimated with "J". If the CRDL is below 80% then detected results are qualified as estimated with "J" and the non-detected results were qualified with "UJ".

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204122707
SEMIVOLATILE ORGANICS

Validation of the Gas Chromatograph/Mass Spectrometer (GC/MS) semi-volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in December 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999) as appropriate. The results were reported by GCAL under SDG 204122707.

GCAL #	Sample Description
20412270701	SKSW501012
20412270702	SKSW50MS1012
20412270703	SKSW50MSD1012
20412270704	SKSW50DUP1012
20412270705	SKGW 301012
20412270706	SKSW511012
20412270707	SKSW51FD1012
20412270708	SKGW581012
20412270709	SKGW58FD1012
20412270710	SKGW261012
20412270711	SKGW241012
20412270712	SKSW521012
20412270713	SKSWEB1012

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. The laboratory to denote specific information regarding the analytical results uses various data qualifier codes. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the semivolatile data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Internal Standards Performance
8. Compound Identification
9. Constituent Quantitation and Reported Detection Limits
10. System Performance
11. Documentation
12. Overall Assessment

1. HOLDING TIMES

All samples were initially extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/MS TUNING

The samples were analyzed on a single GC/MS system, identified as MSSV3. Two decafluorotriphenylphosphine (DFTPP) tunes were run representing the shift in which the standards and samples were analyzed. The DFTPP tunes are acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 12/22/04 was analyzed in support of the semivolatile sample analyses. Documentation of the IC was present in the data package, and the Relative Response Factor (RRF), as well as percent % RSD values were accurately reported for all target compounds. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all semi-volatile compounds. The RRF's and the average RRF were within the acceptance criteria specified in the method for all reported analytes with the exception of 4-Chloroaniline. The %RSD's were within the acceptance criteria specified in the method for all target analytes with the exception of Hexachlorocyclopentadiene (38.7%), 2,4-Dinitrophenol (32.6%), and Diethylphthalate (33.6%). The lowest point of the calibration curve was dropped for Hexachlorocyclopentadiene and Diethylphthalate and the %RSD were recalculated. The recalculated %RSD were within the acceptance criteria of less than 30%. Hexachlorocyclopentadiene and Diethylphthalate were not detected in the associated samples therefore data qualification was not required.

As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R). It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds. If the %RSD is greater than 30.0% and the RRF is greater than 0.05, then qualify positive results with "J", and non-detected semivolatile target compounds using professional judgment.

B. Continuing Calibration

One CC dated 1/4/05 was analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRF's for the CC's were within the acceptance criteria with the exception of 4-Chloroaniline. The percent difference (%D) between the average RRF's and the CC Response Factors for the CC dated 1/4/05 were within the acceptance criteria with the exception of 4-Nitrophenol (30.6%), 4-Nitroaniline (31.2%), Pentachlorophenol (26.8%), and

D-n-octylphthalate (36.6%). As per the National Functional Guidelines, if the %D is greater than the acceptance limits then qualify positive results with "J" and non-detected results with "UJ".

4. BLANKS

One laboratory semivolatile method blank and equipment blank were analyzed with this SDG. The results are summarized below.

Method Blank (214659SBLK)

There was no target compounds detected in the blank extracted on 12/27/04.

Equipment Blank (SKSWEB1011)

Bis-(2-ethylhexyl) phthalate (1.23 ppb) and Di-n-butylphthalate (0.779 ppb) were detected in equipment collected on 12/21/04.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported semivolatile system monitoring compounds (SMC) were recovered within acceptable control limits with the exception of Terphenyl-d14. No action was taken because only one SMC was outside of the control limits.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

Sample SKSW501012 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of the 4-Nitorphenol associated with the MS. The %RPD between the MS/MSD are within the acceptance criteria. As per the National Functional Guidelines, no action is taken on MS/MSD data alone.

7. INTERNAL STANDARDS PERFORMANCE

Internal standard areas and retention times were within acceptable limits for the reported semivolatile sample analyses.

8. COMPOUND IDENTIFICATION

All reported semivolatile constituents were correctly identified with supporting chromatograms present in the data package.

9. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for semivolatile constituents.

10. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data submitted for review.

11. DOCUMENTATION

The documentation appeared accurate and in order.

12. OVERALL ASSESSMENT

The data validator suspects that the Bis-(2-ethylhexyl) phthalate and Di-n-butylphthalate detected in the samples are probably a result from laboratory contamination because Bis-(2-ethylhexyl) phthalate and Di-n-butylphthalate are common laboratory contaminants. Bis-(2-ethylhexyl) phthalate and Di-n-butylphthalate were also detected in the associated equipment blank. The data validator therefore qualified the Bis-(2-ethylhexyl) phthalate and Di-n-butylphthalate results in the samples with a "U". The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204122707 VOLATILE ORGANIC

Validation of the GC/MS volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in December 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204122707.

GCAL #	Sample Description
20412270701	SKSW501012
20412270702	SKSW50MS1012
20412270703	SKSW50MSD1012
20412270704	SKSW50DUP1012
20412270705	SKGW 301012
20412270706	SKSW511012
20412270707	SKSW51FD1012
20412270708	SKGW581012
20412270709	SKGW58FD1012
20412270710	SKGW261012
20412270711	SKGW241012
20412270712	SKSW521012
20412270713	SKSWEB1012

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Low Concentration OLC02.0 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. The laboratory to denote specific information regarding the analytical results uses various qualifier codes. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The volatiles data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Laboratory Control Sample
8. Internal Standards Performance
9. Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. System Performance
12. Documentation
13. Overall Assessment

1. HOLDING TIMES

All samples for Volatile Organic Compounds (VOC) analyses were analyzed within the 14-day technical holding time and the 10-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/MS TUNING

The samples were analyzed on one GC/MS system, identified as MSV0. One bromofluorobenzene (BFB) tune was run. The BFB tune is acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 12/28/04 was analyzed on instrument MSV0 in support of the volatile sample analyses reported in the data submissions. Documentation of the IC standards is present in the data package, and RRF's as well as %RSD values were accurately reported. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all volatile compounds. The %RSD's were within the acceptance criteria specified in the method for all target analytes.

The RRF's and the average RRF for the IC dated 12/28/04 were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone. The %RSD's were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone. As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R). It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds.

B. Continuing Calibration

One CC dated 12/28/04 was analyzed on instrument MSV0 in support of the volatile sample analyses reported in the data submissions. The percent difference (%D) between the average RRF's and the CC RF's were within the acceptance criteria for all target analytes. The CC RRF's were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone associated with the CC dated 12/28/04. The Acetone results were previously qualified under section 3A above.

4. BLANKS

One laboratory volatile method blank, storage blank, and Equipment Blank were analyzed with this SDG. The results are summarized below.

MB214800

There were no target analytes detected in the method blank analyzed on 12/28/04.

Storage Blank (VHBLK01)

There were no target analytes detected in the storage blank analyzed on 12/28/04.

Equipment Blank (SKSWEB1011)

Methylene chloride (0.38 ppb), Benzene (0.079 ppb), Toluene (0.64 ppb), and Total Xylenes (0.47 ppb) were detected in the Equipment Blank collected on 12/21/04.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported volatile system monitoring compounds were recovered within acceptable control limits (80%-120%) for all samples.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSW501012 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria.

7. LABORATORY CONTROL SAMPLE

A LCS/LCS duplicate and a LCS were analyzed in conjunction with this SDG. Recoveries were within the control limit for all constituents.

8. INTERNAL STANDARDS PERFORMANCE

Internal Standard (IS) areas and retention times were within acceptable limits for the reported volatile sample analyses.

9. COMPOUND IDENTIFICATION

All reported VOCs were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for VOCs.

11. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

12. DOCUMENTATION

The documentation appeared accurate and in order.

13. OVERALL ASSESSMENT

The data validator suspects that the Acetone detected in sample SKSW511012 is probably a result from laboratory contamination because Acetone is a common laboratory contaminant and Acetone was not detected in the associated field duplicate. The data validator therefore qualified the Acetone result in sample SKSW511012 with an "R". The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY - SAMPLE DELIVERY GROUP 204122707 PESTICIDES

Validation of the Gas Chromatography (GC) pesticides data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in December 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204122707.

GCAL #	Sample Description
20412270701	SKSW501012
20412270702	SKSW50MS1012
20412270703	SKSW50MSD1012
20412270705	SKGW 301012
20412270706	SKSW511012
20412270707	SKSW51FD1012
20412270708	SKGW581012
20412270709	SKGW58FD1012
20412270710	SKGW261012
20412270711	SKGW241012
20412270712	SKSW521012
20412270713	SKSWEB1012
20412270727	SKSW501012 (RE)
20412270728	SKSW50MS1012 (RE)
20412270729	SKSW50MSD1012 (RE)
20412270730	SKGW 301012 (RE)
20412270731	SKSW511012 (RE)
20412270732	SKSW51FD1012 (RE)
20412270733	SKGW581012 (RE)
20412270734	SKGW58FD1012 (RE)
20412270735	SKGW261012 (RE)
20412270736	SKGW241012 (RE)
20412270737	SKSW521012 (RE)
20412270738	SKSWEB1012 (RE)

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.

The data validation process is intended to evaluate the data on a technical basis.

The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the pesticide data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Gas Chromatograph/Electronic Capture Detector (GC/ECD) Instrument Performance Check
3. IC
4. Calibration Verification
5. Blanks
6. Surrogate Spikes
7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)
8. Pesticide Cleanup Checks
9. Target Compound Identification

10. Constituent Quantitation and Reported Detection Limits

11. Documentation

12. Overall Assessment

1. HOLDING TIMES

All samples were originally extracted within the seven-day technical holding time and the five-day VTSR method holding time. Several of the samples were re-extracted (outside of the seven-day technical holding time and the five-day VTSR method holding time) do to low surrogate recoveries associated with the system monitoring compounds. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C. The re-extracted sample with detected results were qualified with "J" while the non-detected results were qualified with "UJ".

2. GC/ECD INSTRUMENT PERFORMANCE CHECK

The Performance Evaluation Mixture (PEM) was analyzed at the correct frequency. Absolute retention times were within limits. The percent resolution between adjacent peaks was within QC limits for the Pesticide Analyte Resolution Check. The percent resolution between adjacent peaks is within QC limits for the Performance Evaluation Mixtures (PEM). The percent breakdown for both 4,4'-DDT and Endrin in each PEM was less than 20.0% for both GC columns. The combined percent breakdown for 4.4'-DDT and Endrin in each PEM was less than 30.0% for both GC columns.

3. INITIAL CALIBRATION

Individual standard mixtures A and B were analyzed at the correct frequencies and concentrations. The percent resolution criterion was met for Individual standard mixtures A and B.

The Percent Relative Standard Deviation (%RSD) of the calibration factors for each of the single component pesticides was less than 20% with the exception of 4,4'-DDT associated with the samples analyzed on 1/5/05. The multi-component target compounds were analyzed separately on both columns at a single concentration level. Retention times were determined from a minimum of three peaks. As per the National Functional Guidelines, up to two single component target pesticides (other than the surrogates) per column may exceed the 20% limit but the %RSD must be less than 30.0%.

4. CALIBRATION VERIFICATION

Absolute retention times were within appropriate time retention windows. The percent difference for each of the pesticides and surrogates in the PEM's were within the acceptance criteria of ±25.0 percent with the exception of 4,4'-DDT (PEM01) dated 1/3/05, and alpha-BHC, beta-BHC, Lindane, Endrin, 4,4'-DDT, Methoxychlor, and TCX (PEM01) dated 1/5/05. The percent difference for each of the pesticides and surrogates in the midpoint concentration of the Individual Standard Mixtures A and B was within the acceptance criteria of ±25.0 percent. The samples were bracketed by two passing PEM's therefore data qualification was not required.

5. BLANKS

Two laboratory method blanks and an Equipment blank were analyzed with this SDG. The results are summarized below.

Method Blank 214753
No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 12/27/04.

Method Blank 217064
No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 1/3/05.

Equipment Blank SKSWEB1012
No constituents were detected above the laboratory-reporting limit in the equipment blank collected on 12/21/04.

6. SURROGATE SPIKES

Decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCX) surrogate spike recoveries were within the acceptance criteria (30% - 150%) for all samples except as follows:

Sample ID	TCX (%)	DCM (%)
SKSW50MS1012	34	**22**
SKGW301012	37	**24**
SKSW511012	**26**	**22**
SKSW51FD1012	**27**	**24**
SKGW581012	**24**	**18**
SKGW261012	**19**	**13**
SKGW241012	37	**24**
MB14753	**29**	**22**
SKGW241012 (RE)	50	**22**

The surrogate recoveries in the re-extracted samples where within the acceptance limits with the exception of sample SKGW241012. As per the National Functional Guidelines, if the surrogate(s) recoveries are between 10 and 30 percent then qualify detected compounds with "J" and non-detected compounds with "UJ".

7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSW501012 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of Aldrin, Dieldrin, Endrin, and Heptachlor in the MS and Lindane in the MS/MSD. All of the %RPD's between the MS/MSD exceeded the acceptance criteria. Sample SKSW501012 was re-extracted and all of the MS/MSD recoveries were within the acceptance criteria with the exception of Lindane. As per the National Functional Guidelines, no action is on MS/MSD data alone.

8. PESTICIDE CLEANUP CHECKS

Recoveries of all pesticides and surrogates were within 80-120% for the lot of Florisil cartridges utilized for pesticide cleanup.

9. TARGET COMPOUND IDENTIFICATION

All reported pesticide data were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for pesticide constituents.

11. DOCUMENTATION

The retention times for the mean RT, RT FROM, and RT TO were incorrectly reported on page 402. The RT FROM, and RT TO on pages 442, 443, 444, and 445 were also incorrectly reported. The laboratory was contacted and the revisions were made to the report pages.

12. OVERALL ASSESSMENT

The samples were re-extracted do to the low surrogate recoveries in the method blank and associated samples. There were sub part per billion detections of pesticides in several of the samples that were extracted within the method and technical holding times but were not detected in the re-extracted samples. Do to the problems associated with the original extraction/analysis of the samples the data validator suggests that the data from the re-extracted/re-analysis be used for making decisions related to the site. The results are acceptable with the validator-added qualifiers.

REFERENCES

US EPA, 1994. *National Functional Guidelines for Inorganic Data Review.*

US EPA, 1999. *National Functional Guidelines for Organic Data Review.*

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC

NELAP CERTIFICATE NUMBER 01955

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 01/13/2005

GCAL Report 204122707

RESUBMITTED

Deliver To	Earth Tech 2373 Progress St Hebron, KY 41048 859-442-2300
Attn	Pat Higgins

Customer Earth Tech

Project Skinner Landfill

CASE NARRATIVE

Client: Earth Tech **Report:** 204122707

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

Selected pages of this report were re-submitted on 05/17/05 and 06/24/05. The pages are stamped corrected if a correction was made. The metals analyte list was revised to the complete TAL list. The revised metals forms are included as an addendum. The retention times for the mean "RT", "RT FROM", and "RT TO" were corrected on page 402. The "RT FROM" and "RT TO" were corrected for column 1 on pages 442, 443, 444, and 445.

SEMI-VOLATILES MASS SPECTROMETRY

In the OLM04.2 analysis, one base neutral surrogate was below QC limits for sample 20412270711 (SKGW241012).

In the OLM04.2 analysis, the recovery for 4-Nitrophenol was slightly above QC limits in the matrix spike.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the OLM04.2 CLP Pest/PCB analysis for prep batch 285484, the batch was re-extracted due to low surrogate recoveries in the blank and samples 20412270702 (SKSW50MS1012), 20412270705 (SKGW301012), 20412270706 (SKSW511012), 20412270707 (SKSW51FD1012), 20412270708 (SKGW581012), 20412270710 (SKGW261012), and 20412270711 (SKGW241012). The re-extraction was performed outside CLP holding time therefore both results will be reported. The MS/MSD exhibited sporadic recovery and RPD failures. This is attributed to a matrix interference.

In the OLM04.2 - CLP Pest/PCB analysis, sample 20412270736 (SKGW241012 (RE)), exhibited low surrogate recoveries in the primary analysis. This sample was re-extracted and analyzed with a similar surrogate recovery. This is attributed to a matrix interference.

In the OLM04.2 - CLP Pest/PCB analysis for prep batch 285996, the MS/MSD exhibited sporadic recovery failures. This is attributed to a matrix interference.

In the initial PEM01 analysis on GCSV3ad the % Difference recoveries were outside limits. This PEM01 is analyzed prior to calibration with IA and IB mixes. All subsequent PEM's pass criteria.

METALS

RESUBMITTED

In the ILM04.1 - CLP Metals analysis for prep batch 285465, the MS recoveries were outside the control limits for Arsenic and Selenium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by a matrix interference. The Sample/Duplicate RPD for Antimony, Arsenic, and Silver is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit. Potassium is flagged as estimated due to the fact that the percent difference between the original sample result and the serial dilution result is greater than 10. A chemical or physical interference is suspected.

In the ILM04.1 - CLP Metals analysis for prep batch 285464, the MS recoveries were outside the control limits for Lead and Thallium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by a matrix interference. The Sample/Duplicate RPD for Antimony is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit. Potassium is flagged as estimated due to the fact that the percent difference between the original sample result and the serial dilution result is greater than 10. A chemical or physical interference is suspected.

MISCELLANEOUS

Sample 20412270711 (SKGW241012 Container ID 20412270711-7 (ONE LITER (AMBER GLASS)) had to be preserved at the laboratory with NaOH at Lab. This container was used to analyze CLP - OLM04.2 Pest/PCB, CLP - OLM04.2 Semi-Volatiles, CLP -ILM04.1- Water - ICP, CLP ILM04.1 Mercury, and CLP OLC02.1 Volatiles, Water.

RESUBMITTED

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reporduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Curtis Ekker

CURTIS EKKER
DATA VALIDATION MANAGER
GCAL REPORT 204122707

THIS REPORT CONTAINS 919 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20412270701	SKSW501012	Water	12/21/2004 12:34	12/27/2004 10:45
20412270702	SKSW50MS1012	Water	12/21/2004 12:47	12/27/2004 10:45
20412270703	SKSW50MSD1012	Water	12/21/2004 13:00	12/27/2004 10:45
20412270704	SKSW50DUP1012	Water	12/21/2004 13:00	12/27/2004 10:45
20412270705	SKGW301012	Water	12/20/2004 12:41	12/27/2004 10:45
20412270706	SKSW511012	Water	12/21/2004 13:30	12/27/2004 10:45
20412270707	SKSW51FD1012	Water	12/20/2004 13:45	12/27/2004 10:45
20412270708	SKGW581012	Water	12/20/2004 11:25	12/27/2004 10:45
20412270709	SKGW58FD1012	Water	12/20/2004 11:42	12/27/2004 10:45
20412270710	SKGW261012	Water	12/21/2004 09:50	12/27/2004 10:45
20412270711	SKGW241012	Water	12/21/2004 10:37	12/27/2004 10:45
20412270712	SKSW521012	Water	12/21/2004 13:55	12/27/2004 10:45
20412270713	SKSWEB1012	Water	12/21/2004 14:25	12/27/2004 10:45
20412270714	SKSW501012 (DISS)	Water	12/21/2004 12:34	12/27/2004 10:45
20412270715	SKSW50MS1012 (DISS)	Water	12/21/2004 12:47	12/27/2004 10:45
20412270716	SKSW50DUP1012 (DISS)	Water	12/21/2004 13:00	12/27/2004 10:45
20412270717	SKGW301012 (DISS)	Water	12/20/2004 12:41	12/27/2004 10:45
20412270718	SKSW511012 (DISS)	Water	12/21/2004 13:30	12/27/2004 10:45
20412270719	SKSW51FD1012 (DISS)	Water	12/21/2004 13:45	12/27/2004 10:45
20412270720	SKGW581012 (DISS)	Water	12/20/2004 11:25	12/27/2004 10:45
20412270721	SKGW58FD1012 (DISS)	Water	12/20/2004 11:42	12/27/2004 10:45
20412270722	SKGW261012 (DISS)	Water	12/21/2004 09:50	12/27/2004 10:45
20412270723	SKGW241012 (DISS)	Water	12/21/2004 10:37	12/27/2004 10:45
20412270724	SKSW521012 (DISS)	Water	12/21/2004 13:55	12/27/2004 10:45
20412270725	SKSWEB1012 (DISS)	Water	12/21/2004 14:25	12/27/2004 10:45
20412270726	VHBLK01	Water		12/27/2004 10:45
20412270727	SKS501012 (RE)	Water	12/21/2004 12:34	12/27/2004 10:45
20412270728	SKS50MS1012 (RE)	Water	12/21/2004 12:47	12/27/2004 10:45
20412270729	SKS50MSD1012 (RE)	Water	12/21/2004 13:00	12/27/2004 10:45
20412270730	SKGW301012 (RE)	Water	12/20/2004 12:41	12/27/2004 10:45
20412270731	SKSW511012 (RE)	Water	12/21/2004 13:30	12/27/2004 10:45
20412270732	SKSW51FD1012 (RE)	Water	12/21/2004 13:45	12/27/2004 10:45
20412270733	SKGW581012	Water	12/20/2004 11:25	12/27/2004 10:45
20412270734	SKGW58FD1012 (RE)	Water	12/20/2004 11:42	12/27/2004 10:45
20412270735	SKGW261012 (RE)	Water	12/21/2004 09:50	12/27/2004 10:45
20412270736	SKGW241012 (RE)	Water	12/21/2004 10:37	12/27/2004 10:45
20412270737	SKSW521012 (RE)	Water	12/21/2004 13:55	12/27/2004 10:45
20412270738	SKSWEB1012 (RE)	Water	12/21/2004 14:25	12/27/2004 10:45

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL Contract:

Lab Code: Case No.: 204122707 SAS No.: SDG No.: 204122707

Lab File ID (Standard): T8753 Date Analyzed: 12/28/04

Instrument ID: MSV0 Time Analyzed: 1019

GC Column: DB-624-30M ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1(DFB) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	361270	6.43	213607	8.57	140305	10.14
	UPPER LIMIT	505778	6.76	299050	8.90	196427	10.47
	LOWER LIMIT	216762	6.10	128164	8.24	84183	9.81
	EPA SAMPLE NO.						
01	LCS285504	371444	6.44	219729	8.57	151413	10.14
02	LCSD285504	376590	6.44	221788	8.57	151822	10.14
03	MB285504	361929	6.44	212347	8.57	134042	10.15
04	SKSW501012	354388	6.44	211325	8.58	126474	10.15
05	SKGW301012	354536	6.44	209987	8.58	130943	10.14
06	SKSW511012	350328	6.44	206046	8.58	125720	10.15
07	SKSW5FD1012	331997	6.44	204344	8.58	121653	10.14
08	SKGW581012	338324	6.44	196988	8.58	122050	10.15
09	SKSW501012MS	333041	6.44	196404	8.58	133422	10.14
10	SKSW501012MS	345494	6.44	206736	8.58	136372	10.14
11	SKGW58FD1012	346616	6.45	203489	8.58	122826	10.14
12	SKGW261012	339162	6.44	197385	8.58	117135	10.15
13	SKGW241012	339747	6.44	201227	8.58	117580	10.15
14	SKSW521012	327103	6.44	191983	8.58	111108	10.15
15	SKSWEB1012	331933	6.44	195975	8.58	114173	10.15
16	VHBLK01	320084	6.44	185857	8.58	106788	10.15
17							
18							
19							
20							
21							
22							

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-DICHLOROBENZENE-D4

AREA UPPER LIMIT = + 40% of internal standard area
AREA LOWER LIMIT = - 40% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW501012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412270701

Level: (low/med) Lab File ID: 2041228/T8761

% Moisture: not dec. Date Collected: 12/21/04 Time: 1234

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/27/04

Instrument ID: MSV0 Date Analyzed: 12/28/04 Time: 1332

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285504

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0 R
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	0.53	J	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

5/12 1-05 MSV

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW501012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412270701

Level: (low/med) Lab File ID: 2041228/T8761

% Moisture: not dec. Date Collected: 12/21/04 Time: 1234

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/27/04

Instrument ID: MSV0 Date Analyzed: 12/28/04 Time: 1332

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285504

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSW501012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: Water Lab Sample ID: 20412270701

Sample wt/vol: Units: Lab File ID: 2041228/T8761

Level: (low/med) Date Collected: 12/21/04 Time: 1234

% Moisture: not dec. Date Received: 12/27/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/28/04 Time: 1332

Instrument ID: MSV0 Dilution Factor: 1 Analyst: MEF

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	4016-11-9	Oxirane, (ethoxymethyl)-	2.32	.573	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW301012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412270705

Level: (low/med) Lab File ID: 2041228/T8762

% Moisture: not dec. Date Collected: 12/20/04 Time: 1241

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/27/04

Instrument ID: MSV0 Date Analyzed: 12/28/04 Time: 1355

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285504

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0 R
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	5.1		0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

FORM I VOA

5/12/05 MK

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW301012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412270705

Level (low/med) Lab File ID: 2041228/T8762

% Moisture: not dec. Date Collected: 12/20/04 Time: 1241

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/27/04

Instrument ID: MSV0 Date Analyzed: 12/28/04 Time: 1355

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285504

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW301012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: Water Lab Sample ID: 20412270705

Sample wt/vol: Units: Lab File ID: 2041228/T8762

Level: (low/med) Date Collected: 12/20/04 Time: 1241

% Moisture: not dec. Date Received: 12/27/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/28/04 Time: 1355

Instrument ID: MSV0 Dilution Factor: 1 Analyst: MEF

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	1823-52-5	2-Oxetanone, 4,4-dimethyl-	2.322	.476	

GCAL, Inc.

Data file : /var/chem/msv0.i/2041228.s.b/t8762.d
Lab Smp Id: 20412270705 Client Smp ID: SKGW301012
Inj Date : 28-DEC-2004 13:55
Operator : MEF Inst ID: msv0.i
Smp Info : 20412270705*SKGW301012
Misc Info : MSV-5639-*1*RJO
Comment :
Method : /var/chem/msv0.i/2041228.s.b/clp2.1w0.m
Meth Date : 28-Dec-2004 11:11 mef Quant Type: ISTD
Cal Date : 28-DEC-2004 10:19 Cal File: t8753.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	25.00000	ng unit correction factor
Vo	25.00000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
7 Carbon Disulfide	76	3.981	3.974	(0.618)	396384	5.13208	5.1
* 19 1,4-Difluorobenzene	114	6.440	6.433	(1.000)	354536	5.00000	
* 32 Chlorobenzene-d5	82	8.575	8.568	(1.000)	209987	5.00000	
$ 39 Bromofluorobenzene	174	9.382	9.375	(1.457)	94894	4.77381	4.8
* 42 1,4-DICHLOROBENZENE-D4	152	10.142	10.135	(1.000)	130943	5.00000	

Data File: /var/chem/msv0.i/2041228.s.b/t8762.d

Date : 28-DEC-2004 13:55

Client ID: SKGW301012

Instrument: msv0.i

Sample Info: 20412270705*SKGW301012

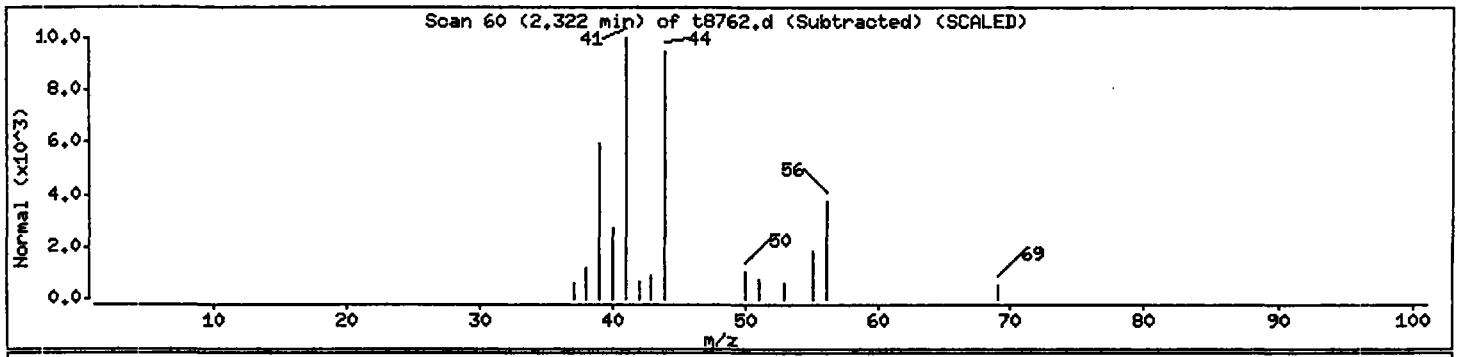
Purge Volume: 25.0

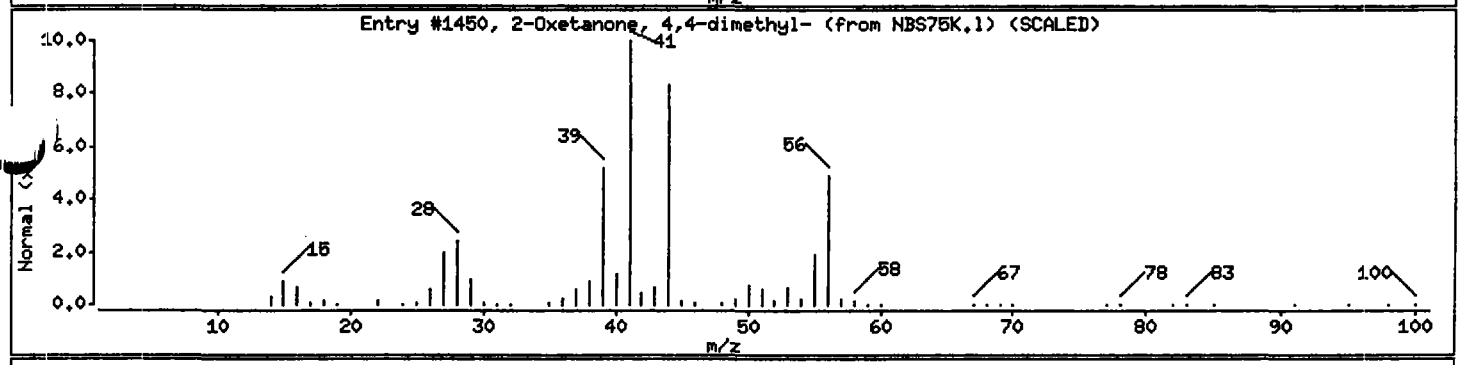
Operator: MEF

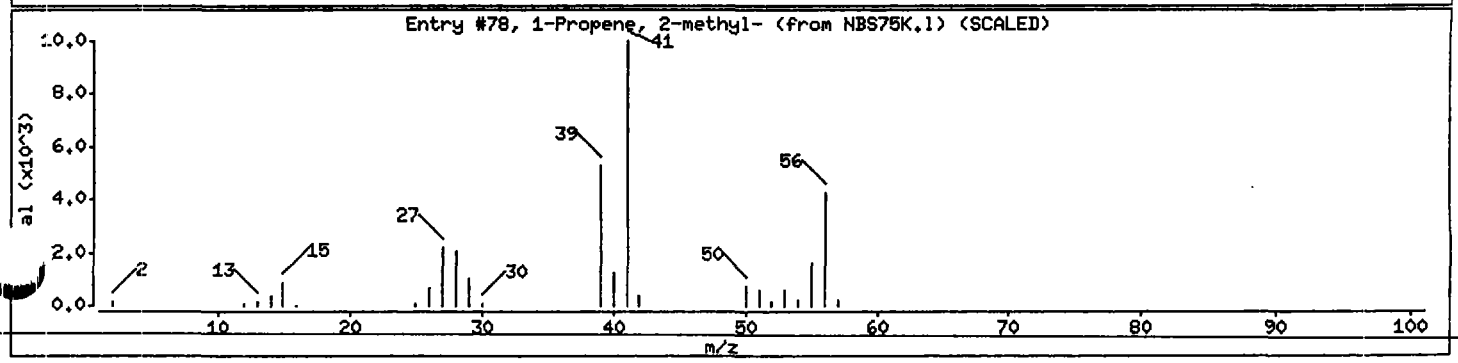
Column phase: DB-624-30M

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Oxetanone, 4,4-dimethyl-	1823-52-5	NBS75K.1	1450	43	C5H8O2	100
Unknown			0	0		0
1-Propene, 2-methyl-	115-11-7	NBS75K.1	78	27	C4H8	56







1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW511012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412270706

Level: (low/med) Lab File ID: 2041228/T8763

% Moisture: not dec. Date Collected: 12/21/04 Time: 1330

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/27/04

Instrument ID: MSV0 Date Analyzed: 12/28/04 Time: 1418

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285504

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethane	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5 ~~10~~	J	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

JR

FORM I VOA

5/12/05

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW511012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412270706

Level: (low/med) Lab File ID: 2041228/T8763

% Moisture: not dec. Date Collected: 12/21/04 Time: 1330

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/27/04

Instrument ID: MSV0 Date Analyzed: 12/28/04 Time: 1418

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285504

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSW511012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: Water Lab Sample ID: 20412270706

Sample wt/vol: Units: Lab File ID: 2041228/T8763

Level: (low/med) Date Collected: 12/21/04 Time: 1330

% Moisture: not dec. Date Received: 12/27/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/28/04 Time: 1418

Instrument ID: MSV0 Dilution Factor: 1 Analyst: MEF

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		Unknown	4.071	1.34	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW51FD1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412270707

Level: (low/med) Lab File ID: 2041228/T8764

% Moisture: not dec. Date Collected: 12/20/04 Time: 1345

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/27/04

Instrument ID: MSV0 Date Analyzed: 12/28/04 Time: 1440

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285504

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0 R
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

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FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW51FD1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412270707

Level: (low/med) Lab File ID: 2041228/T8764

% Moisture: not dec. Date Collected: 12/20/04 Time: 1345

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/27/04

Instrument ID: MSV0 Date Analyzed: 12/28/04 Time: 1440

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285504

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSW51FD1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: Water Lab Sample ID: 20412270707

Sample wt/vol: Units: Lab File ID:

Level: (low/med) Date Collected: 12/20/04 Time: 1345

% Moisture: not dec. Date Received: 12/27/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/28/04 Time: 1440

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

GCAL, Inc.

Data file : /var/chem/msv0.i/2041228.s.b/t8764.d
Lab Smp Id: 20412270707 Client Smp ID: SKSW5FD1012
Inj Date : 28-DEC-2004 14:40
Operator : MEF Inst ID: msv0.i
Smp Info : 20412270707*SKSW5FD1012
Misc Info : MSV-5639~*1*RJO
Comment :
Method : /var/chem/msv0.i/2041228.s.b/clp2.1w0.m
Meth Date : 28-Dec-2004 11:11 mef Quant Type: ISTD
Cal Date : 28-DEC-2004 10:19 Cal File: t8753.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Vo) * CpndVariable

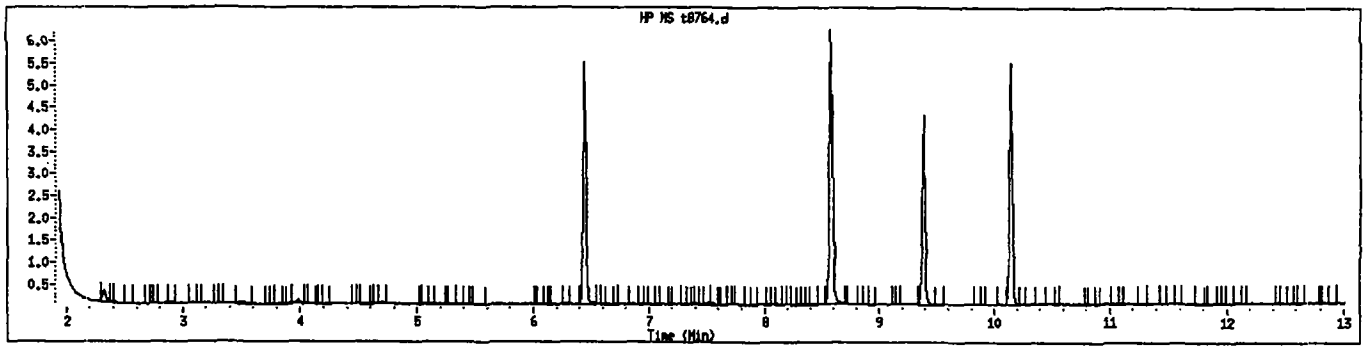
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	25.00000	ng unit correction factor
Vo	25.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 19 1,4-Difluorobenzene	114	6.441	6.433	(1.000)	331397	5.00000	
* 32 Chlorobenzene-d5	82	8.576	8.568	(1.000)	204344	5.00000	
$ 39 Bromofluorobenzene	174	9.383	9.375	(1.457)	89166	4.79018	4.8
* 42 1,4-DICHLOROBENZENE-D4	152	10.143	10.135	(1.000)	121653	5.00000	

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20412270707	SampleType	: SAMPLE
Injection Date	: 28-DEC-2004 14:40	Instrument	: msv0.i
Operator	: MEF		
Sample Info	: 20412270707*SKSW5FD1012		
Misc Info	: MSV~5639~*1*RJO		
Method	: /var/chem/msv0.i/2041228.s.b/clp2.1w0.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: all



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW581012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412270708

Level: (low/med) Lab File ID: 2041228/T8765

% Moisture: not dec. Date Collected: 12/20/04 Time: 1125

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/27/04

Instrument ID: MSV0 Date Analyzed: 12/28/04 Time: 1503

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285504

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0	
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0	
78-93-3	2-Butanone	5.0	U	0.010	5.0	
591-78-6	2-Hexanone	5.0	U	0.010	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0	
67-64-1	Acetone	5.0	U	0.010	5.0	R
71-43-2	Benzene	0.061	J	0.010	1.0	
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0	
75-25-2	Bromoform	1.0	U	0.010	1.0	
74-83-9	Bromomethane	1.0	U	0.010	1.0	
75-15-0	Carbon disulfide	1.0	U	0.010	1.0	
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0	
108-90-7	Chlorobenzene	1.0	U	0.010	1.0	
75-00-3	Chloroethane	1.0	U	0.010	1.0	
67-66-3	Chloroform	1.0	U	0.010	1.0	
74-87-3	Chloromethane	1.0	U	0.010	1.0	
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0	
100-41-4	Ethylbenzene	1.0	U	0.010	1.0	

5/12/05 PK

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
SKGW581012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412270708

Level: (low/med) Lab File ID: 2041228/T8765

% Moisture: not dec. Date Collected: 12/20/04 Time: 1125

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/27/04

Instrument ID: MSV0 Date Analyzed: 12/28/04 Time: 1503

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285504

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW581012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: Water Lab Sample ID: 20412270708

Sample wt/vol: Units: Lab File ID: 2041228/T8765

Level: (low/med) Date Collected: 12/20/04 Time: 1125

% Moisture: not dec. Date Received: 12/27/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/28/04 Time: 1503

Instrument ID: MSV0 Dilution Factor: 1 Analyst: MEF

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 2

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		Unknown	2.332	.67	
2.		Unknown	8.83	.234	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW58FD1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412270709

Level: (low/med) Lab File ID: 2041228/T8769

% Moisture: not dec. Date Collected: 12/20/04 Time: 1142

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/27/04

Instrument ID: MSV0 Date Analyzed: 12/28/04 Time: 1634

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285504

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0 R
71-43-2	Benzene	0.12	J	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	0.26	J	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

FORM I VOA

5/12/05
MR

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW58FD1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412270709

Level: (low/med) Lab File ID: 2041228/T8769

% Moisture: not dec. Date Collected: 12/20/04 Time: 1142

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/27/04

Instrument ID: MSV0 Date Analyzed: 12/28/04 Time: 1634

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285504

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	0.16	J	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW58FD1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: Water Lab Sample ID: 20412270709

Sample wt/vol: Units: Lab File ID: 2041228/T8769

Level: (low/med) Date Collected: 12/20/04 Time: 1142

% Moisture: not dec. Date Received: 12/27/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/28/04 Time: 1634

Instrument ID: MSV0 Dilution Factor: 1 Analyst: MEF

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 3

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		Unknown	2.196	1.37	
2.		Unknown	2.348	1.8	
3.	78-78-4	Butane, 2-methyl-	2.923	.941	

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Data file : /var/chem/msv0.i/2041228.s.b/t8769.d
Lab Smp Id: 20412270709 Client Smp ID: SKGW58FD1012
Inj Date : 28-DEC-2004 16:34
Operator : MEF Inst ID: msv0.i
Smp Info : 20412270709*SKGW58FD1012
Misc Info : MSV~5639~*1*RJO
Comment :
Method : /var/chem/msv0.i/2041228.s.b/clp2.1w0.m
Meth Date : 28-Dec-2004 11:11 mef Quant Type: ISTD
Cal Date : 28-DEC-2004 10:19 Cal File: t8753.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	25.00000	ng unit correction factor
Vo	25.00000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
7 Carbon Disulfide	76	3.994	3.974	(0.620	19582	0.25933	0.26(a)
17 Benzene	78	6.142	6.129	(0.716)	15542	0.11850	0.12(a)
* 19 1,4-Difluorobenzene	114	6.446	6.433	(1.000)	346616	5.00000	
25 Toluene +	91	7.557	7.550	(0.881)	20382	0.15797	0.16(a)
* 32 Chlorobenzene-d5	82	8.581	8.568	(1.000)	203489	5.00000	
$ 39 Bromofluorobenzene	174	9.381	9.375	(1.455)	89988	4.63045	4.6
* 42 1,4-DICHLOROBENZENE-D4	152	10.141	10.135	(1.000)	122826	5.00000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/msv0.i/2041228.s.b/t8769.d

Date : 28-DEC-2004 16:34

Client ID: SKGW58FD1012

Instrument: msv0.i

Sample Info: 20412270709*SKGW58FD1012

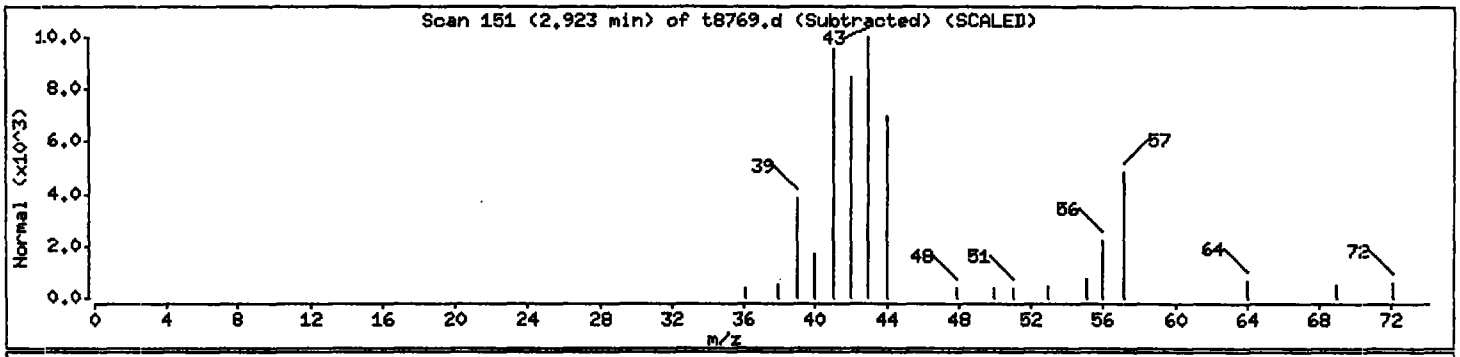
Purge Volume: 25.0

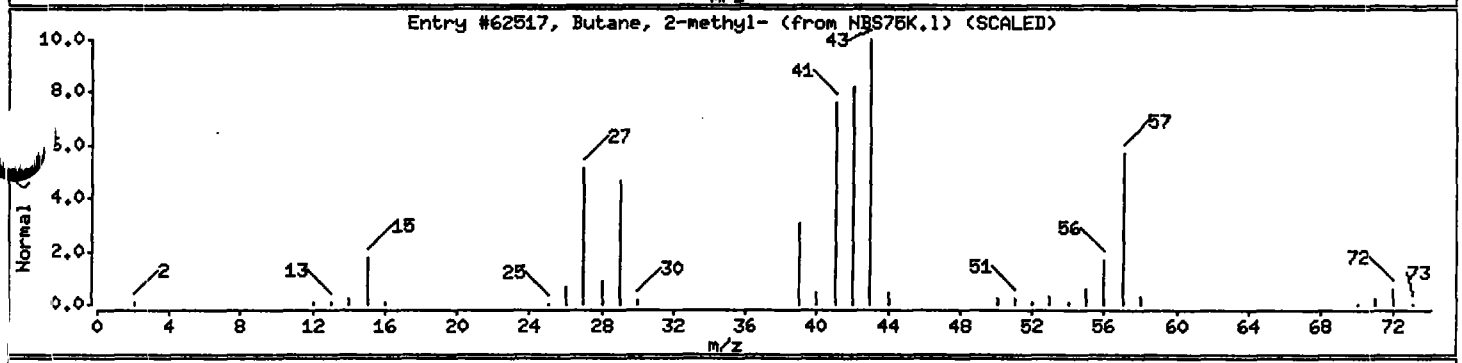
Operator: MEF

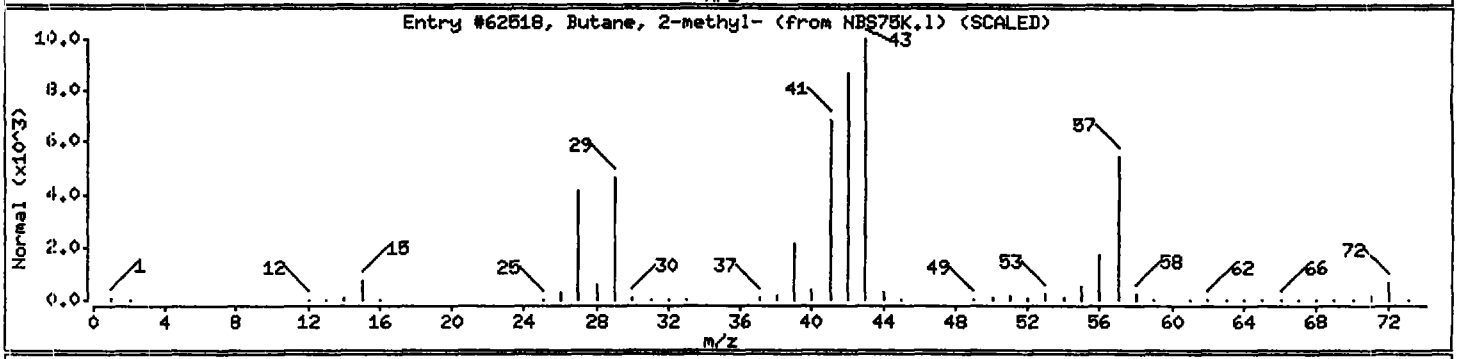
Column phase: DB-624-30M

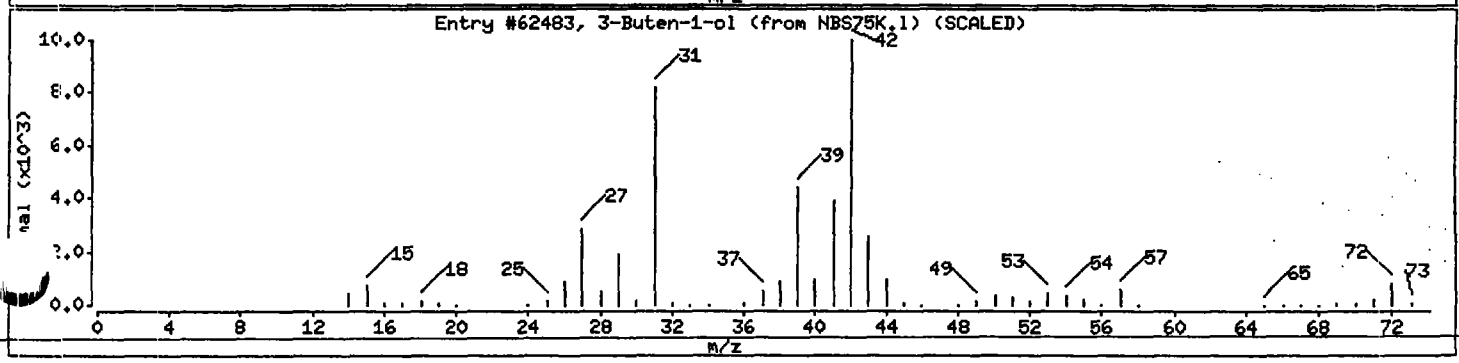
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butane, 2-methyl-	78-78-4	NBS75K.l	62517	53	C5H12	72
Butane, 2-methyl-	78-78-4	NBS75K.l	62518	53	C5H12	72
3-Buten-1-ol	627-27-0	NBS75K.l	62483	25	C4H8O	72









1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW261012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412270710

Level: (low/med) Lab File ID: 2041228/T8770

% Moisture: not dec. Date Collected: 12/21/04 Time: 0950

GC Column: DB-624-30M ID .53 (mm) Date Received: 12/27/04

Instrument ID: MSV0 Date Analyzed: 12/28/04 Time: 1657

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285504

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0 R
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	0.31	J	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

FORM I VOA

5/12/05

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW261012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412270710

Level: (low/med) Lab File ID: 2041228/T8770

% Moisture: not dec. Date Collected: 12/21/04 Time: 0950

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/27/04

Instrument ID: MSV0 Date Analyzed: 12/28/04 Time: 1657

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285504

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW261012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: Water Lab Sample ID: 20412270710

Sample wt/vol: Units: Lab File ID:

Level: (low/med) Date Collected: 12/21/04 Time: 0950

% Moisture: not dec. Date Received: 12/27/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/28/04 Time: 1657

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 0

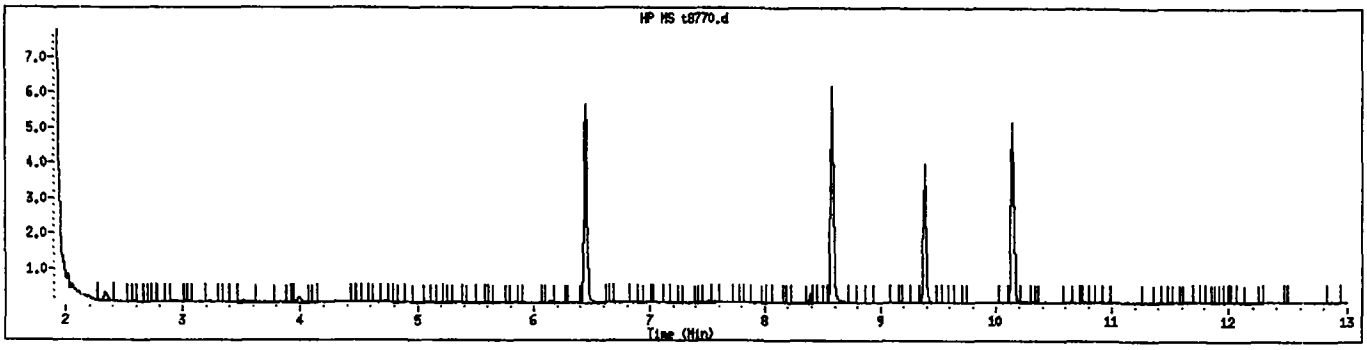
CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

Data file : /var/chem/msv0.i/2041228.s.b/t8770.d
Report Date: 12/28/2004 16:53

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20412270710	SampleType	: SAMPLE
Injection Date	: 28-DEC-2004 16:57	Instrument	: msv0.i
Operator	: MEF		
Sample Info	: 20412270710*SKGW261012		
Misc Info	: MSV~5639~*1*RJO		
Method	: /var/chem/msv0.i/2041228.s.b/clp2.1w0.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: all



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW241012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412270711

Level: (low/med) Lab File ID: 2041228/T8771

% Moisture: not dec. Date Collected: 12/21/04 Time: 1037

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/27/04

Instrument ID: MSV0 Date Analyzed: 12/28/04 Time: 1719

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285504

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	0.084	J	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.3		0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

R

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW241012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412270711

Level: (low/med) Lab File ID: 2041228/T8771

% Moisture: not dec. Date Collected: 12/21/04 Time: 1037

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/27/04

Instrument ID: MSV0 Date Analyzed: 12/28/04 Time: 1719

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285504

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	0.062	J	0.010	1.0

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW241012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: Water Lab Sample ID: 20412270711

Sample wt/vol: Units: Lab File ID: 2041228/T8771

Level: (low/med) Date Collected: 12/21/04 Time: 1037

% Moisture: not dec. Date Received: 12/27/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/28/04 Time: 1719

Instrument ID: MSV0 Dilution Factor: 1 Analyst: MEF

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 2

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		Unknown	2.2	1.26	
2.		Unknown	2.359	1.24	

Data File: /var/chem/msv0.i/2041228.s.b/t8771.d

Date : 28-DEC-2004 17:19

Client ID: SKGW241012

Instrument: msv0.i

Sample Info: 20412270711MSKGW241012

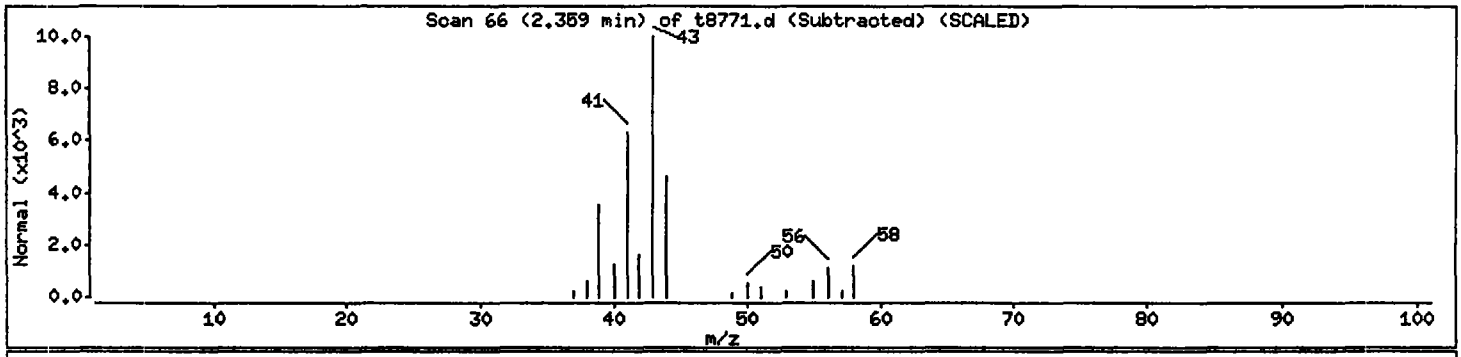
Purge Volume: 25.0

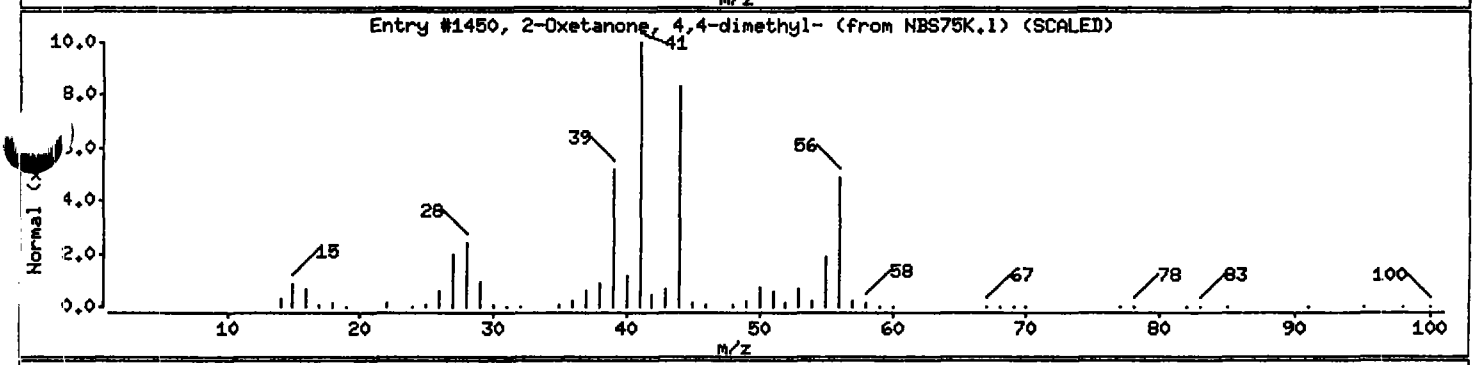
Operator: MEF

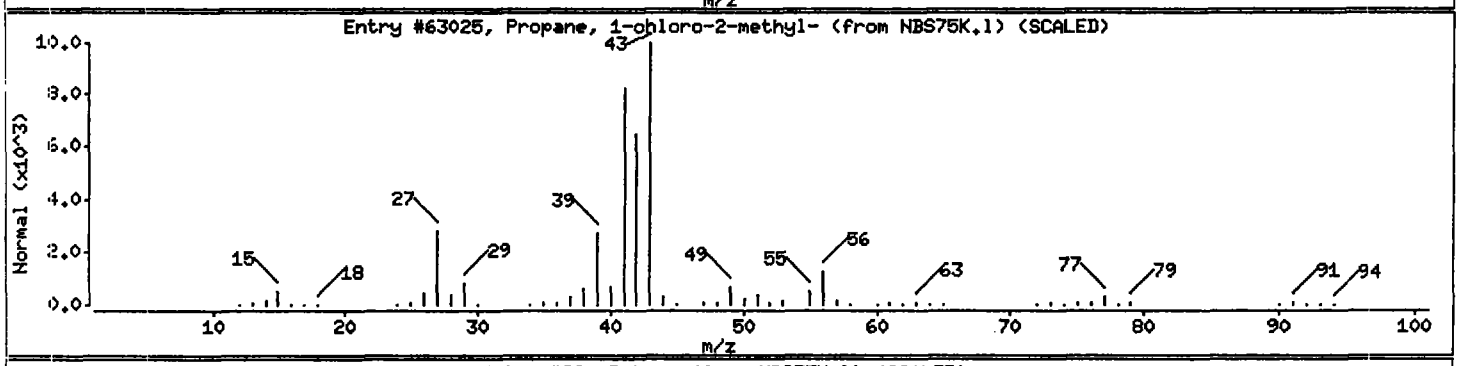
Column phase: DB-624-30M

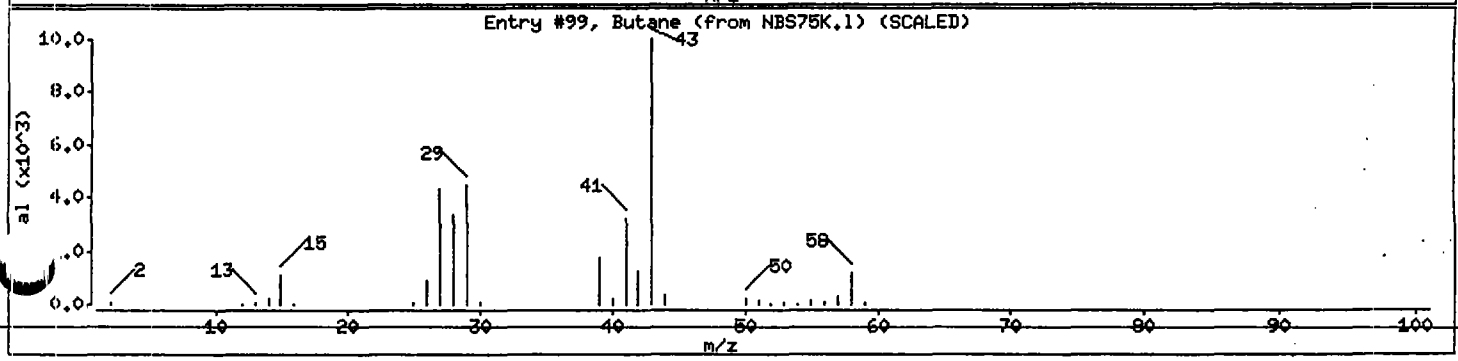
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Oxetanone, 4,4-dimethyl-	1823-52-5	NBS75K.l	1450	50	C5H8O2	100
Propane, 1-chloro-2-methyl-	513-36-0	NBS75K.l	63025	12	C4H9Cl	92
Butane	106-97-8	NBS75K.l	99	9	C4H10	58









1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW521012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412270712

Level: (low/med) Lab File ID: 2041228/T8772

% Moisture: not dec. Date Collected: 12/21/04 Time: 1355

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/27/04

Instrument ID: MSV0 Date Analyzed: 12/28/04 Time: 1742

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285504

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

R

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW521012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412270712

Level: (low/med) Lab File ID: 2041228/T8772

% Moisture: not dec. Date Collected: 12/21/04 Time: 1355

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/27/04

Instrument ID: MSV0 Date Analyzed: 12/28/04 Time: 1742

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285504

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSW521012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: Water Lab Sample ID: 20412270712

Sample wt/vol: Units: Lab File ID: 2041228/T8772

Level: (low/med) Date Collected: 12/21/04 Time: 1355

% Moisture: not dec. Date Received: 12/27/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 12/28/04 Time: 1742

Instrument ID: MSV0 Dilution Factor: 1 Analyst: MEF

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		Unknown	4.098	2.14	

Data File: /var/chem/msv0.i/2041228.s.b/t8772.d

Date : 28-DEC-2004 17:42

Client ID: SKSW521012

Instrument: msv0.i

Sample Info: 20412270712WSKSW521012

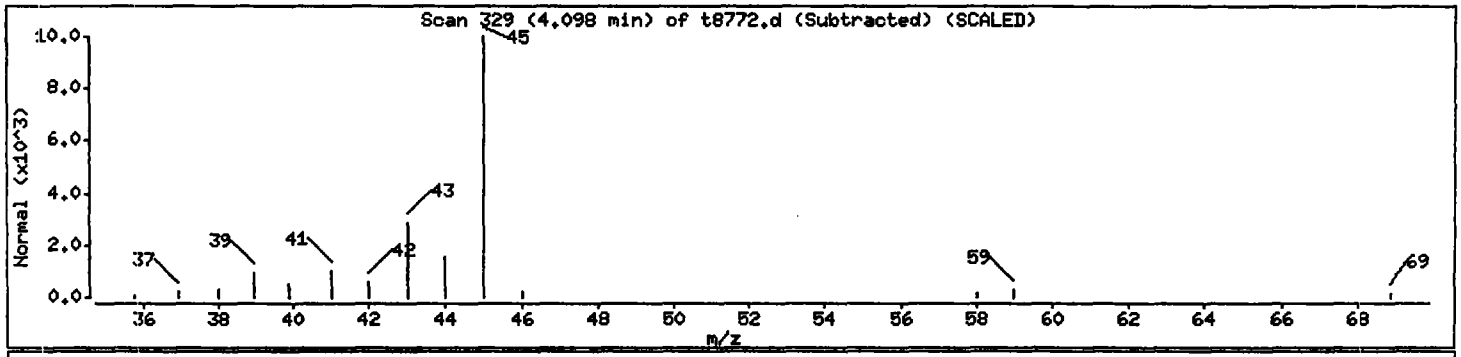
Purge Volume: 25.0

Operator: MEF

Column phase: DB-624-30M

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWEB1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412270713

Level: (low/med) Lab File ID: 2041228/T8773

% Moisture: not dec. Date Collected: 12/21/04 Time: 1425

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/27/04

Instrument ID: MSV0 Date Analyzed: 12/28/04 Time: 1804

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285504

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	0.079	J	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

R

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWEB1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412270713

Level: (low/med) Lab File ID: 2041228/T8773

% Moisture: not dec. Date Collected: 12/21/04 Time: 1425

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/27/04

Instrument ID: MSV0 Date Analyzed: 12/28/04 Time: 1804

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285504

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

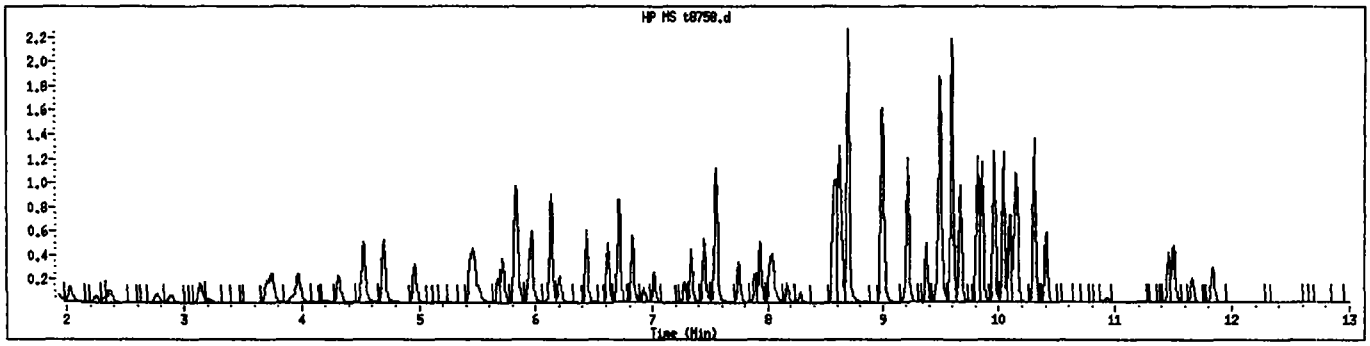
CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	0.38	J	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	0.64	J	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	0.47	J	0.010	1.0

FORM I VOA

Data file : /var/chem/msv0.i/2041228.s.b/t8758.d
Report Date: 12/28/2004 12:09

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 214802	SampleType	: LCS
Injection Date	: 28-DEC-2004 12:13	Instrument	: msv0.i
Operator	: MEF		
Sample Info	: 214802*LCSD FOR HBN 285504		
Misc Info	: MSV~5639~*1*RJO		
Method	: /var/chem/msv0.i/2041228.s.b/clp2.1w0.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: all



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW50MS1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20412270702

Level: (low/med)

Lab File ID: 2041228/T8768MS

% Moisture: not dec.

Date Collected: 12/21/04 Time: 1247

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 12/27/04

Instrument ID: MSV0

Date Analyzed: 12/28/04 Time: 1526

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 285504

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	5.0		0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	5.3		0.010	1.0
79-00-5	1,1,2-Trichloroethane	5.2		0.010	1.0
75-34-3	1,1-Dichloroethane	5.2		0.010	1.0
75-35-4	1,1-Dichloroethene	5.0		0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	5.0		0.010	1.0
106-93-4	1,2-Dibromoethane	5.0		0.010	1.0
95-50-1	1,2-Dichlorobenzene	4.8		0.010	1.0
107-06-2	1,2-Dichloroethane	5.1		0.010	1.0
540-59-0	1,2-Dichloroethene	10		0.010	1.0
78-87-5	1,2-Dichloropropane	5.1		0.010	1.0
541-73-1	1,3-Dichlorobenzene	5.0		0.010	1.0
106-46-7	1,4-Dichlorobenzene	4.9		0.010	1.0
78-93-3	2-Butanone	25		0.010	5.0
591-78-6	2-Hexanone	26		0.010	5.0
108-10-1	4-Methyl-2-pentanone	27		0.010	5.0
67-64-1	Acetone	30		0.010	5.0
71-43-2	Benzene	5.1		0.010	1.0
75-27-4	Bromodichloromethane	5.3		0.010	1.0
75-25-2	Bromoform	5.1		0.010	1.0
74-83-9	Bromomethane	3.9		0.010	1.0
75-15-0	Carbon disulfide	5.2		0.010	1.0
56-23-5	Carbon tetrachloride	5.0		0.010	1.0
108-90-7	Chlorobenzene	5.0		0.010	1.0
75-00-3	Chloroethane	5.6		0.010	1.0
67-66-3	Chloroform	5.2		0.010	1.0
74-87-3	Chloromethane	5.5		0.010	1.0
124-48-1	Dibromochloromethane	5.3		0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	5.1		0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	5.1		0.010	1.0
100-41-4	Ethylbenzene	5.0		0.010	1.0

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW50MS1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412270702

Level: (low/med) Lab File ID: 2041228/T8766MS

% Moisture: not dec. Date Collected: 12/21/04 Time: 1247

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/27/04

Instrument ID: MSV0 Date Analyzed: 12/28/04 Time: 1526

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285504

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	4.6		0.010	2.0
100-42-5	Styrene	5.0		0.010	1.0
127-18-4	Tetrachloroethene	4.9		0.010	1.0
108-88-3	Toluene	5.1		0.010	1.0
79-01-6	Trichloroethene	4.9		0.010	1.0
75-01-4	Vinyl chloride	4.9		0.010	1.0
1330-20-7	Xylene (total)	15		0.010	1.0

GCAL, Inc.

Data file : /var/chem/msv0.i/2041228.s.b/t8766ms.d
Lab Smp Id: 20412270702 Client Smp ID: SKSW50MS1012
Inj Date : 28-DEC-2004 15:26
Operator : MEF Inst ID: msv0.i
Smp Info : 20412270702*SKSW50MS1012
Misc Info : MSV~5639~*1*RJO
Comment :
Method : /var/chem/msv0.i/2041228.s.b/clp2.1w0.m
Meth Date : 28-Dec-2004 11:11 mef Quant Type: ISTD
Cal Date : 28-DEC-2004 10:19 Cal File: t8753.d
Als bottle: 17 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Vo) * CpndVariable

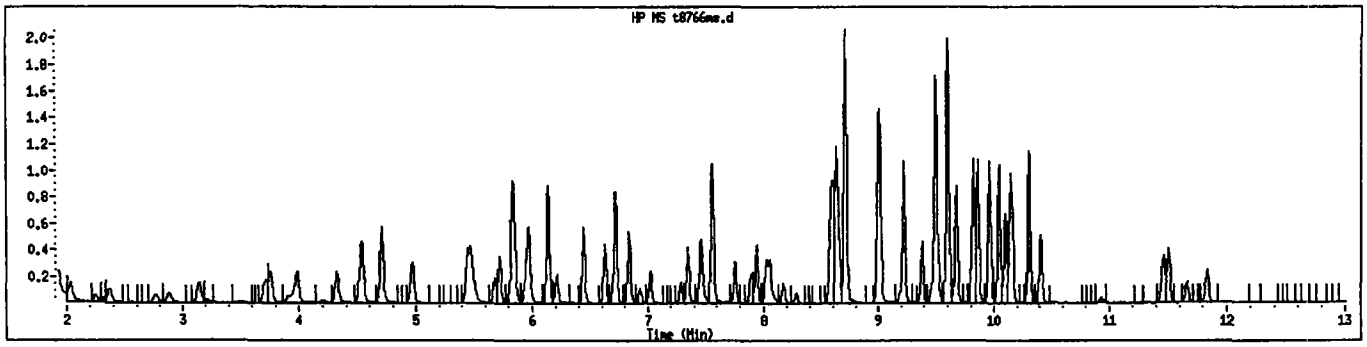
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	25.00000	ng unit correction factor
Vo	25.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Chloromethane ++	50	2.243	2.249	(0.348)	90611	5.53839	5.5
2 Vinyl Chloride +	62	2.369	2.368	(0.368)	144523	4.93196	4.9
3 Bromomethane	94	2.766	2.758	(0.429)	56355	3.92782	3.9
4 Chloroethane	64	2.885	2.884	(0.448)	80897	5.60021	5.6
5 1,1-Dichloroethene +	96	3.757	3.749	(0.583)	78047	4.99228	5.0
6 Acetone	43	3.909	3.908	(0.607)	82450	29.6438	30
7 Carbon Disulfide	76	3.982	3.974	(0.618)	373676	5.15033	5.2
8 Methylene Chloride	49	4.319	4.318	(0.671)	188868	4.56548	4.6
9 trans-1,2-Dichloroethene	61	4.537	4.530	(0.704)	236665	4.93322	4.9
10 1,1-Dichloroethane ++	63	4.967	4.959	(0.771)	319790	5.19464	5.2
11 cis-1,2-Dichloroethene	61	5.476	5.468	(0.850)	268508	5.05630	5.0
M 100 Total 1-2 Dichloroethene	100				505173	9.99577	10
12 2-Butanone	43	5.502	5.501	(0.854)	176240	24.9833	25
13 Bromochloromethane	128	5.681	5.673	(0.882)	37910	5.21191	5.2
14 Chloroform +	83	5.721	5.719	(0.888)	232668	5.19545	5.2

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20412270702	SampleType	: MS
Injection Date	: 28-DEC-2004 15:26	Instrument	: msv0.i
Operator	: MEF		
Sample Info	: 20412270702*SKSW50MS1012		
Misc Info	: MSV~5639~*1*RJO		
Method	: /var/chem/msv0.i/2041228.s.b/clp2.1w0.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: all



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW50MSD1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412270703

Level: (low/med) Lab File ID: 2041228/T8767MSD

% Moisture: not dec. Date Collected: 12/21/04 Time: 1300

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/27/04

Instrument ID: MSV0 Date Analyzed: 12/28/04 Time: 1549

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285504

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	4.6		0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	5.2		0.010	1.0
79-00-5	1,1,2-Trichloroethane	5.1		0.010	1.0
75-34-3	1,1-Dichloroethane	4.9		0.010	1.0
75-35-4	1,1-Dichloroethene	4.8		0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	5.2		0.010	1.0
106-93-4	1,2-Dibromoethane	4.9		0.010	1.0
95-50-1	1,2-Dichlorobenzene	4.9		0.010	1.0
107-06-2	1,2-Dichloroethane	5.0		0.010	1.0
540-59-0	1,2-Dichloroethene	9.6		0.010	1.0
78-87-5	1,2-Dichloropropane	4.9		0.010	1.0
541-73-1	1,3-Dichlorobenzene	5.0		0.010	1.0
106-46-7	1,4-Dichlorobenzene	4.9		0.010	1.0
78-93-3	2-Butanone	24		0.010	5.0
591-78-6	2-Hexanone	26		0.010	5.0
108-10-1	4-Methyl-2-pentanone	27		0.010	5.0
67-64-1	Acetone	30		0.010	5.0
71-43-2	Benzene	4.8		0.010	1.0
75-27-4	Bromodichloromethane	4.9		0.010	1.0
75-25-2	Bromoform	5.2		0.010	1.0
74-83-9	Bromomethane	4.0		0.010	1.0
75-15-0	Carbon disulfide	4.9		0.010	1.0
56-23-5	Carbon tetrachloride	4.6		0.010	1.0
108-90-7	Chlorobenzene	4.7		0.010	1.0
75-00-3	Chloroethane	5.3		0.010	1.0
67-66-3	Chloroform	5.0		0.010	1.0
74-87-3	Chloromethane	5.8		0.010	1.0
124-48-1	Dibromochloromethane	5.1		0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	5.1		0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	4.9		0.010	1.0
100-41-4	Ethylbenzene	4.7		0.010	1.0

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW50MSD1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20412270703

Level: (low/med) Lab File ID: 2041228/T8767MSD

% Moisture: not dec. Date Collected: 12/21/04 Time: 1300

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/27/04

Instrument ID: MSV0 Date Analyzed: 12/28/04 Time: 1549

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285504

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	4.7		0.010	2.0
100-42-5	Styrene	4.8		0.010	1.0
127-18-4	Tetrachloroethene	4.6		0.010	1.0
108-88-3	Toluene	4.8		0.010	1.0
79-01-6	Trichloroethene	4.6		0.010	1.0
75-01-4	Vinyl chloride	4.5		0.010	1.0
1330-20-7	Xylene (total)	14		0.010	1.0

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv0.i/2041228.s.b/t8767msd.d
Lab Smp Id: 20412270703 Client Smp ID: SKSW50MSD1012
Inj Date : 28-DEC-2004 15:49
Operator : MEF Inst ID: msv0.i
Smp Info : 20412270703*SKSW50MSD1012
Misc Info : MSV-5639-*1*RJO
Comment :
Method : /var/chem/msv0.i/2041228.s.b/clp2.1w0.m
Meth Date : 28-Dec-2004 11:11 mef Quant Type: ISTD
Cal Date : 28-DEC-2004 10:19 Cal File: t8753.d
Als bottle: 18 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	25.00000	ng unit correction factor
Vo	25.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Chloromethane ++	50	2.243	2.249	(0.348)	98111	5.78067	5.8
2 Vinyl Chloride +	62	2.369	2.368	(0.368)	137049	4.50835	4.5
3 Bromomethane	94	2.765	2.758	(0.429)	59635	4.00575	4.0
4 Chloroethane	64	2.878	2.884	(0.447)	79993	5.33804	5.3
5 1,1-Dichloroethene +	96	3.757	3.749	(0.583)	78413	4.83484	4.8
6 Acetone	43	3.909	3.908	(0.607)	85490	29.6281	30
7 Carbon Disulfide	76	3.982	3.974	(0.618)	366574	4.87034	4.9
8 Methylene Chloride	49	4.319	4.318	(0.671)	202430	4.71695	4.7
9 trans-1,2-Dichloroethene	61	4.537	4.530	(0.704)	234651	4.71493	4.7
10 1,1-Dichloroethane ++	63	4.966	4.959	(0.771)	312913	4.89972	4.9
11 cis-1,2-Dichloroethene	61	5.475	5.468	(0.851)	267713	4.85963	4.8
M 100 Total 1-2 Dichloroethene	100				502364	9.58190	9.6
12 2-Butanone	43	5.502	5.501	(0.854	178223	24.3537	24
13 Bromochloromethane	128	5.680	5.673	(0.882)	37930	5.02662	5.0
14 Chloroform +	83	5.720	5.715	(0.888)	230183	4.95470	5.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSW501012

Contract:

Lab File ID: 2050104/B5241

Lab Sample ID: 20412270701

Date Collected: 12/21/04 Time: 1234

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1213

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0

R

5/12/-6

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSW501012

Contract:

Lab File ID: 2050104/B5241

Lab Sample ID: 20412270701

Date Collected: 12/21/04 Time: 1234

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1213

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
117-81-7	bis(2-ethylhexyl)phthalate	10.0	U	0.010	10.0	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0	
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	UJ
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	UJ
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	UJ
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	UJ
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSW501012

Contract:

Lab File ID: 2050104/B5241

Lab Sample ID: 20412270701

Date Collected: 12/21/04 Time: 1234

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1213

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204122707
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: RTX-5MS-30 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSW501012
Contract:
Lab File ID:
Lab Sample ID: 20412270701
Date Collected: 12/21/04 Time: 1234
Date Received: 12/27/04
Date Extracted:
Date Analyzed: 01/04/05 Time: 1213
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found: 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW301012

Contract:

Lab File ID: 2050104/B5244

Lab Sample ID: 20412270705

Date Collected: 12/20/04 Time: 1241

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1311

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0

R

5/11/05

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW301012

Contract:

Lab File ID: 2050104/B5244

Lab Sample ID: 20412270705

Date Collected: 12/20/04 Time: 1241

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1311

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
117-81-7	bis(2-ethylhexyl)phthalate	10.0	U	0.010	10.0	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0	
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	UJ
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	UJ
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	UJ
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	UJ
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	

5/12/05

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW301012

Contract:

Lab File ID: 2050104/B5244

Lab Sample ID: 20412270705

Date Collected: 12/20/04 Time: 1241

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1311

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204122707
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW301012
Contract:
Lab File ID: 2050104/B5244
Lab Sample ID: 20412270705
Date Collected: 12/20/04 Time: 1241
Date Received: 12/27/04
Date Extracted:
Date Analyzed: 01/04/05 Time: 1311
Dilution Factor: 1 Analyst: JAR3
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 4

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	105-60-2	Caprolactam	2.905	27.5	
2.		Unknown	3.767	2.21	
3.	57-10-3	Hexadecanoic acid	4.968	3.97	
4.	57-11-4	Octadecanoic acid	5.462	2.26	

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSW511012

Contract:

Lab File ID: 2050104/B5245

Lab Sample ID: 20412270706

Date Collected: 12/21/04 Time: 1330

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1331

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0

R

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKSW511012

Contract:

Lab File ID: 2050104/B5245

Lab Sample ID: 20412270706

Date Collected: 12/21/04 Time: 1330

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1331

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
117-81-7	bis(2-ethylhexyl)phthalate	10.0	U	0.010	10.0	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0	
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	UJ
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	UJ
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	UJ
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	UJ
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSW511012

Contract:

Lab File ID: 2050104/B5245

Lab Sample ID: 20412270706

Date Collected: 12/21/04 Time: 1330

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1331

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204122707
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: RTX-5MS-30 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSW511012
Contract:
Lab File ID:
Lab Sample ID: 20412270706
Date Collected: 12/21/04 Time: 1330
Date Received: 12/27/04
Date Extracted:
Date Analyzed: 01/04/05 Time: 1331
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found: 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSW51FD1012

Contract:

Lab File ID: 2050104/B5246

Lab Sample ID: 20412270707

Date Collected: 12/20/04 Time: 1345

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1350

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0

R

5/16/05 mr

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSW51FD1012

Contract:

Lab File ID: 2050104/B5246

Lab Sample ID: 20412270707

Date Collected: 12/20/04 Time: 1345

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1350

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
117-81-7	bis(2-ethylhexyl)phthalate	0.821	J	0.010	10.0	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0	
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	US
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	US
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	US
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	US
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	

s/m

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSW51FD1012

Contract:

Lab File ID: 2050104/B5246

Lab Sample ID: 20412270707

Date Collected: 12/20/04 Time: 1345

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1350

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204122707
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: RTX-5MS-30 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSW51FD1012
Contract:
Lab File ID:
Lab Sample ID: 20412270707
Date Collected: 12/20/04 Time: 1345
Date Received: 12/27/04
Date Extracted:
Date Analyzed: 01/04/05 Time: 1350
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW581012

Contract:

Lab File ID: 2050104/B5247

Lab Sample ID: 20412270708

Date Collected: 12/20/04 Time: 1125

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1410

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0

R

5/12/05 MK

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW581012

Contract:

Lab File ID: 2050104/B5247

Lab Sample ID: 20412270708

Date Collected: 12/20/04 Time: 1125

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1410

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
117-81-7	bis(2-ethylhexyl)phthalate	10.0	U	0.010	10.0	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0	
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	US
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	US
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	US
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	US
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW581012

Contract:

Lab File ID: 2050104/B5247

Lab Sample ID: 20412270708

Date Collected: 12/20/04 Time: 1125

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1410

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204122707
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW581012
Contract:
Lab File ID: 2050104/B5247
Lab Sample ID: 20412270708
Date Collected: 12/20/04 Time: 1125
Date Received: 12/27/04
Date Extracted:
Date Analyzed: 01/04/05 Time: 1410
Dilution Factor: 1 Analyst: JAR3
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	105-60-2	Caprolactam	2.896	4.83	

Data File: /var/chem/MSSV3.i/2050104.s.b/b5247.d

Date : 04-JAN-2005 14:10

Client ID: 20412270708

Instrument: MSSV3.i

Sample Info: 20412270708M4342M

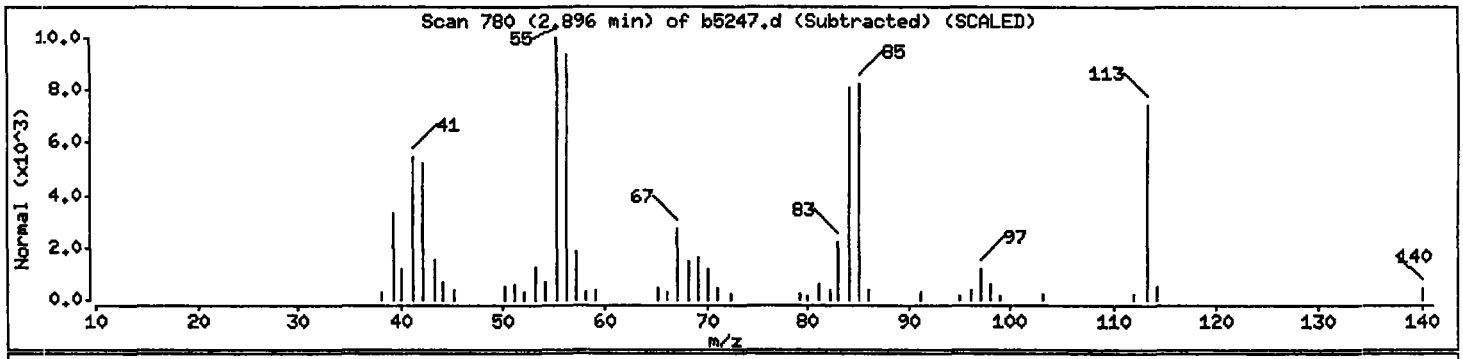
Volume Injected (uL): 2.0

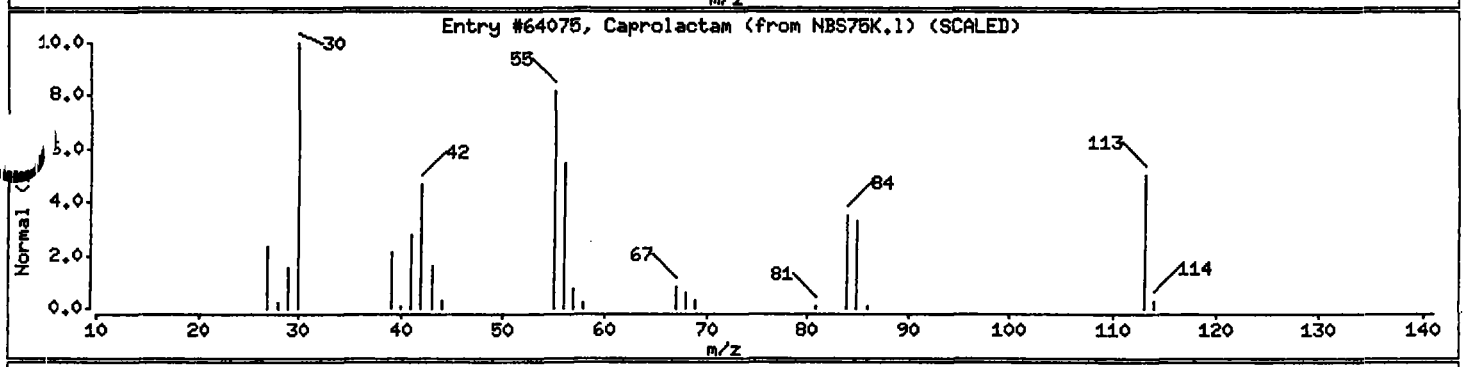
Operator: jar3

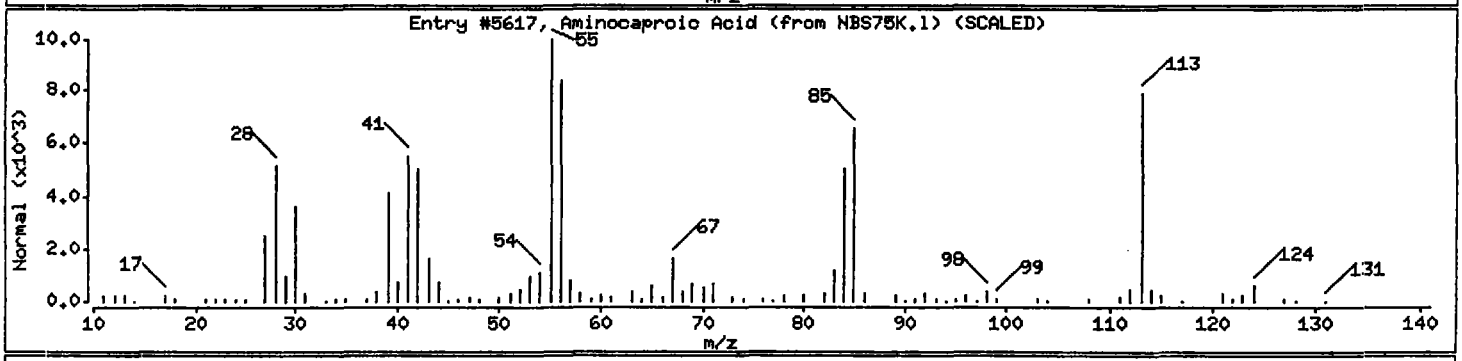
Column phase: DB-5MS-30M

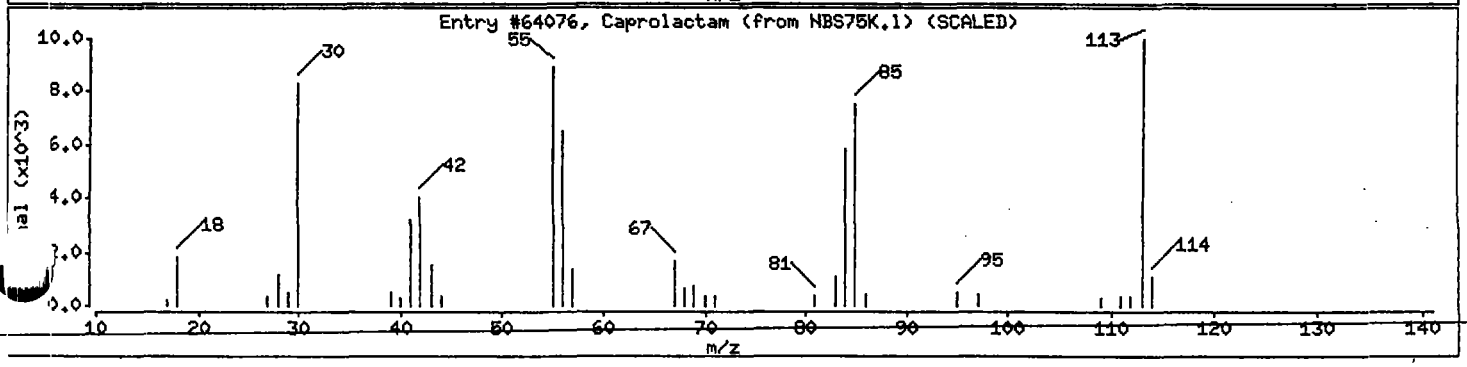
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Caprolactam	105-60-2	NBS75K.1	64075	91	C6H11NO	113
Aminocaproic Acid	60-32-2	NBS75K.1	5617	78	C6H13NO2	131
Caprolactam	105-60-2	NBS75K.1	64076	64	C6H11NO	113









1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW58FD1012

Contract:

Lab File ID: 2050104/B5248

Lab Sample ID: 20412270709

Date Collected: 12/20/04 Time: 1142

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1430

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0

R

5/12

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW58FD1012

Contract:

Lab File ID: 2050104/B5248

Lab Sample ID: 20412270709

Date Collected: 12/20/04 Time: 1142

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1430

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
117-81-7	bis(2-ethylhexyl)phthalate	10.0 ~~2.36~~	J	0.010	10.0	UL
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0	
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	UJ
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	UJ
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	UJ
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	UJ
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	

5/10/05 mn

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW58FD1012

Contract:

Lab File ID: 2050104/B5248

Lab Sample ID: 20412270709

Date Collected: 12/20/04 Time: 1142

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1430

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: Units:

Level: (low/med)

% Moisture: not dec.

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW58FD1012

Contract:

Lab File ID: 2050104/B5248

Lab Sample ID: 20412270709

Date Collected: 12/20/04 Time: 1142

Date Received: 12/27/04

Date Extracted:

Date Analyzed: 01/04/05 Time: 1430

Dilution Factor: 1 Analyst: JAR3

Prep Method:

Analytical Method: SW-846 8270C

Instrument ID: MSSV3

Number TICs Found : 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	105-60-2	Caprolactam	2.896	3.41	

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2050104.s.b/b5248.d
Lab Smp Id: 20412270709 Client Smp ID: 20412270709
Inj Date : 04-JAN-2005 14:30
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 20412270709*4342*
Misc Info : 20412270709*MSSV-2464-*122707*1000-1.0
Comment :
Method : /var/chem/MSSV3.i/2050104.s.b/CLP4.2_02.m.m
Meth Date : 04-Jan-2005 12:37 rlw Quant Type: ISTD
Cal Date : 04-JAN-2005 11:33 Cal File: b5239.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	CONCENTRATIONS FINAL (ug/L)
$ 1 2-Fluorophenol	112	0.932	0.929	(0.506)	184879	128.931	64.5
$ 3 Phenol-d5	99	1.645	1.642	(0.894)	257313	110.040	55.0
$ 6 2-Chlorophenol-d4	132	1.701	1.698	(0.924)	115685	112.288	56.1
* 8 1,4-Dichlorobenzene-d4	115	1.840	1.840	(1.000)	28269	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	1.937	1.937	(1.052)	54956	71.4993	35.7
$ 16 Nitrobenzene-d5	82	2.198	2.198	(0.837)	207505	88.7460	44.4
* 23 Naphthalene-d8	136	2.627	2.629	(1.000)	97631	40.0000	
27 Caprolactam	113	2.896	2.905	(1.103)	4780	14.3097	7.15
$ 33 2-Fluorobiphenyl	172	3.291	3.291	(0.892)	160652	89.5029	44.8
* 41 Acenaphthene-d10	164	3.691	3.694	(1.000)	51930	40.0000	
$ 53 2,4,6-Tribromophenol	332	4.179	4.179	(1.132)	38023	134.423	67.2
* 58 Phenanthrene-d10	188	4.596	4.599	(1.000)	78560	40.0000	
$ 65 Terphenyl-d14	244	5.604	5.607	(0.882)	76781	42.3782	21.2
* 69 Chrysene-d12	240	6.356	6.365	(1.000)	90033	40.0000	

Data File: /var/chem/MSSV3.i/2050104.s.b/b5248.d

Date : 04-JAN-2005 14:30

Client ID: 20412270709

Instrument: MSSV3.i

Sample Info: 20412270709M4342M

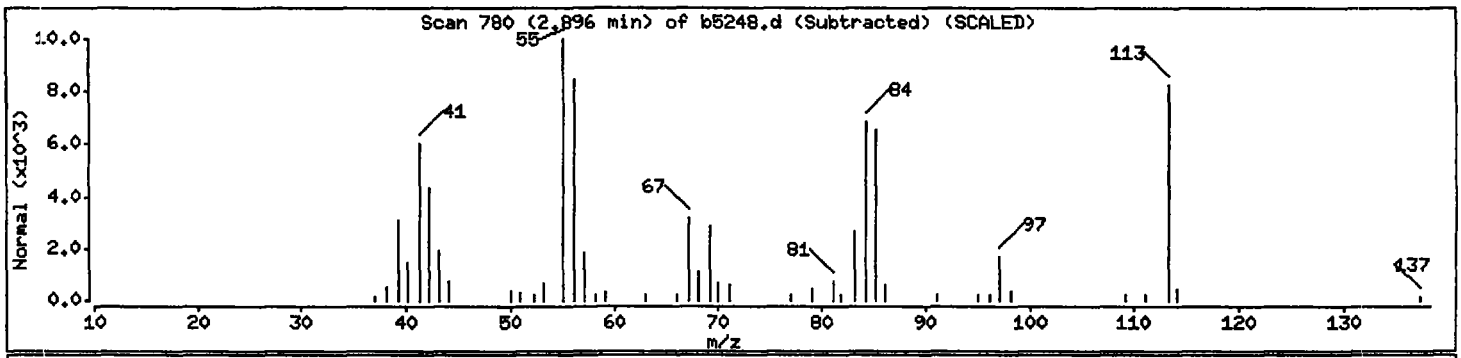
Volume Injected (uL): 2.0

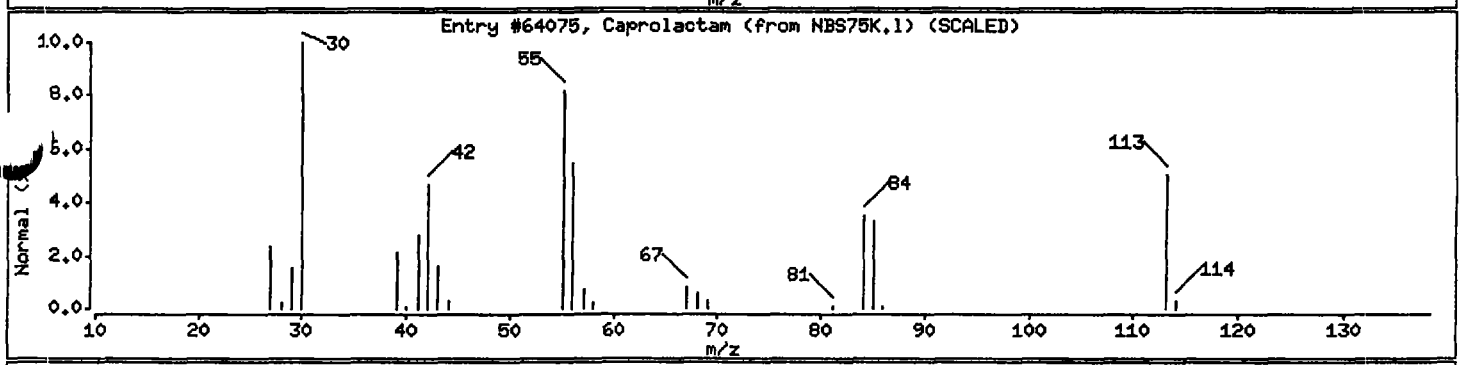
Operator: jar3

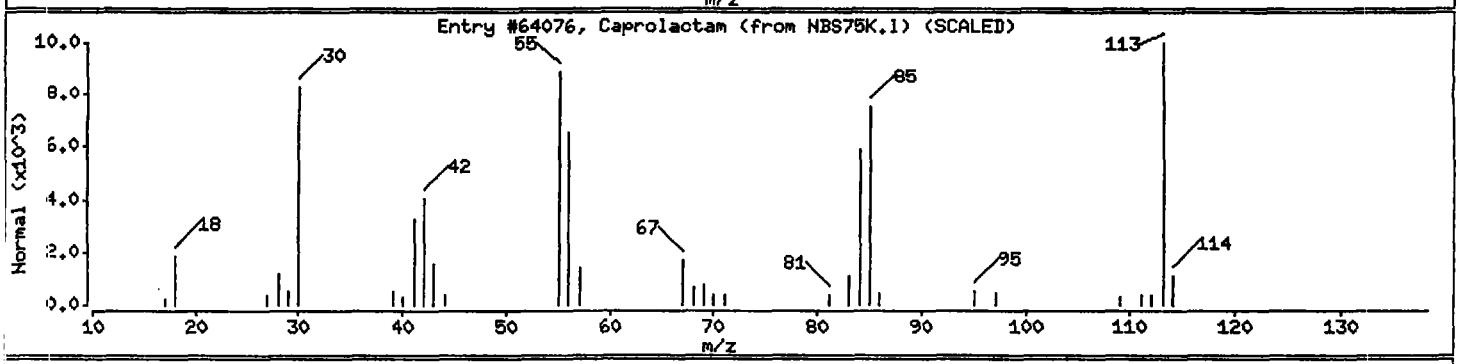
Column phase: DB-5MS-30M

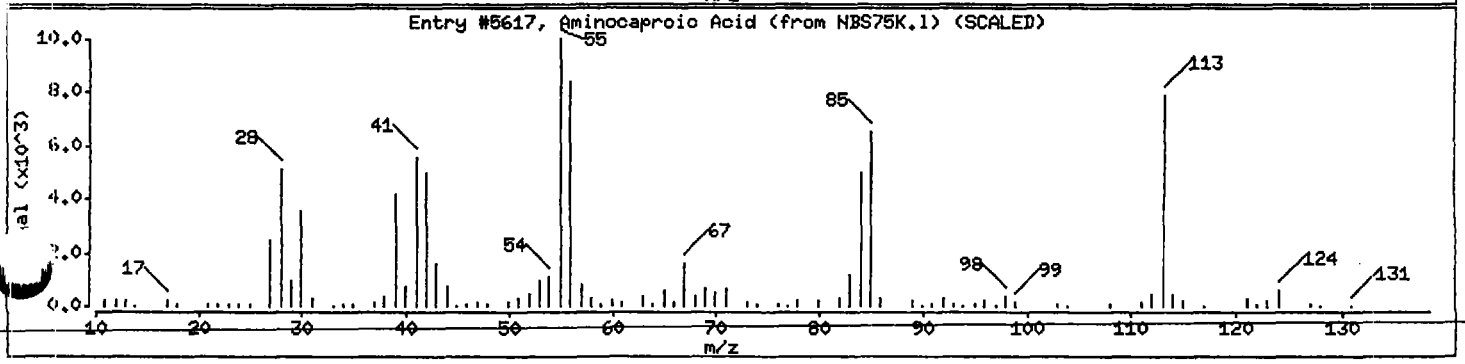
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Caprolactam	105-60-2	NBS75K.l	64075	74	C6H11NO	113
Caprolactam	105-60-2	NBS75K.l	64076	59	C6H11NO	113
Aminocaproic Acid	60-32-2	NBS75K.l	5617	59	C6H13NO2	131









1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW261012

Contract:

Lab File ID: 2050104/B5249

Lab Sample ID: 20412270710

Date Collected: 12/21/04 Time: 0950

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1449

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0

R

5/12/05 mr

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW261012

Contract:

Lab File ID: 2050104/B5249

Lab Sample ID: 20412270710

Date Collected: 12/21/04 Time: 0950

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1449

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
117-81-7	bis(2-ethylhexyl)phthalate	10.0 ~~0.052~~	J	0.010	10.0	U
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0 ~~0.831~~	J	0.010	10.0	U
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	UJ
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	UJ
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	UJ
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	UJ
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	

5/12/05 MM

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW261012

Contract:

Lab File ID: 2050104/B5249

Lab Sample ID: 20412270710

Date Collected: 12/21/04 Time: 0950

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1449

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204122707
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW261012
Contract:
Lab File ID: 2050104/B5249
Lab Sample ID: 20412270710
Date Collected: 12/21/04 Time: 0950
Date Received: 12/27/04
Date Extracted:
Date Analyzed: 01/04/05 Time: 1449
Dilution Factor: 1 Analyst: JAR3
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	105-60-2	Caprolactam	3.103	3430	

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2050104.s.b/b5249.d
Lab Smp Id: 20412270710 Client Smp ID: 20412270710
Inj Date : 04-JAN-2005 14:49
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 20412270710*4342*
Misc Info : 20412270710*MSSV~2464~*122707*1000-1.0
Comment :
Method : /var/chem/MSSV3.i/2050104.s.b/CLP4.2_02.m.m
Meth Date : 04-Jan-2005 12:37 rlw Quant Type: ISTD
Cal Date : 04-JAN-2005 11:33 Cal File: b5239.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	0.946	0.929	(0.514)	59547	48.6559	24.3
$ 3 Phenol-d5	99	1.676	1.642	(0.911)	72730	36.4429	18.2(M)
$ 6 2-Chlorophenol-d4	132	1.718	1.698	(0.934)	82787	94.1508	47.1(M)
* 8 1,4-Dichlorobenzene-d4	115	1.840	1.840	(1.000)	24127	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	1.937	1.937	(1.052)	42190	64.3137	32.2
$ 16 Nitrobenzene-d5	82	2.198	2.198	(0.837)	175069	89.3140	44.6
* 23 Naphthalene-d8	136	2.627	2.629	(1.000)	81846	40.0000	
27 Caprolactam	113	3.156	2.995	(1.183)	5506301	19663.2	9830(M)
$ 33 2-Fluorobiphenyl	172	3.296	3.291	(0.892)	147545	83.7884	41.9
* 41 Acenaphthene-d10	164	3.697	3.694	(1.000)	50946	40.0000	
$ 53 2,4,6-Tribromophenol	332	4.182	4.179	(1.131)	36870	132.864	66.4
* 58 Phenanthrene-d10	188	4.599	4.599	(1.000)	81756	40.0000	
62 Di-n-butylphthalate	149	4.974	4.977	(1.081)	2126	1.06193	0.531(a)
$ 65 Terphenyl-d14	244	5.607	5.607	(0.882)	130459	70.7725	35.4

Data File: /var/chem/MSSV3.i/2050104.s.b/b5249.d

Date : 04-JAN-2005 14:49

Client ID: 20412270710

Instrument: MSSV3.i

Sample Info: 20412270710M4342M

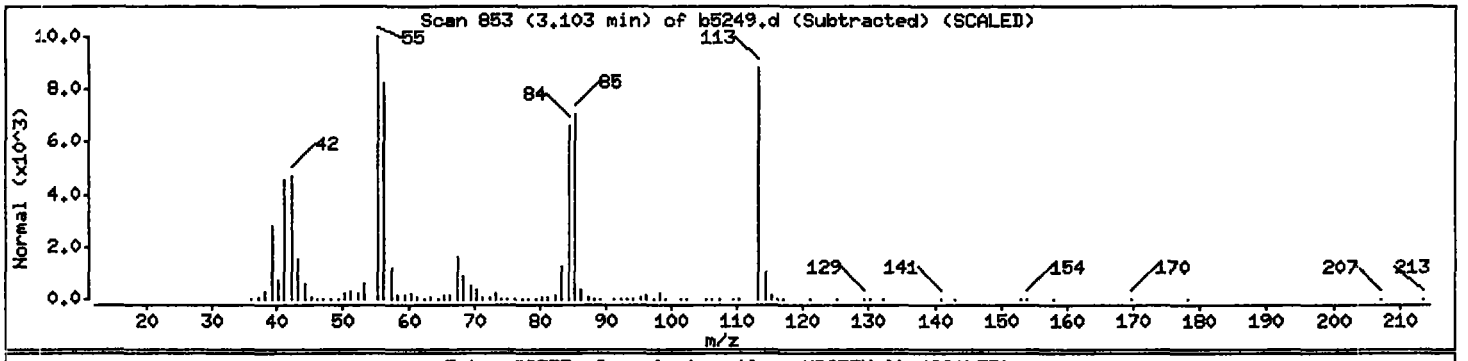
Volume Injected (uL): 2.0

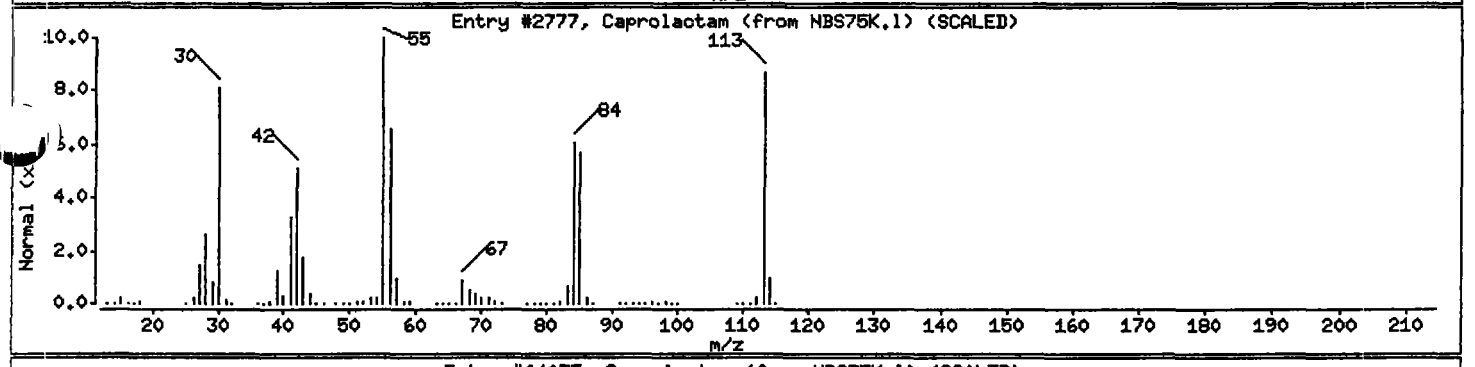
Operator: jar3

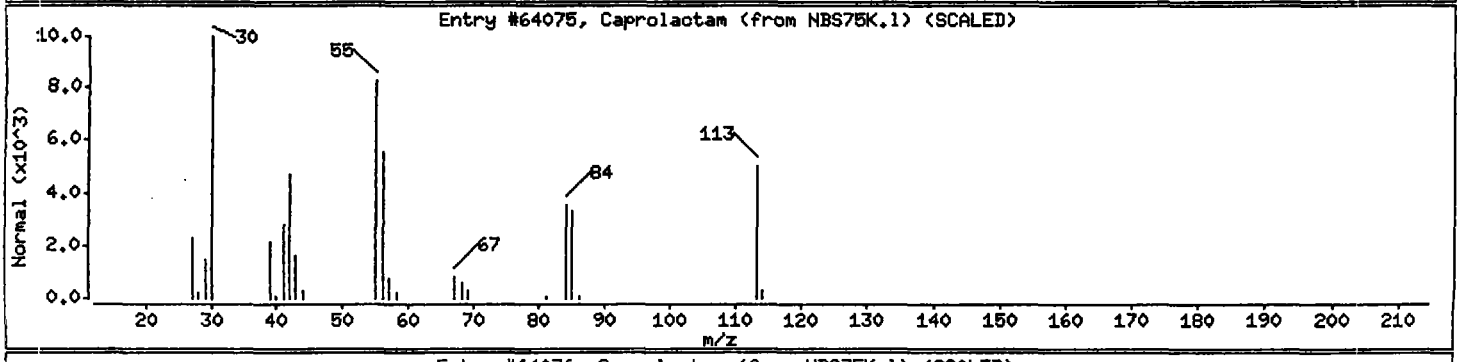
Column phase: DB-5MS-30M

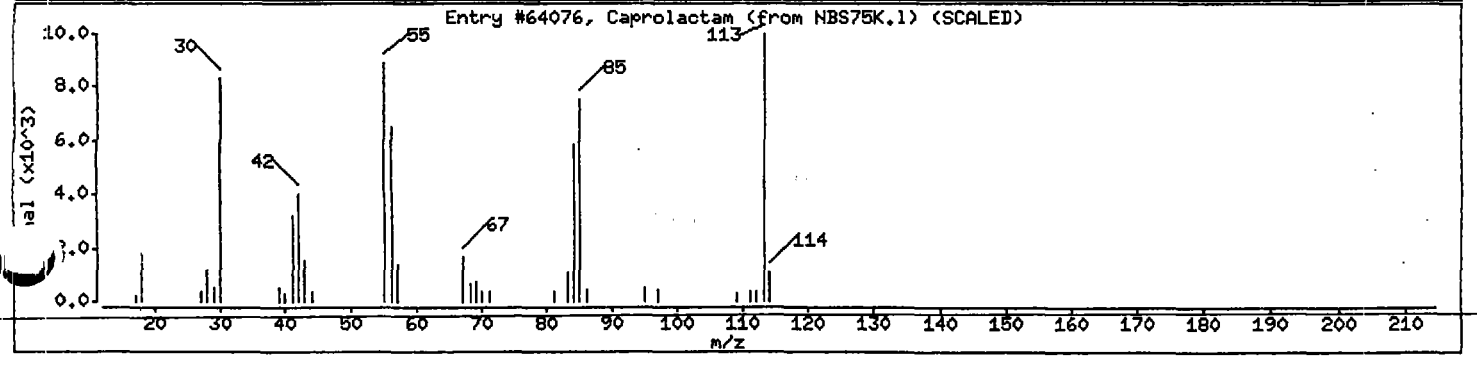
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Caprolactam	105-60-2	NBS75K.l	2777	97	C6H11NO	113
Caprolactam	105-60-2	NBS75K.l	64075	90	C6H11NO	113
Caprolactam	105-60-2	NBS75K.l	64076	87	C6H11NO	113









1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW241012

Contract:

Lab File ID: 2050104/B5250

Lab Sample ID: 20412270711

Date Collected: 12/21/04 Time: 1037

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1509

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0

R

5/12/05

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW241012

Contract:

Lab File ID: 2050104/B5250

Lab Sample ID: 20412270711

Date Collected: 12/21/04 Time: 1037

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1509

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
117-81-7	bis(2-ethylhexyl)phthalate	~~0.00822~~	J	0.010	10.0	u
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0	
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	UJ
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	UJ
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	UJ
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	UJ
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	

5/12/05 [illegible]

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW241012

Contract:

Lab File ID: 2050104/B5250

Lab Sample ID: 20412270711

Date Collected: 12/21/04 Time: 1037

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1509

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204122707
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW241012
Contract:
Lab File ID: 2050104/B5250
Lab Sample ID: 20412270711
Date Collected: 12/21/04 Time: 1037
Date Received: 12/27/04
Date Extracted:
Date Analyzed: 01/04/05 Time: 1509
Dilution Factor: 1 Analyst: JAR3
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	105-60-2	Caprolactam	2.907	44	

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2050104.s.b/b5250.d
Lab Smp Id: 20412270711 Client Smp ID: 20412270711
Inj Date : 04-JAN-2005 15:09
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 20412270711*4342*
Misc Info : 20412270711*MSSV-2464-*122707*1000-1.0
Comment :
Method : /var/chem/MSSV3.i/2050104.s.b/CLP4.2_02.m.m
Meth Date : 04-Jan-2005 12:37 rlw Quant Type: ISTD
Cal Date : 04-JAN-2005 11:33 Cal File: b5239.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	0.929	0.929	(0.505)	150615	128.606	64.3
$ 3 Phenol-d5	99	1.642	1.642	(0.892)	221366	115.911	58.0
$ 6 2-Chlorophenol-d4	132	1.698	1.698	(0.923)	94900	112.783	56.4
* 8 1,4-Dichlorobenzene-d4	115	1.840	1.840	(1.000)	23088	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	1.937	1.937	(1.052)	45400	72.3214	36.2
$ 16 Nitrobenzene-d5	82	2.198	2.198	(0.837)	186460	91.3892	45.7
* 23 Naphthalene-d8	136	2.626	2.629	(1.000)	85192	40.0000	
27 Caprolactam	113	2.910	2.905	(1.108)	65020	223.069	112
$ 33 2-Fluorobiphenyl	172	3.288	3.291	(0.892)	143303	89.0072	44.5
* 41 Acenaphthene-d10	164	3.691	3.694	(1.000)	46580	40.0000	
$ 53 2,4,6-Tribromophenol	332	4.176	4.179	(1.131)	34404	135.598	67.8
* 58 Phenanthrene-d10	188	4.593	4.599	(1.000)	76301	40.0000	
$ 65 Terphenyl-d14	244	5.601	5.607	(0.881)	56428	31.6996	15.8(R)
* 69 Chrysene-d12	240	6.356	6.365	(1.000)	88457	40.0000	

Data File: /var/chem/MSSV3.i/2050104.s.b/b5250.d

Date : 04-JAN-2005 15:09

Client ID: 20412270711

Instrument: MSSV3.i

Sample Info: 20412270711M4342M

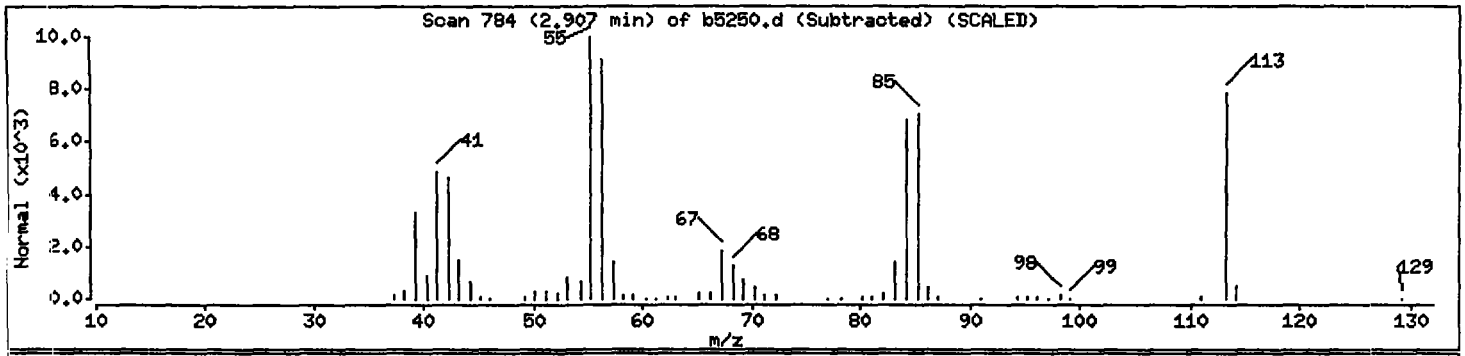
Volume Injected (uL): 2.0

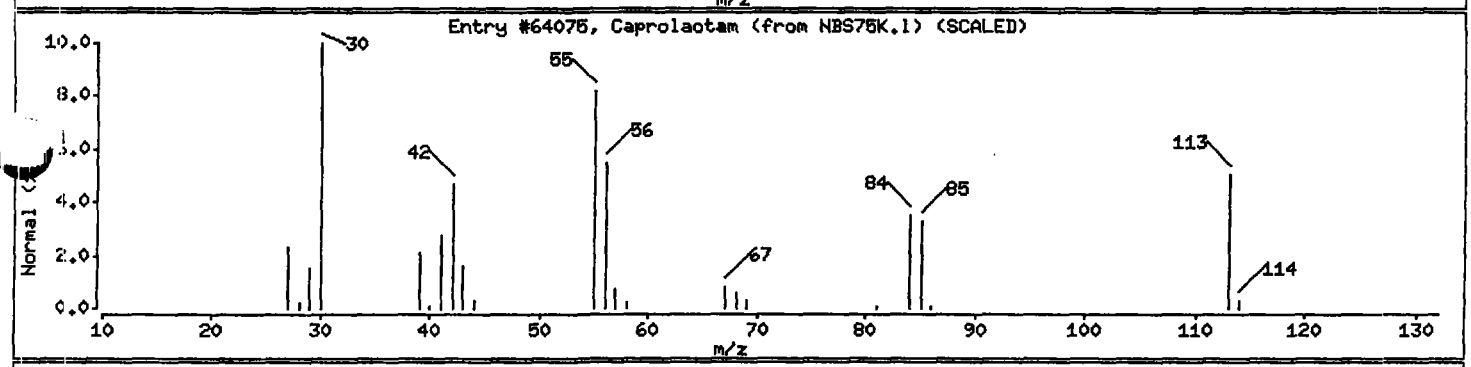
Operator: jar3

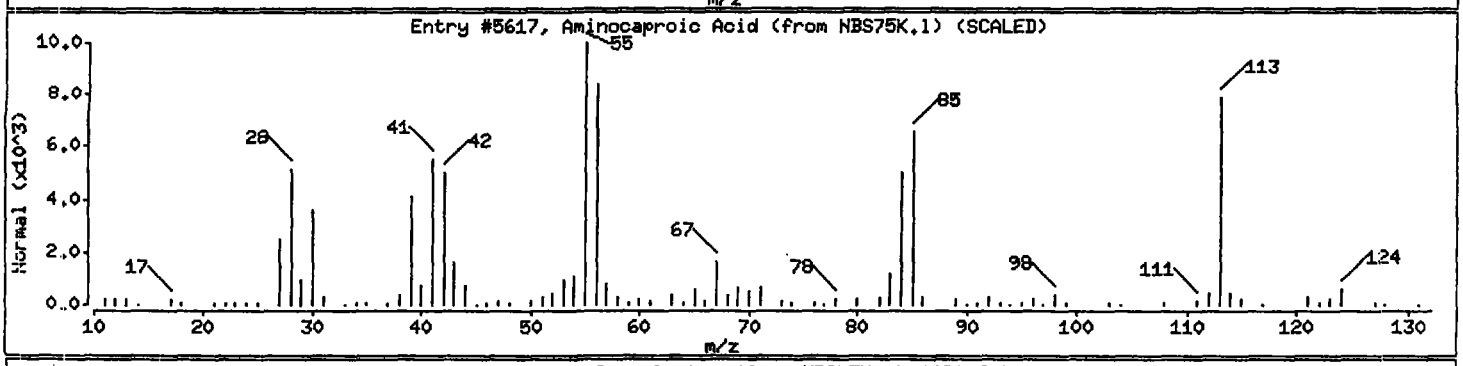
Column phase: DB-5MS-30M

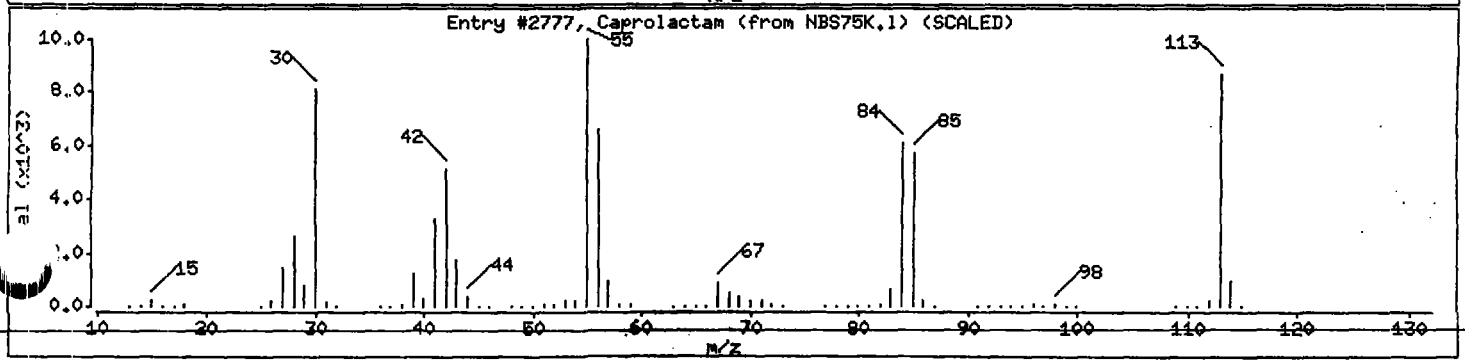
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Caprolactam	105-60-2	NBS75K.l	64075	90	C6H11NO	113
Aminocaproic Acid	60-32-2	NBS75K.l	5617	83	C6H13NO2	131
Caprolactam	105-60-2	NBS75K.l	2777	76	C6H11NO	113









1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKSW521012

Contract:

Lab File ID: 2050104/B5251

Lab Sample ID: 20412270712

Date Collected: 12/21/04 Time: 1355

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1528

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0

R

5/12/05 MK

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSW521012

Contract:

Lab File ID: 2050104/B5251

Lab Sample ID: 20412270712

Date Collected: 12/21/04 Time: 1355

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1528

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
117-81-7	bis(2-ethylhexyl)phthalate	~~1.38~~ 10.0	J	0.010	10.0	UL
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0	
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	US
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	US
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	US
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	US
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	

strike out

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSW521012

Contract:

Lab File ID: 2050104/B5251

Lab Sample ID: 20412270712

Date Collected: 12/21/04 Time: 1355

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1528

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204122707
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: RTX-5MS-30 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSW521012
Contract:
Lab File ID:
Lab Sample ID: 20412270712
Date Collected: 12/21/04 Time: 1355
Date Received: 12/27/04
Date Extracted:
Date Analyzed: 01/04/05 Time: 1528
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2050104.s.b/b5251.d
Lab Smp Id: 20412270712 Client Smp ID: 20412270712
Inj Date : 04-JAN-2005 15:28
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 20412270712*4342*
Misc Info : 20412270712*MSSV-2464-*122707*1000-1.0
Comment :
Method : /var/chem/MSSV3.i/2050104.s.b/CLP4.2_02.m.m
Meth Date : 04-Jan-2005 12:37 rlw Quant Type: ISTD
Cal Date : 04-JAN-2005 11:33 Cal File: b5239.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	0.929	0.929	(0.505)	181273	127.877	63.9
$ 3 Phenol-d5	99	1.641	1.642	(0.892)	280562	121.369	60.7
$ 6 2-Chlorophenol-d4	132	1.698	1.698	(0.923)	120783	118.591	59.3
• 8 1,4-Dichlorobenzene-d4	115	1.840	1.840	(1.000)	27946	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	1.937	1.937	(1.052)	58225	76.6280	38.3
$ 16 Nitrobenzene-d5	82	2.198	2.198	(0.837)	222691	92.1588	46.1
• 23 Naphthalene-d8	136	2.626	2.629	(1.000)	100896	40.0000	
$ 33 2-Fluorobiphenyl	172	3.288	3.291	(0.891)	183780	94.9873	47.5
• 41 Acenaphthene-d10	164	3.691	3.694	(1.000)	55976	40.0000	
$ 53 2,4,6-Tribromophenol	332	4.176	4.179	(1.131)	45328	148.665	74.3
• 58 Phenanthrene-d10	188	4.593	4.599	(1.000)	91828	40.0000	
$ 65 Terphenyl-d14	244	5.604	5.607	(0.882)	207640	93.8842	46.9
• 69 Chrysene-d12	240	6.356	6.365	(1.000)	109903	40.0000	
71 bis(2-Ethylhexyl)phthalate	149	6.412	6.416	(1.009)	3644	2.75549	1.38(a)

Data File: /var/chem/MSSV3.i/2050104.s.b/b5251.d

Date : 04-JAN-2005 15:28

Client ID: 20412270712

Instrument: MSSV3.i

Sample Info: 20412270712M4342M

Volume Injected (uL): 2.0

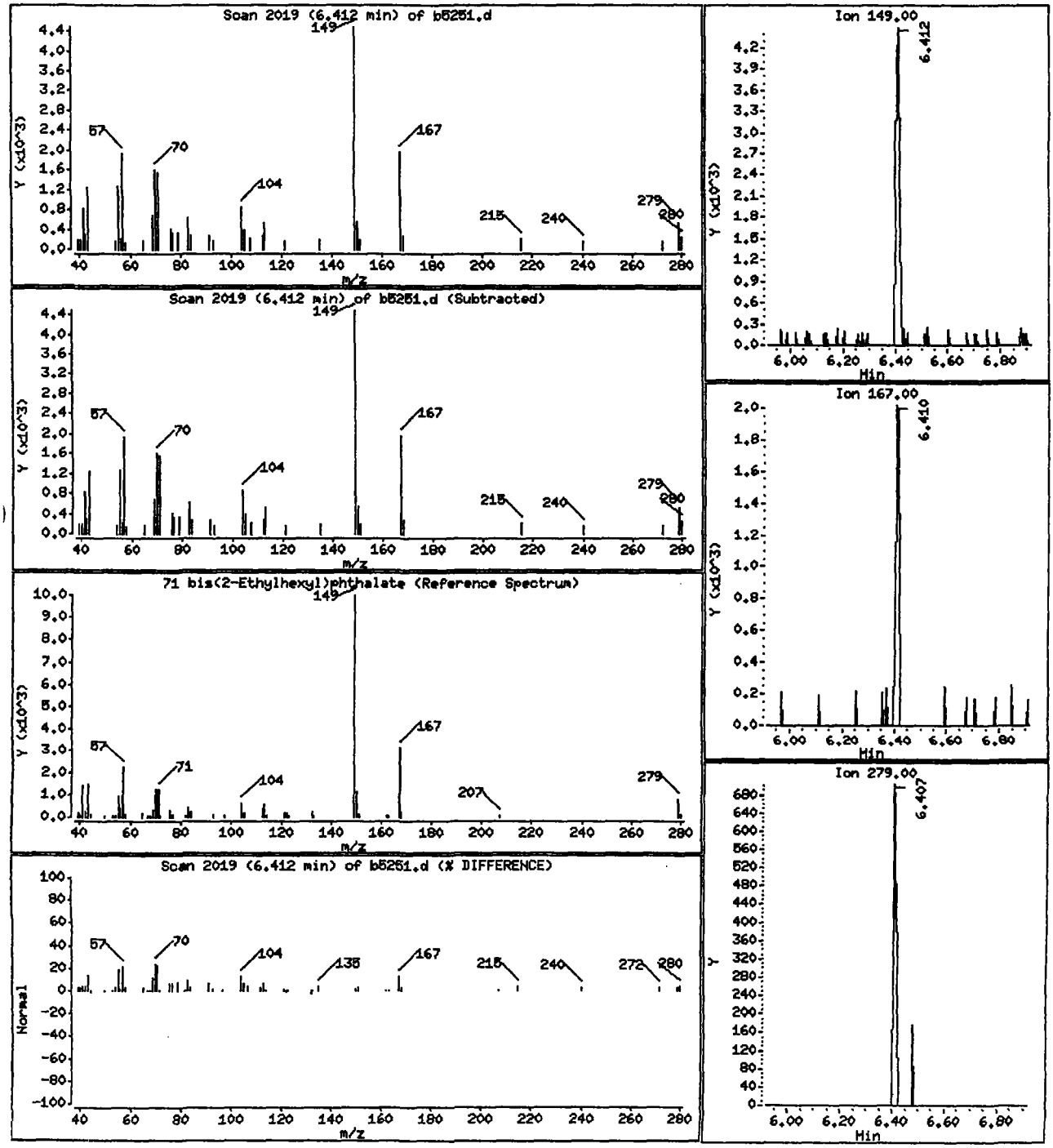
Operator: jar3

Column phase: DB-5MS-30M

Column diameter: 0.25

71 bis(2-Ethylhexyl)phthalate

Concentration: 1.38 ug/L



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWEB1012

Contract:

Lab File ID: 2050104/B5252

Lab Sample ID: 20412270713

Date Collected: 12/21/04 Time: 1425

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1548

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	10.0	U	0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	10.0	U	0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0

R

5/12/05 mn

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSWEB1012

Contract:

Lab File ID: 2050104/B5252

Lab Sample ID: 20412270713

Date Collected: 12/21/04 Time: 1425

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1548

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
117-81-7	bis(2-ethylhexyl)phthalate	1.23	J	0.010	10.0	
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0	
86-74-8	Carbazole	10.0	U	0.010	10.0	
218-01-9	Chrysene	10.0	U	0.010	10.0	
84-74-2	Di-n-butylphthalate	0.779	J	0.010	10.0	
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	UJ
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0	
132-64-9	Dibenzofuran	10.0	U	0.010	10.0	
84-66-2	Diethylphthalate	10.0	U	0.010	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0	
206-44-0	Fluoranthene	10.0	U	0.010	10.0	
86-73-7	Fluorene	10.0	U	0.010	10.0	
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0	
67-72-1	Hexachloroethane	10.0	U	0.010	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0	
78-59-1	Isophorone	10.0	U	0.010	10.0	
91-20-3	Naphthalene	10.0	U	0.010	10.0	
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0	UJ
98-95-3	Nitrobenzene	10.0	U	0.010	10.0	
100-02-7	4-Nitrophenol	25.0	U	0.010	25.0	UJ
87-86-5	Pentachlorophenol	25.0	U	0.010	25.0	UJ
85-01-8	Phenanthrene	10.0	U	0.010	10.0	
108-95-2	Phenol	10.0	U	0.010	10.0	
129-00-0	Pyrene	10.0	U	0.010	10.0	
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	0.010	10.0	

Stirlo-f

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSWEB1012

Contract:

Lab File ID: 2050104/B5252

Lab Sample ID: 20412270713

Date Collected: 12/21/04 Time: 1425

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1548

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204122707
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: RTX-5MS-30 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWEB1012
Contract:
Lab File ID:
Lab Sample ID: 20412270713
Date Collected: 12/21/04 Time: 1425
Date Received: 12/27/04
Date Extracted:
Date Analyzed: 01/04/05 Time: 1548
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 0

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		No tics detected			

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2050104.s.b/b5252.d
Lab Smp Id: 20412270713 Client Smp ID: 20412270713
Inj Date : 04-JAN-2005 15:48
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 20412270713*4342*
Misc Info : 20412270713*MSSV-2464-*122707*1000-1.0
Comment :
Method : /var/chem/MSSV3.i/2050104.s.b/CLP4.2_02.m.m
Meth Date : 04-Jan-2005 12:37 rlw Quant Type: ISTD
Cal Date : 04-JAN-2005 11:33 Cal File: b5239.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL. RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	0.929	0.929	(0.505)	166415	127.224	63.6
$ 3 Phenol-d5	99	1.642	1.642	(0.892)	243732	114.264	57.1
$ 6 2-Chlorophenol-d4	132	1.701	1.698	(0.924)	106662	113.494	56.7
• 8 1,4-Dichlorobenzene-d4	115	1.840	1.840	(1.000)	25787	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	1.937	1.937	(1.052)	51431	73.3536	36.7
12 Acetophenone	105	2.104	2.107	(1.143)	6281	2.97396	1.49(a)
$ 16 Nitrobenzene-d5	82	2.198	2.198	(0.837)	186535	84.9559	42.5
• 23 Naphthalene-d8	136	2.626	2.629	(1.000)	91680	40.0000	
$ 33 2-Fluorobiphenyl	172	3.291	3.291	(0.892)	154674	85.4549	42.7
• 41 Acenaphthene-d10	164	3.691	3.694	(1.000)	52366	40.0000	
$ 53 2,4,6-Tribromophenol	332	4.179	4.179	(1.132)	37152	130.250	65.1
• 58 Phenanthrene-d10	188	4.596	4.599	(1.000)	82757	40.0000	
62 Di-n-butylphthalate	149	4.974	4.977	(1.082)	3157	1.55860	0.779(a)
$ 65 Terphenyl-d14	244	5.607	5.607	(0.882)	183207	91.9765	46.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSW50MS1012

Contract:

Lab File ID: 2050104/B5242

Lab Sample ID: 20412270702

Date Collected: 12/21/04 Time: 1247

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1232

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	40.5		0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	56.5		0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	59.3		0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	40.9		0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKSW50MS1012

Contract:

Lab File ID: 2050104/B5242

Lab Sample ID: 20412270702

Date Collected: 12/21/04 Time: 1247

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1232

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
117-81-7	bis(2-ethylhexyl)phthalate	1.64	J	0.010	10.0
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0
86-74-8	Carbazole	10.0	U	0.010	10.0
218-01-9	Chrysene	10.0	U	0.010	10.0
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0
132-64-9	Dibenzofuran	10.0	U	0.010	10.0
84-66-2	Diethylphthalate	10.0	U	0.010	10.0
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0
206-44-0	Fluoranthene	10.0	U	0.010	10.0
86-73-7	Fluorene	10.0	U	0.010	10.0
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0
67-72-1	Hexachloroethane	10.0	U	0.010	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0
78-59-1	Isophorone	10.0	U	0.010	10.0
91-20-3	Naphthalene	10.0	U	0.010	10.0
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0
98-95-3	Nitrobenzene	10.0	U	0.010	10.0
100-02-7	4-Nitrophenol	54.6		0.010	25.0
87-86-5	Pentachlorophenol	71.7		0.010	25.0
85-01-8	Phenanthrene	10.0	U	0.010	10.0
108-95-2	Phenol	56.2		0.010	10.0
129-00-0	Pyrene	43.7		0.010	10.0
621-64-7	N-Nitroso-di-n-propylamine	40.8		0.010	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSW50MS1012

Contract:

Lab File ID: 2050104/B5242

Lab Sample ID: 20412270702

Date Collected: 12/21/04 Time: 1247

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1232

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2050104.s.b/b5242.d
Lab Smp Id: 20412270702 Client Smp ID: 20412270702
Inj Date : 04-JAN-2005 12:32
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 20412270702*4342*
Misc Info : 20412270702*MSSV-2464-*122707*1000-1.0
Comment :
Method : /var/chem/MSSV3.i/2050104.s.b/CLP4.2_02.m.m
Meth Date : 04-Jan-2005 12:37 rlw Quant Type: ISTD
Cal Date : 04-JAN-2005 11:33 Cal File: b5239.d
Als bottle: 6 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	CONCENTRATIONS FINAL (ug/L)
$ 1 2-Fluorophenol	112	0.926	0.929	(0.503)	154603	124.979	62.5
$ 3 Phenol-d5	99	1.642	1.642	(0.892)	241888	119.910	60.0
4 Phenol +	94	1.650	1.650	(0.897)	269156	112.337	56.2
$ 6 2-Chlorophenol-d4	132	1.698	1.698	(0.923)	103752	116.736	58.4
7 2-Chlorophenol	128	1.710	1.710	(0.929)	100490	112.986	56.5
* 8 1,4-Dichlorobenzene-d4	115	1.840	1.840	(1.000)	24387	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	1.937	1.937	(1.052)	48915	73.7702	36.9
14 N-Nitroso-di-n-propylamine ++	70	2.110	2.113	(1.147)	111958	81.6831	40.8
$ 16 Nitrobenzene-d5	82	2.198	2.198	(0.837)	183347	82.3932	41.2
* 23 Naphthalene-d8	136	2.626	2.629	(1.000)	92916	40.0000	
28 4-Chloro-3-Methylphenol +	107	2.998	3.007	(1.142)	137831	118.559	59.3
$ 33 2-Fluorobiphenyl	172	3.288	3.291	(0.892)	161511	86.8087	43.4
* 41 Acenaphthene-d10	164	3.691	3.694	(1.000)	53828	40.0000	
42 Acenaphthene +	153	3.711	3.714	(1.005)	118526	81.8124	40.9

MSE 5/NJ-5

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSW50MSD1012

Contract:

Lab File ID: 2050104/B5243

Lab Sample ID: 20412270703

Date Collected: 12/21/04 Time: 1300

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1252

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	0.010	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	0.010	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	0.010	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	0.010	25.0
121-14-2	2,4-Dinitrotoluene	39.8		0.010	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	0.010	10.0
91-58-7	2-Chloronaphthalene	10.0	U	0.010	10.0
95-57-8	2-Chlorophenol	58.1		0.010	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.010	10.0
88-74-4	2-Nitroaniline	25.0	U	0.010	25.0
88-75-5	2-Nitrophenol	10.0	U	0.010	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	0.010	10.0
99-09-2	3-Nitroaniline	25.0	U	0.010	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	0.010	25.0
59-50-7	4-Chloro-3-methylphenol	59.8		0.010	10.0
106-47-8	4-Chloroaniline	10.0	U	0.010	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.010	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	0.010	10.0
83-32-9	Acenaphthene	41.6		0.010	10.0
208-96-8	Acenaphthylene	10.0	U	0.010	10.0
120-12-7	Anthracene	10.0	U	0.010	10.0
56-55-3	Benzo(a)anthracene	10.0	U	0.010	10.0
50-32-8	Benzo(a)pyrene	10.0	U	0.010	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	0.010	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.010	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	0.010	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.010	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	0.010	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.010	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSW50MSD1012

Contract:

Lab File ID: 2050104/B5243

Lab Sample ID: 20412270703

Date Collected: 12/21/04 Time: 1300

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1252

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
117-81-7	bis(2-ethylhexyl)phthalate	10.0	U	0.010	10.0
101-55-3	4-Bromophenyl-phenylether	10.0	U	0.010	10.0
85-68-7	Butylbenzylphthalate	10.0	U	0.010	10.0
86-74-8	Carbazole	10.0	U	0.010	10.0
218-01-9	Chrysene	10.0	U	0.010	10.0
84-74-2	Di-n-butylphthalate	10.0	U	0.010	10.0
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0
53-70-3	Dibenz(a,h)anthracene	10.0	U	0.010	10.0
132-64-9	Dibenzofuran	10.0	U	0.010	10.0
84-66-2	Diethylphthalate	10.0	U	0.010	10.0
131-11-3	Dimethyl-phthalate	10.0	U	0.010	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	0.010	10.0
206-44-0	Fluoranthene	10.0	U	0.010	10.0
86-73-7	Fluorene	10.0	U	0.010	10.0
118-74-1	Hexachlorobenzene	10.0	U	0.010	10.0
87-68-3	Hexachlorobutadiene	10.0	U	0.010	10.0
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.010	10.0
67-72-1	Hexachloroethane	10.0	U	0.010	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	0.010	10.0
78-59-1	Isophorone	10.0	U	0.010	10.0
91-20-3	Naphthalene	10.0	U	0.010	10.0
100-01-6	4-Nitroaniline	25.0	U	0.010	25.0
98-95-3	Nitrobenzene	10.0	U	0.010	10.0
100-02-7	4-Nitrophenol	59.8		0.010	25.0
87-86-5	Pentachlorophenol	70.5		0.010	25.0
85-01-8	Phenanthrene	10.0	U	0.010	10.0
108-95-2	Phenol	57.8		0.010	10.0
129-00-0	Pyrene	46.8		0.010	10.0
621-64-7	N-Nitroso-di-n-propylamine	40.0		0.010	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122707

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSW50MSD1012

Contract:

Lab File ID: 2050104/B5243

Lab Sample ID: 20412270703

Date Collected: 12/21/04 Time: 1300

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/04/05 Time: 1252

Dilution Factor: 1 Analyst: JAR3

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 285467 Analytical Batch: 285763

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10.0	U	0.010	10.0
95-48-7	o-Cresol	10.0	U	0.010	10.0

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2050104.s.b/b5243.d
Lab Smp Id: 20412270703 Client Smp ID: 20412270703
Inj Date : 04-JAN-2005 12:52
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 20412270703*4342*
Misc Info : 20412270703*MSSV-2464-*122707*1000-1.0
Comment :
Method : /var/chem/MSSV3.i/2050104.s.b/CLP4.2_02.m.m
Meth Date : 04-Jan-2005 12:37 rlw Quant Type: ISTD
Cal Date : 04-JAN-2005 11:33 Cal File: b5239.d
Als bottle: 7 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	0.929	0.929	(0.505)	184695	124.691	62.3
$ 3 Phenol-d5	99	1.642	1.642	(0.892)	294325	121.851	60.9
4 Phenol +	94	1.656	1.650	(0.897)	331609	115.586	57.8
$ 6 2-Chlorophenol-d4	132	1.698	1.698	(0.921)	127527	119.831	59.9
7 2-Chlorophenol	128	1.710	1.710	(0.929)	123813	116.260	58.1
* 8 1,4-Dichlorobenzene-d4	115	1.840	1.840	(1.000)	29201	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	1.937	1.937	(1.052)	59136	74.4820	37.2
14 N-Nitroso-di-n-propylamine ++	70	2.110	2.113	(1.147)	131436	80.0852	40.0
$ 16 Nitrobenzene-d5	82	2.198	2.198	(0.837)	218353	86.6147	43.3
* 23 Naphthalene-d8	136	2.627	2.629	(1.000)	105263	40.0000	
28 4-Chloro-3-Methylphenol +	107	2.998	3.007	(1.142)	157580	119.647	59.8
$ 33 2-Fluorobiphenyl	172	3.288	3.291	(0.891)	184405	90.3289	45.2
* 41 Acenaphthene-d10	164	3.691	3.694	(1.000)	59063	40.0000	
42 Acenaphthene +	153	3.711	3.714	(1.005)	132276	83.2108	41.6

sk=1.5

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

214753

Lab Name: GCAL Contract:

Lab Code: Case No.: 204122707 SAS No.: SDG No.: 204122707

Lab Sample ID: 214753 Lab File ID: _____

Matrix (soil/water) WATER Extraction:(Type) SEPF

Sulfur Cleanup (Y/N) N Date Extracted: 12/27/04

Date Analyzed (1): 01/05/05 Date Analyzed (2): 01/04/05

Time Analyzed (1): 2223 Time Analyzed (2): 1052

Instrument ID (1): GCSV3AD Instrument ID (2): GCSV11

GC Column (1): RTX-1701-30M ID: 0.53(mm) GC Column (2): RTX-50-30M ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	SKSW501012	20412270701	01/05/05	
02	SKSW50MS1012	20412270702	01/05/05	
03	SKSW50MSD101	20412270703	01/05/05	
04	SKGW301012	20412270705	01/06/05	
05	SKSW511012	20412270706	01/06/05	
06	SKSW51FD1012	20412270707	01/06/05	
07	SKGW241012	20412270711	01/06/05	
08	SKSW521012	20412270712	01/06/05	
09	SKGW581012	20412270708	01/06/05	01/06/05
10	SKGW58FD1012	20412270709	01/06/05	01/06/05
11	SKGW261012	20412270710	01/06/05	01/06/05
12	SKSWEB1012	20412270713	01/06/05	01/06/05
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: SKSW501012
Lab Code: LA024 Case No.:
Contract:
Matrix: Water
SAS No.: SDG No.: 204122707
Sample wt/vol: 1000 Units: mL
Lab Sample ID: 20412270701
Level: (low/med) LOW
Date Collected: 12/21/04 Time: 1234
% Moisture: decanted: (Y/N)
Date Received: 12/27/04
GC Column: RTX-1701-3 ID: .53 (mm)
Date Extracted: 12/27/04
Concentrated Extract Volume: 1000 (µL)
Date Analyzed: 01/05/05 Time: 2253
Soil Aliquot Volume: (µL)
Dilution Factor: 1 Analyst: DLB
Injection Volume: 1 (µL)
Prep Method: OLM4.2 PEST/PCB
GPC Cleanup: (Y/N) N pH:
Analytical Method: OLMO 4.2
Prep Batch: 285484 Analytical Batch: 285975
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B
CONCENTRATION UNITS: ug/L
Lab File ID: 2050105/SV3024

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285484 Analytical Batch: 285975

Sample ID: SKGW301012
Contract:
SAS No.: SDG No.: 204122707
Lab Sample ID: 20412270705
Date Collected: 12/20/04 Time: 1241
Date Received: 12/27/04
Date Extracted: 12/27/04
Date Analyzed: 01/06/05 Time: 0022
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B
Lab File ID: 2050105/SV3027

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

US

5/24/05

Data File: /var/chem/gcsv3ad.i/2050105.b/SV3027.d
Report Date: 15-Feb-2005 13:55

GCAL, Inc.

Data file : /var/chem/gcsv3ad.i/2050105.b/SV3027.d
Lab Smp Id: 20412270705 Client Smp ID: SKGW301012
Inj Date : 06-JAN-2005 00:22
Operator : dlb Inst ID: gcsv3ad.i
Smp Info : 20412270705-1.0-GCSV~45XX~-204122707--et 1000 10
Misc Info :
Comment :
Method : /var/chem/gcsv3ad.i/2050105.b/pestclp-f.m
Meth Date : 11-Feb-2005 15:56 dlb Quant Type: ESTD
Cal Date : 05-JAN-2005 18:26 Cal File: SV3015.d
Als bottle: 27
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

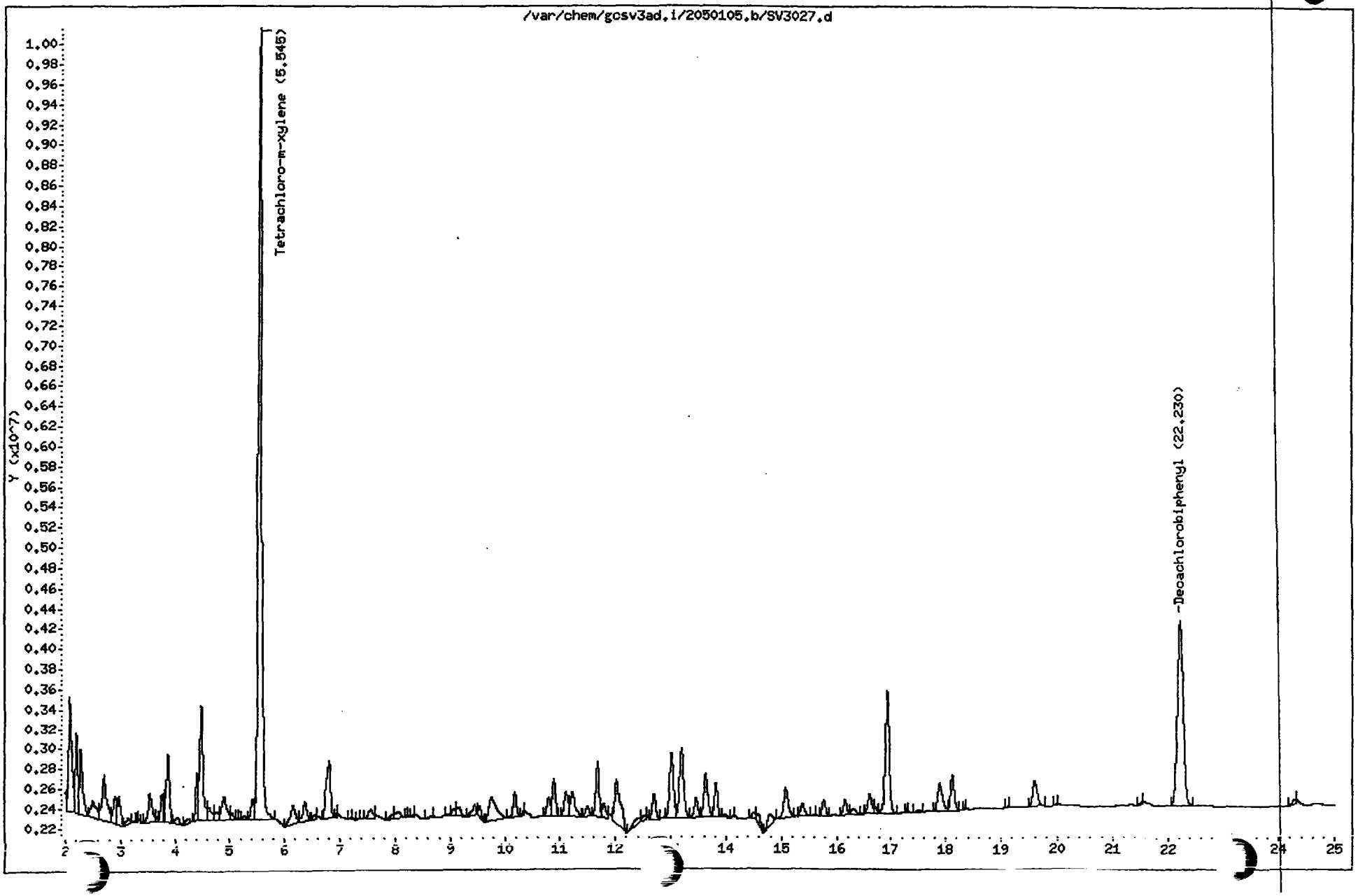
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.545	5.545	0.000	34096110	73.5214		80.00- 120.00	100.00(a)	
$ 22 Decachlorobiphenyl					CAS #: 2051-24-3			
22.230	22.227	0.003	13726464	47.3036		80.00- 120.00	100.00(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/gcsv3ad.i/2050105.b/SV3027.d
Date : 06-JAN-2005 00:22
Client ID: SKGW301012
Sample Info: 20412270705-1.0-GCSV^45XX^-204122707--et 1000 10
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv3ad.i
Operator: dlb
Column diameter: 0.53



000336

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285484 Analytical Batch: 285975

Sample ID: SKSW511012
Contract:
SAS No.: SDG No.: 204122707
Lab Sample ID: 20412270706
Date Collected: 12/21/04 Time: 1330
Date Received: 12/27/04
Date Extracted: 12/27/04
Date Analyzed: 01/06/05 Time: 0220
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B

CONCENTRATION UNITS: ug/L
Lab File ID: 2050105/SV3031

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

U5

5/24/05 MA

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285484 Analytical Batch: 285975

Sample ID: SKSW51FD1012
Contract:
SAS No.: SDG No.: 204122707
Lab Sample ID: 20412270707
Date Collected: 12/20/04 Time: 1345
Date Received: 12/27/04
Date Extracted: 12/27/04
Date Analyzed: 01/06/05 Time: 0250
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B

CONCENTRATION UNITS: ug/L
Lab File ID: 2050105/SV3032

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

UJ

Stay(s) msk

Data File: /var/chem/gcsv3ad.i/2050105.b/SV3032.d
Report Date: 04-Mar-2005 14:02

GCAL, Inc.

Data file : /var/chem/gcsv3ad.i/2050105.b/SV3032.d
Lab Smp Id: 20412270707 Client Smp ID: SKSW51FD1012
Inj Date : 06-JAN-2005 02:50
Operator : dlb Inst ID: gcsv3ad.i
Smp Info : 20412270707-1.0-GCSV~45XX~-20412270707--et 1000 10
Misc Info :
Comment :
Method : /var/chem/gcsv3ad.i/2050105.b/pestclp-f.m
Meth Date : 24-Feb-2005 14:41 dlb Quant Type: ESTD
Cal Date : 05-JAN-2005 17:26 Cal File: SV3013.d
Als bottle: 32
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

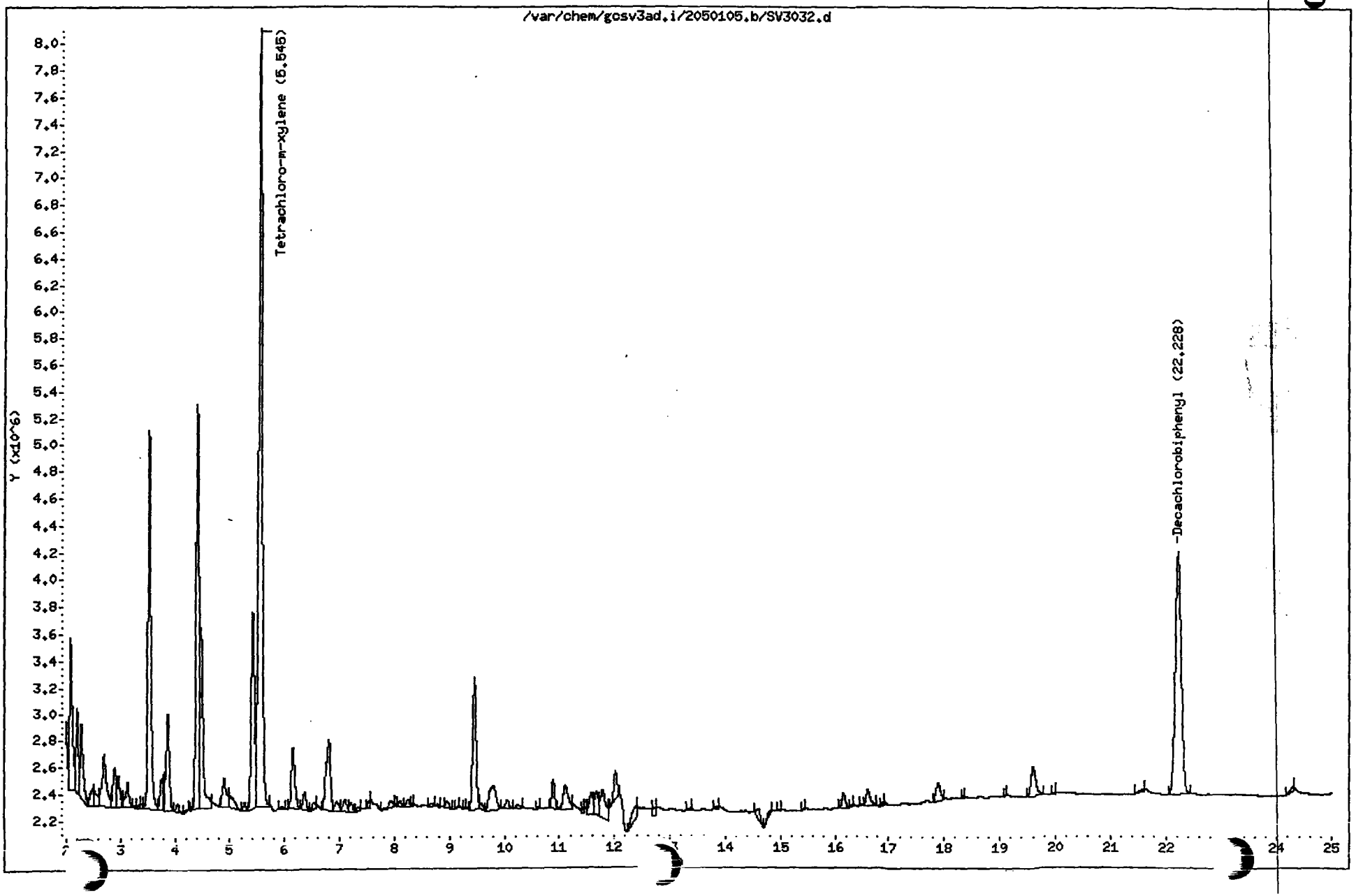
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.545	1.122	4.423	24735423	53.3369	0.053	80.00- 120.00	100.00	
$ 22 Decachlorobiphenyl					CAS #: 2051-24-3			
22.228	3.556	18.672	13707702	47.2390	0.047	80.00- 120.00	100.00	

Data File: /var/chem/gcsv3ad.i/2050105.b/SV3032.d
Date : 06-JAN-2005 02:50
Client ID: SKSW51FD1012
Sample Info: 20412270707-1.0-GCSV"45XX"-204122707--et 1000 10
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv3ad.i
Operator: dlb
Column diameter: 0.53



000342

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 285484 Analytical Batch: 285975

Sample ID: SKGW581012

Contract:

SAS No.: SDG No.: 204122707

Lab Sample ID: 20412270708

Date Collected: 12/20/04 Time: 1125

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/06/05 Time: 0320

Dilution Factor: 1 Analyst: DLB

Prep Method: OLM4.2 PEST/PCB

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B

Lab File ID: 2050105/SV3033

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.031	J	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

UJ

5/24/05 [illegible]

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285484 Analytical Batch: 285975

Sample ID: SKGW58FD1012
Contract:
SAS No.: SDG No.: 204122707
Lab Sample ID: 20412270709
Date Collected: 12/20/04 Time: 1142
Date Received: 12/27/04
Date Extracted: 12/27/04
Date Analyzed: 01/06/05 Time: 0349
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B
Lab File ID: 2050105/SV3034

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.00786	J	0.00010	0.100
309-00-2	Aldrin	0.00366	J	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.00703	J	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.00830	J	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.00367	J	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

Data File: /var/chem/gcsv3ad.i/2050105.b/SV3034.d
Report Date: 15-Feb-2005 13:56

GCAL, Inc.

Sample #1 : /var/chem/gcsv3ad.i/2050105.b/SV3034.d
Sample #2 : /var/chem/gcsv11.i/2050106.b/SV11021.d
Inj Date : 06-JAN-2005 03:49
Sample Info: 20412270709-1.0-GCSV~45XX~-204122707--et 1000 10
Misc Info :
Cal Date : 11-FEB-2005 11:21
Operator : dlb
Inst ID : gcsv3ad.i
Dil Factor : 1.000000

Method #1 : /var/chem/gcsv3ad.i/2050105.b/pestclp-f.m
Method #2 : /var/chem/gcsv11.i/2050106.b/pestclp-f.m
Sub List #1 : all.sub
Sub List #2 : all.sub
Col #1 Phase : RTX-1701-30M
Col #2 Phase : RTX-50-30M

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

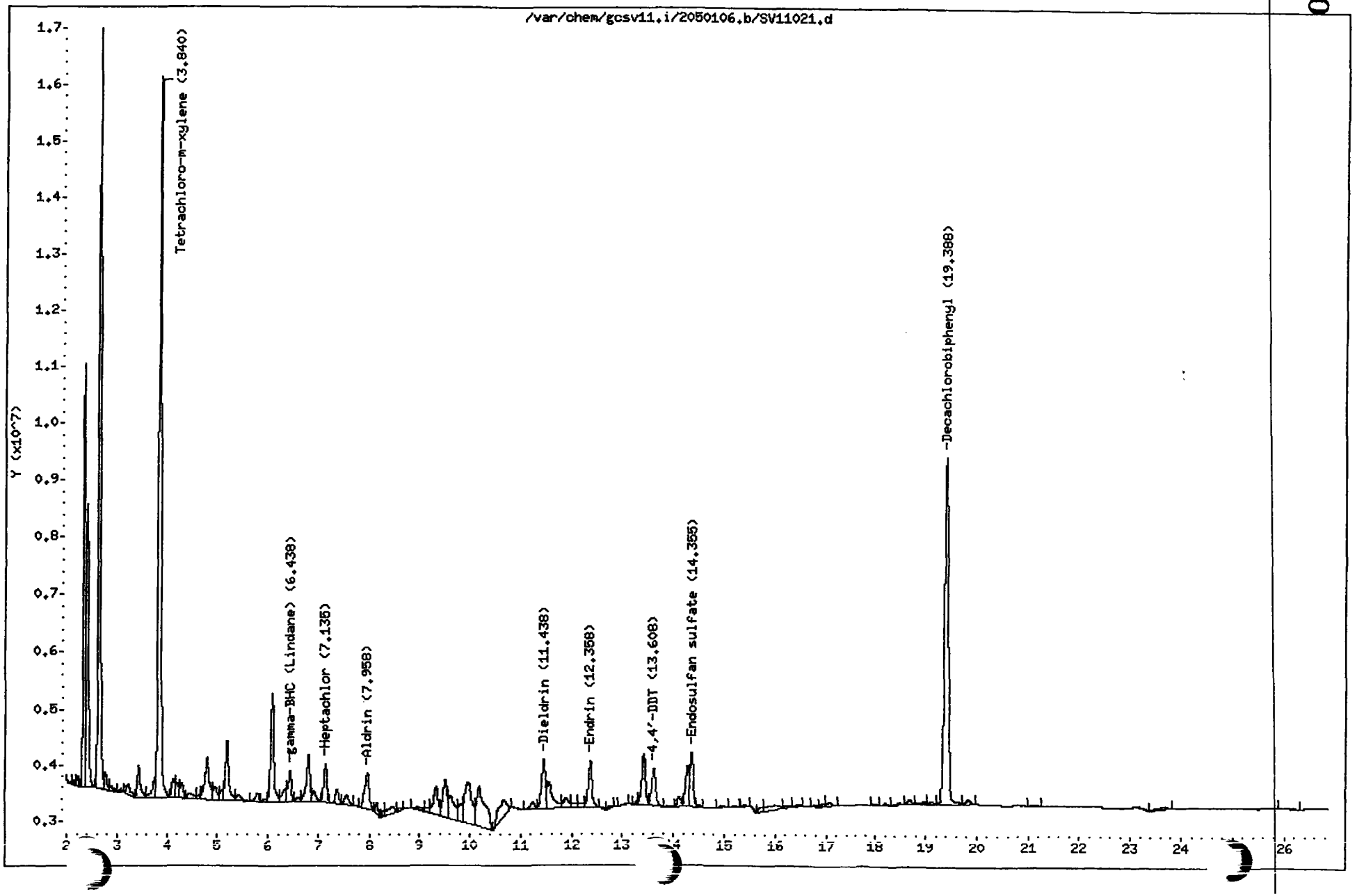
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

000349

Data File: /var/chem/gcsv11.i/2050106.b/SV11021.d
Date : 06-JAN-2005 18:41
Client ID: SKGW58FD1012
Sample Info: 20412270709-1.0-CCSV^45XX^-204122707--et 1000 10
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: dlb
Column diameter: 0.53



000352

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 285484 Analytical Batch: 285975

CONCENTRATION UNITS: ug/L

Sample ID: SKGW261012

Contract:

SAS No.: SDG No.: 204122707

Lab Sample ID: 20412270710

Date Collected: 12/21/04 Time: 0950

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/06/05 Time: 0419

Dilution Factor: 1 Analyst: DLB

Prep Method: OLM4.2 PEST/PCB

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B

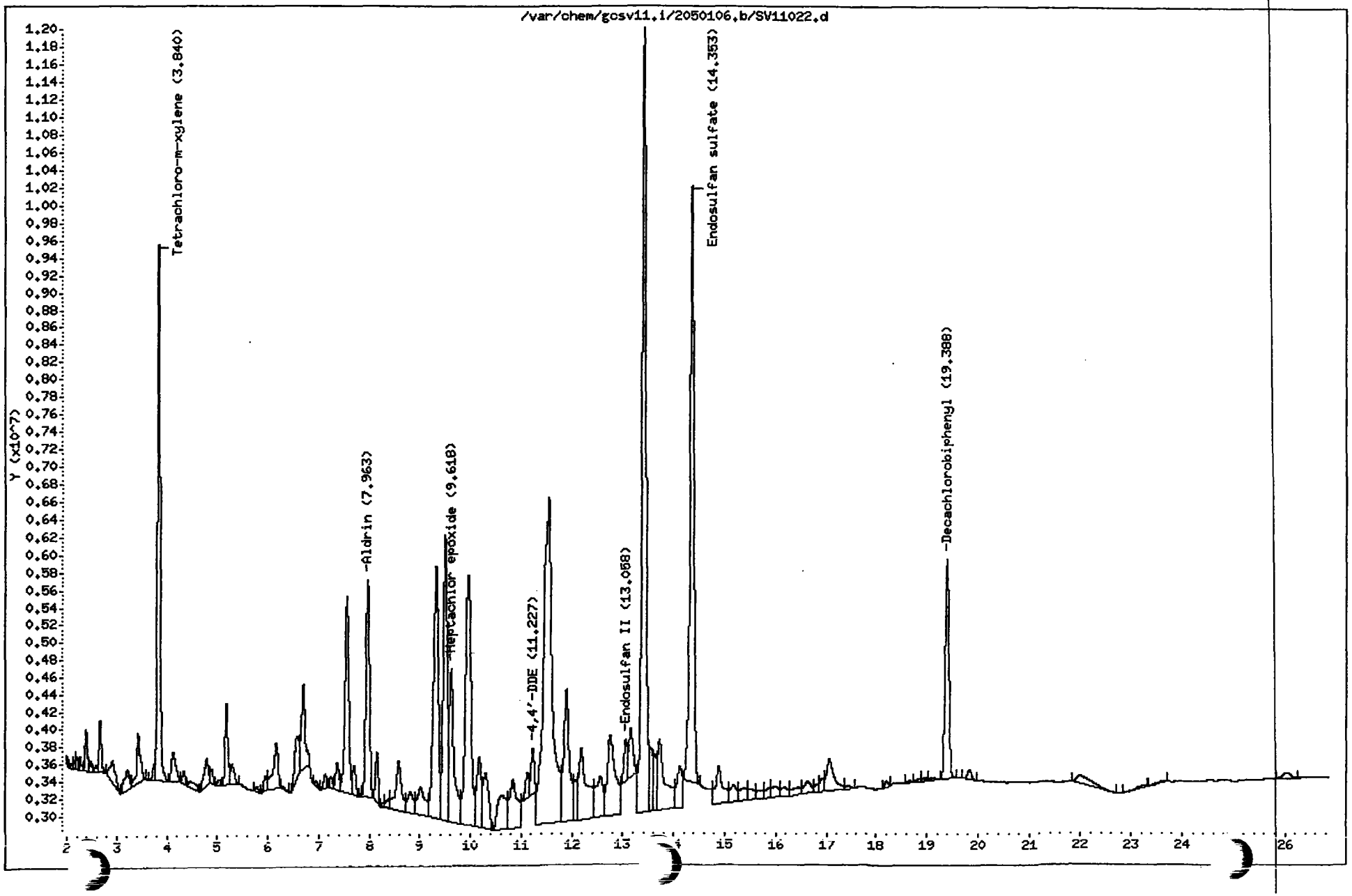
Lab File ID: 2050105/SV3035

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100	UJ
72-55-9	4,4'-DDE	0.0047	J	0.00010	0.100	J
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100	UJ
309-00-2	Aldrin	0.050	U	0.00010	0.050	
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00	
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00	
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00	
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00	
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00	
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00	
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00	
60-57-1	Dieldrin	0.100	U	0.00010	0.100	
959-98-8	Endosulfan I	0.050	U	0.00010	0.050	
33213-65-9	Endosulfan II	0.00492	J	0.00010	0.100	J
1031-07-8	Endosulfan sulfate	0.014	J	0.00010	0.100	J
72-20-8	Endrin	0.100	U	0.00010	0.100	UJ
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100	
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100	
76-44-8	Heptachlor	0.050	U	0.00010	0.050	
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050	
72-43-5	Methoxychlor	0.500	U	0.00010	0.500	
8001-35-2	Toxaphene	5.00	U	0.00010	5.00	
319-84-6	alpha-BHC	0.050	U	0.00010	0.050	
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050	
319-85-7	beta-BHC	0.050	U	0.00010	0.050	
319-86-8	delta-BHC	0.050	U	0.00010	0.050	
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050	
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050	

Stay for page

Data File: /var/chem/gcsv11.i/2050106.b/SV11022.d
Date : 06-JAN-2005 19:13
Client ID: SKGW261012
Sample Info: 20412270710-1.0-GCSV~45XX~-204122707--et 1000 10
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: dlb
Column diameter: 0.53



000358

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: SKGW241012
Lab Code: LA024 Case No.:
Contract:
Matrix: Water
SAS No.: SDG No.: 204122707
Sample wt/vol: 1000 Units: mL
Lab Sample ID: 20412270711
Level: (low/med) LOW
Date Collected: 12/21/04 Time: 1037
% Moisture: decanted: (Y/N)
Date Received: 12/27/04
GC Column: RTX-1701-3 ID: .53 (mm)
Date Extracted: 12/27/04
Concentrated Extract Volume: 1000 (µL)
Date Analyzed: 01/06/05 Time: 0449
Soil Aliquot Volume: (µL)
Dilution Factor: 1 Analyst: DLB
Injection Volume: 1 (µL)
Prep Method: OLM4.2 PEST/PCB
GPC Cleanup: (Y/N) N pH:
Analytical Method: OLMO 4.2
Prep Batch: 285484 Analytical Batch: 285975
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B
CONCENTRATION UNITS: ug/L
Lab File ID: 2050105/SV3036

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

US

4/24/05

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 285484 Analytical Batch: 285975

CONCENTRATION UNITS: ug/L

Sample ID: SKSW521012

Contract:

SAS No.: SDG No.: 204122707

Lab Sample ID: 20412270712

Date Collected: 12/21/04 Time: 1355

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/06/05 Time: 0518

Dilution Factor: 1 Analyst: DLB

Prep Method: OLM4.2 PEST/PCB

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B

Lab File ID: 2050105/SV3037

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

Data File: /var/chem/gcsv3ad.i/2050105.b/SV3037.d
Report Date: 03-Mar-2005 11:45

GCAL, Inc.

Data file : /var/chem/gcsv3ad.i/2050105.b/SV3037.d
Lab Smp Id: 20412270712 Client Smp ID: SKSW521012
Inj Date : 06-JAN-2005 05:18
Operator : dlb Inst ID: gcsv3ad.i
Smp Info : 20412270712-1.0-GCSV~45XX~-204122707--et 1000 10
Misc Info :
Comment :
Method : /var/chem/gcsv3ad.i/2050105.b/pestclp-f.m
Meth Date : 24-Feb-2005 14:41 dlb Quant Type: ESTD
Cal Date : 05-JAN-2005 17:26 Cal File: SV3013.d
Als bottle: 37
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

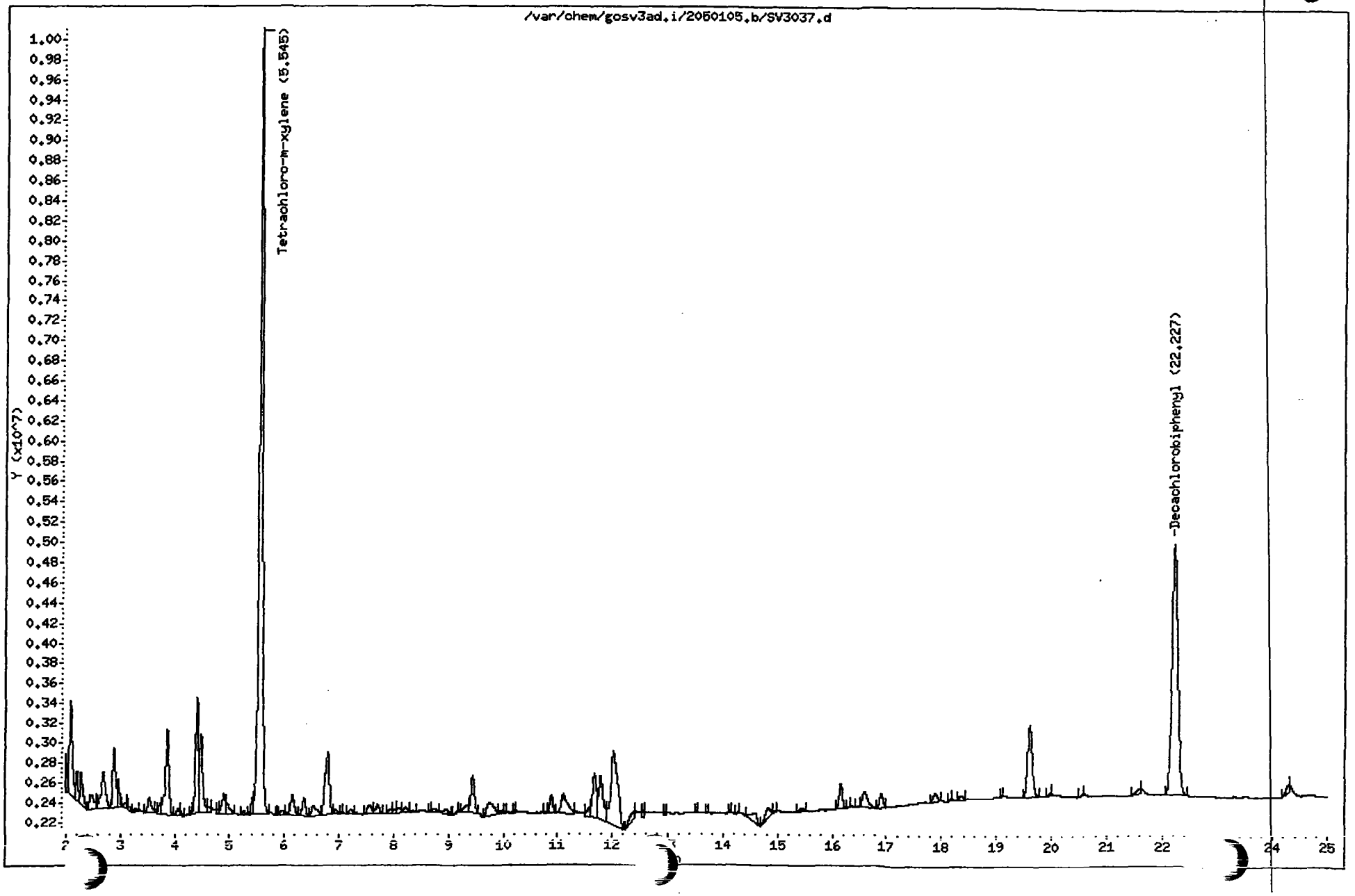
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.545	1.122	4.423	33548296	72.3401	0.072	80.00- 120.00	100.00	
$ 22 Decachlorobiphenyl					CAS #: 2051-24-3			
22.227	3.556	18.671	18819203	64.8541	0.065	80.00- 120.00	100.00	

Data File: /var/chem/gcsv3ad.i/2050105.b/SV3037.d
Date : 06-JAN-2005 05:18
Client ID: SKSW521012
Sample Info: 20412270712-1.0-GCSV"45XX"-204122707--et 1000 10
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv3ad.i
Operator: dlb
Column diameter: 0.53



000364

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 285484 Analytical Batch: 285975

Sample ID: SKSWEB1012

Contract:

SAS No.: SDG No.: 204122707

Lab Sample ID: 20412270713

Date Collected: 12/21/04 Time: 1425

Date Received: 12/27/04

Date Extracted: 12/27/04

Date Analyzed: 01/06/05 Time: 0548

Dilution Factor: 1 Analyst: DLB

Prep Method: OLM4.2 PEST/PCB

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B

Lab File ID: 2050105/SV3038

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.00402	J	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285996 Analytical Batch: 286009

Sample ID: SKS501012 (RE)
Contract:
SAS No.: SDG No.: 204122707
Lab Sample ID: 20412270727
Date Collected: 12/21/04 Time: 1234
Date Received: 12/27/04
Date Extracted: 01/03/05
Date Analyzed: 01/06/05 Time: 0747
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B

CONCENTRATION UNITS: ug/L

Lab File ID: 2050105/SV3042

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

UJ

5/24/05

Data File: /var/chem/gcsv3ad.i/2050105.b/SV3042.d
Report Date: 15-Feb-2005 13:56

GCAL, Inc.

Data file : /var/chem/gcsv3ad.i/2050105.b/SV3042.d
Lab Smp Id: 20412270727 Client Smp ID: SKS501012(RE)
Inj Date : 06-JAN-2005 07:47
Operator : dlb Inst ID: gcsv3ad.i
Smp Info : 20412270727-1.0-GCSV~45XX~-204122707--et 1000 10
Misc Info :
Comment :
Method : /var/chem/gcsv3ad.i/2050105.b/pestclp-f.m
Meth Date : 11-Feb-2005 15:56 dlb Quant Type: ESTD
Cal Date : 05-JAN-2005 18:26 Cal File: SV3015.d
Als bottle: 42
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

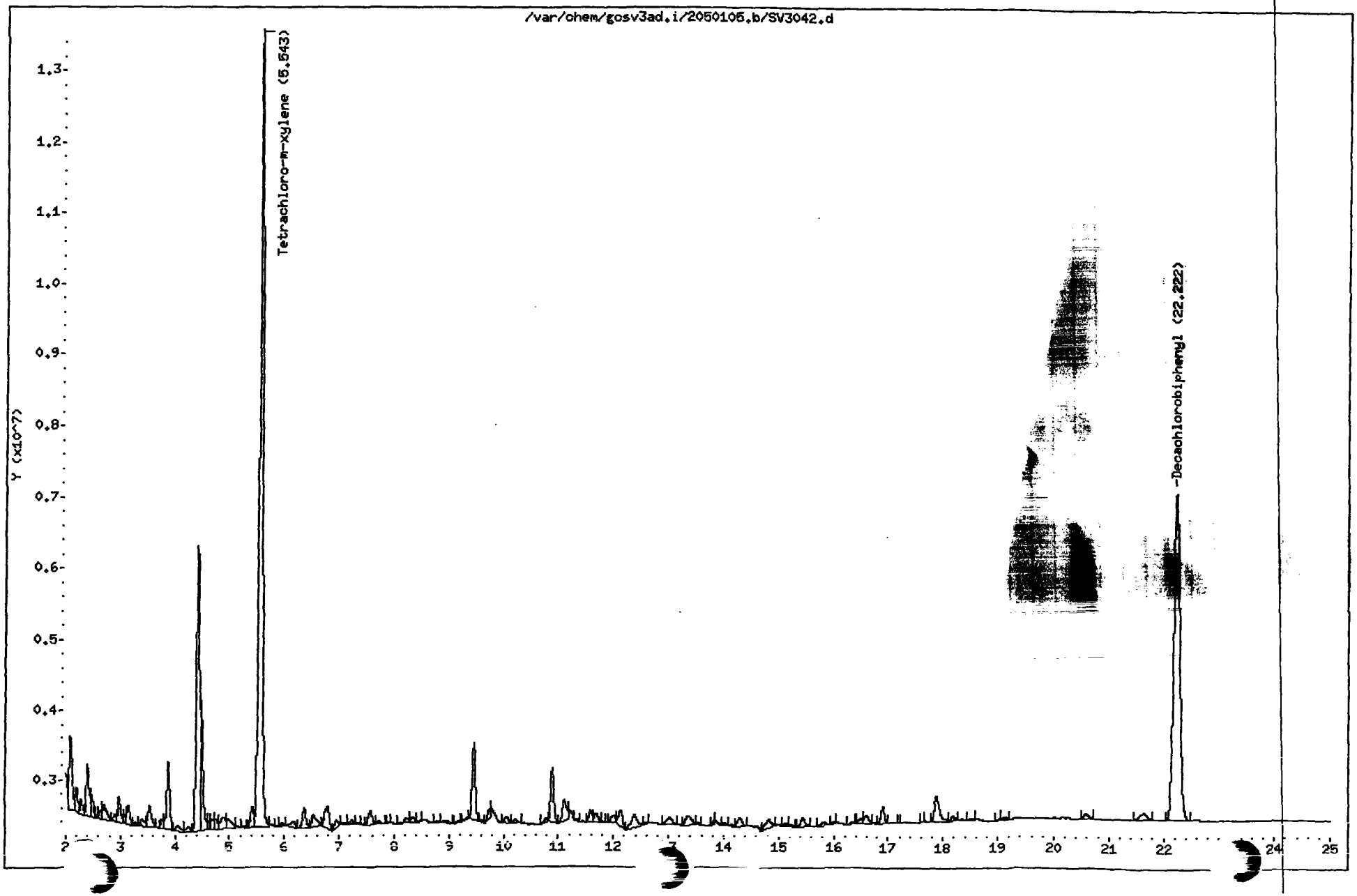
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.543	5.545	-0.002	46645790	100.582		80.00- 120.00	100.00(aA)	
$ 22 Decachlorobiphenyl					CAS #: 2051-24-3			
22.222	22.227	-0.005	34986162	120.568		80.00- 120.00	100.00(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gcsv3ad.i/2050105.b/SV3042.d
Date : 06-JAN-2005 07:47
Client ID: SKS501012(RE)
Sample Info: 20412270727-1.0-GCSV~45XX~-204122707--et 1000 10
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv3ad.i
Operator: dlb
Column diameter: 0.53



000372

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285996 Analytical Batch: 286009

Sample ID: SKGW301012 (RE)
Contract:
SAS No.: SDG No.: 204122707
Lab Sample ID: 20412270730
Date Collected: 12/20/04 Time: 1241
Date Received: 12/27/04
Date Extracted: 01/03/05
Date Analyzed: 01/06/05 Time: 0916
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B

CONCENTRATION UNITS: ug/L

Lab File ID: 2050105/SV3045

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

US

slwpb
mk

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 285996 Analytical Batch: 286009

CONCENTRATION UNITS: ug/L

Sample ID: SKSW511012 (RE)

Contract:

SAS No.: SDG No.: 204122707

Lab Sample ID: 20412270731

Date Collected: 12/21/04 Time: 1330

Date Received: 12/27/04

Date Extracted: 01/03/05

Date Analyzed: 01/06/05 Time: 0946

Dilution Factor: 1 Analyst: DLB

Prep Method: OLM4.2 PEST/PCB

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B

Lab File ID: 2050105/SV3046

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

45

5/24/06

Data File: /var/chem/gcsv3ad.i/2050105.b/SV3046.d
Report Date: 03-Mar-2005 11:48

GCAL, Inc.

Data file : /var/chem/gcsv3ad.i/2050105.b/SV3046.d
Lab Smp Id: 20412270731 Client Smp ID: SKSW511012(RE)
Inj Date : 06-JAN-2005 09:46
Operator : dlb Inst ID: gcsv3ad.i
Smp Info : 20412270731-1.0-GCSV~45XX~-204122707--et 1000 10
Misc Info :
Comment :
Method : /var/chem/gcsv3ad.i/2050105.b/pestclp-f.m
Meth Date : 24-Feb-2005 14:41 dlb Quant Type: ESTD
Cal Date : 05-JAN-2005 17:26 Cal File: SV3013.d
Als bottle: 46
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

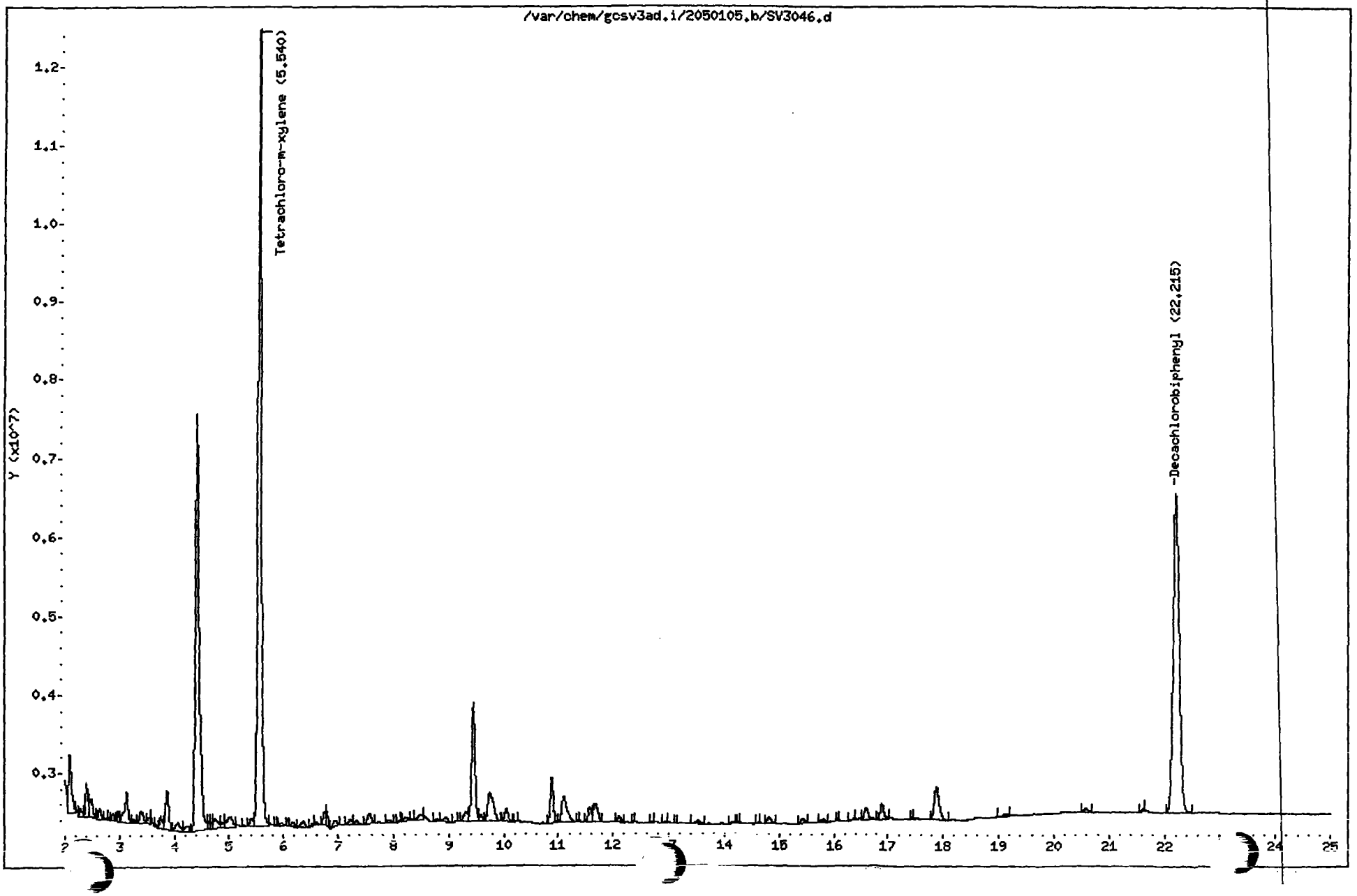
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.540	1.122	4.418	42318292	91.2508	0.091	80.00- 120.00	100.00	
$ 22 Decachlorobiphenyl					CAS #: 2051-24-3			
22.215	3.556	18.659	30995856	106.817	0.11	80.00- 120.00	100.00	

Data File: /var/chem/gcsv3ad.i/2050105.b/SV3046.d
Date : 06-JAN-2005 09:46
Client ID: SKSW511012(RE)
Sample Info: 20412270731-1.0-GCSV"45XX"-204122707--et 1000 10
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv3ad.i
Operator: dlb
Column diameter: 0.53



000378

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 285996 Analytical Batch: 286009

CONCENTRATION UNITS: ug/L

Sample ID: SKSW51FD1012 (RE)

Contract:

SAS No.: SDG No.: 204122707

Lab Sample ID: 20412270732

Date Collected: 12/21/04 Time: 1345

Date Received: 12/27/04

Date Extracted: 01/03/05

Date Analyzed: 01/06/05 Time: 1015

Dilution Factor: 1 Analyst: DLB

Prep Method: OLM4.2 PEST/PCB

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B

Lab File ID: 2050105/SV3047

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

US

5/24/

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285996 Analytical Batch: 286009

Sample ID: SKGW581012 (RE)
Contract:
SAS No.: SDG No.: 204122707
Lab Sample ID: 20412270733
Date Collected: 12/20/04 Time: 1125
Date Received: 12/27/04
Date Extracted: 01/03/05
Date Analyzed: 01/06/05 Time: 1045
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B
Lab File ID: 2050105/SV3048

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

Data File: /var/chem/gcsv3ad.i/2050105.b/SV3048.d
Report Date: 15-Feb-2005 13:57

GCAL, Inc.

Data file : /var/chem/gcsv3ad.i/2050105.b/SV3048.d
Lab Smp Id: 20412270733 Client Smp ID: SKGW581012(RE)
Inj Date : 06-JAN-2005 10:45
Operator : dlb Inst ID: gcsv3ad.i
Smp Info : 20412270733-1.0-GCSV~45XX~-204122707--et 1000 10
Misc Info :
Comment :
Method : /var/chem/gcsv3ad.i/2050105.b/pestclp-f.m
Meth Date : 11-Feb-2005 15:56 dlb Quant Type: ESTD
Cal Date : 05-JAN-2005 18:26 Cal File: SV3015.d
Als bottle: 48
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

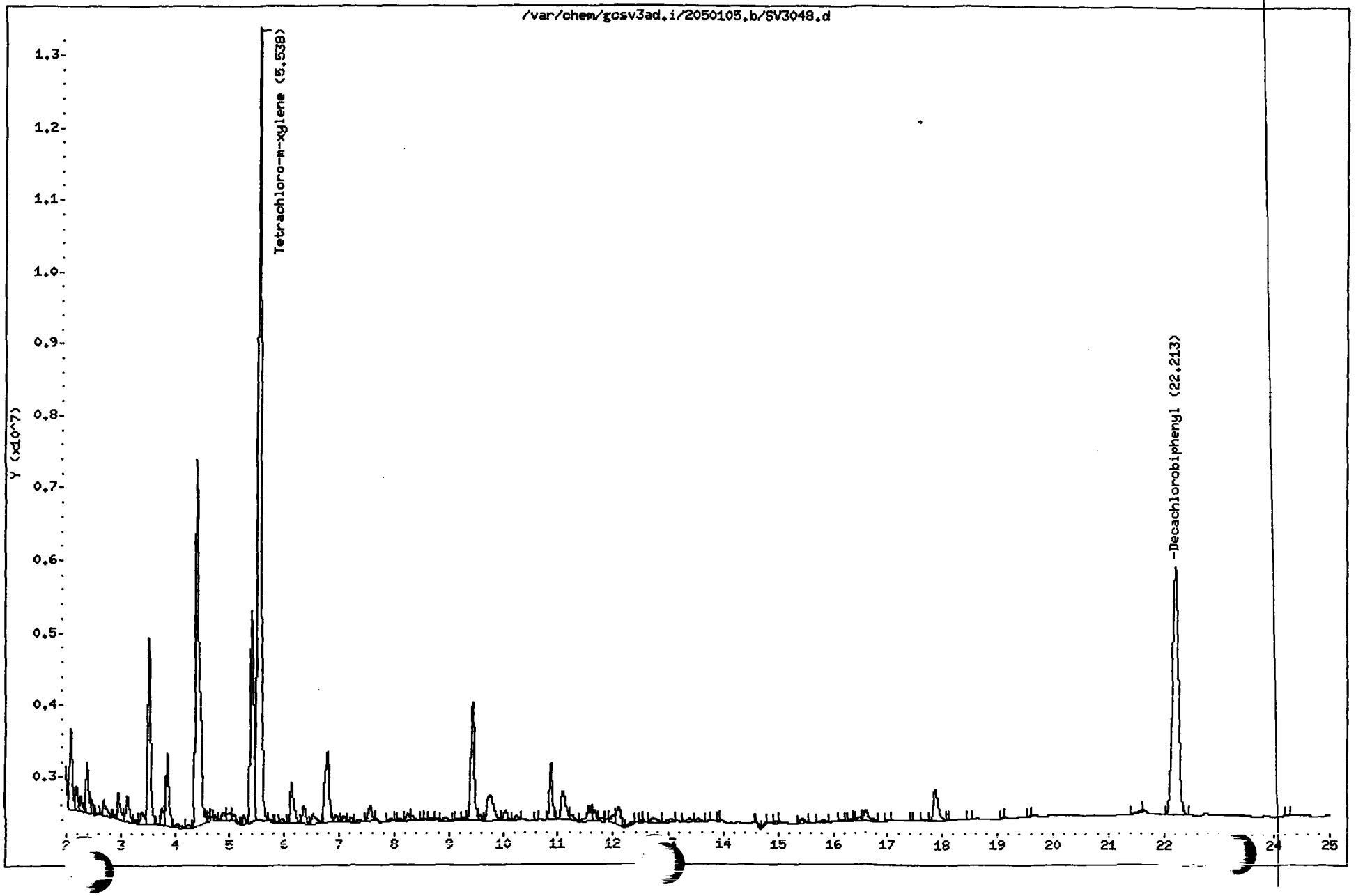
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.538	5.545	-0.007	46535762	100.345		80.00- 120.00	100.00(aA)	
$ 22 Decachlorobiphenyl					CAS #: 2051-24-3			
22.213	22.227	-0.014	26121148	90.0178		80.00- 120.00	100.00(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gcsv3ad.i/2050105.b/SV3048.d
Date : 06-JAN-2005 10:45
Client ID: SKGW581012(RE)
Sample Info: 20412270733-1.0-GCSV~45XX~-204122707--et 1000 10
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv3ad.i
Operator: dlb
Column diameter: 0.53



000384

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285996 Analytical Batch: 286009

Sample ID: SKGW58FD1012 (RE)
Contract:
SAS No.: SDG No.: 204122707
Lab Sample ID: 20412270734
Date Collected: 12/20/04 Time: 1142
Date Received: 12/27/04
Date Extracted: 01/03/05
Date Analyzed: 01/06/05 Time: 1115
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B

CONCENTRATION UNITS: ug/L

Lab File ID: 2050105/SV3049

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

US

<1/2 RL

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285996 Analytical Batch: 286009

Sample ID: SKGW261012 (RE)
Contract:
SAS No.: SDG No.: 204122707
Lab Sample ID: 20412270735
Date Collected: 12/21/04 Time: 0950
Date Received: 12/27/04
Date Extracted: 01/03/05
Date Analyzed: 01/06/05 Time: 1144
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B

CONCENTRATION UNITS: ug/L
Lab File ID: 2050105/SV3050

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

UJ

1/24/05 PB

GCAL, Inc.

Sample #1 : /var/chem/gcsv3ad.i/2050105.b/SV3050.d
Sample #2 : /var/chem/gcsv11.i/2050106.b/SV11038.d
Inj Date : 06-JAN-2005 11:44
Sample Info: 20412270735-1.0-GCSV~45XX~-204122707--et 1000 10
Misc Info :
Cal Date : 24-FEB-2005 14:41
Operator : dlb
Inst ID : gcsv3ad.i
Dil Factor : 1.000000

Method #1 : /var/chem/gcsv3ad.i/2050105.b/pestclp-f.m
Method #2 : /var/chem/gcsv11.i/2050106.b/pestclp-f.m
Sub List #1 : all.sub
Sub List #2 : all.sub
Col #1 Phase : RTX-1701-30M
Col #2 Phase : RTX-50 30M

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

000389

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 300 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285996 Analytical Batch: 286009

Sample ID: SKGW241012 (RE)
Contract:
SAS No.: SDG No.: 204122707
Lab Sample ID: 20412270736
Date Collected: 12/21/04 Time: 1037
Date Received: 12/27/04
Date Extracted: 01/03/05
Date Analyzed: 01/06/05 Time: 1549
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B
Lab File ID: 2050105/SV3055

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.333	U	0.00033	0.333
72-55-9	4,4'-DDE	0.333	U	0.00033	0.333
50-29-3	4,4'-DDT	0.333	U	0.00033	0.333
309-00-2	Aldrin	0.167	U	0.00033	0.167
12674-11-2	Aroclor-1016	3.33	U	0.00033	3.33
11104-28-2	Aroclor-1221	6.67	U	0.00033	6.67
11141-16-5	Aroclor-1232	3.33	U	0.00033	3.33
53469-21-9	Aroclor-1242	3.33	U	0.00033	3.33
12672-29-6	Aroclor-1248	3.33	U	0.00033	3.33
11097-69-1	Aroclor-1254	3.33	U	0.00033	3.33
11096-82-5	Aroclor-1260	3.33	U	0.00033	3.33
60-57-1	Dieldrin	0.333	U	0.00033	0.333
959-98-8	Endosulfan I	0.167	U	0.00033	0.167
33213-65-9	Endosulfan II	0.333	U	0.00033	0.333
1031-07-8	Endosulfan sulfate	0.333	U	0.00033	0.333
72-20-8	Endrin	0.333	U	0.00033	0.333
7421-93-4	Endrin aldehyde	0.333	U	0.00033	0.333
53494-70-5	Endrin ketone	0.333	U	0.00033	0.333
76-44-8	Heptachlor	0.167	U	0.00033	0.167
1024-57-3	Heptachlor epoxide	0.167	U	0.00033	0.167
72-43-5	Methoxychlor	1.67	U	0.00033	1.67
8001-35-2	Toxaphene	16.7	U	0.00033	16.7
319-84-6	alpha-BHC	0.167	U	0.00033	0.167
5103-71-9	alpha-Chlordane	0.167	U	0.00033	0.167
319-85-7	beta-BHC	0.167	U	0.00033	0.167
319-86-8	delta-BHC	0.167	U	0.00033	0.167
58-89-9	gamma-BHC (Lindane)	0.167	U	0.00033	0.167
5103-74-2	gamma-Chlordane	0.167	U	0.00033	0.167

US

1/24/05 pma

GCAL, Inc.

Sample #1 : /var/chem/gcsv3ad.i/2050105.b/SV3055.d
Sample #2 : /var/chem/gcsv11.i/2050106.b/SV11041.d
Inj Date : 06-JAN-2005 15:49
Sample Info: 20412270736-1.0-GCSV~45XX~-204122707--et 300 10
Misc Info :
Cal Date : 24-FEB-2005 14:41
Operator : dlb
Inst ID : gcsv3ad.i
Dil Factor : 1.000000

Method #1 : /var/chem/gcsv3ad.i/2050105.b/pestclp-f.m
Method #2 : /var/chem/gcsv11.i/2050106.b/pestclp-f.m
Sub List #1 : all.sub
Sub List #2 : all.sub
Col #1 Phase : RTX-1701-30M
Col #2 Phase : RTX-50-30M

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

000393

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285996 Analytical Batch: 286009

Sample ID: SKSW521012 (RE)
Contract:
SAS No.: SDG No.: 204122707
Lab Sample ID: 20412270737
Date Collected: 12/21/04 Time: 1355
Date Received: 12/27/04
Date Extracted: 01/03/05
Date Analyzed: 01/06/05 Time: 1619
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B

CONCENTRATION UNITS: ug/L
Lab File ID: 2050105/SV3056

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

UJ

7/14/06

Data File: /var/chem/gcsv3ad.i/2050105.b/SV3056.d
Report Date: 15-Feb-2005 13:57

GCAL, Inc.

Data file : /var/chem/gcsv3ad.i/2050105.b/SV3056.d
Lab Smp Id: 20412270737 Client Smp ID: SKSW521012(RE)
Inj Date : 06-JAN-2005 16:19
Operator : dlb Inst ID: gcsv3ad.i
Smp Info : 20412270737-1.0-GCSV~45XX~-204122707--et 1000 10
Misc Info :
Comment :
Method : /var/chem/gcsv3ad.i/2050105.b/pestclp-f.m
Meth Date : 11-Feb-2005 15:56 dlb Quant Type: ESTD
Cal Date : 05-JAN-2005 18:26 Cal File: SV3015.d
Als bottle: 56
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

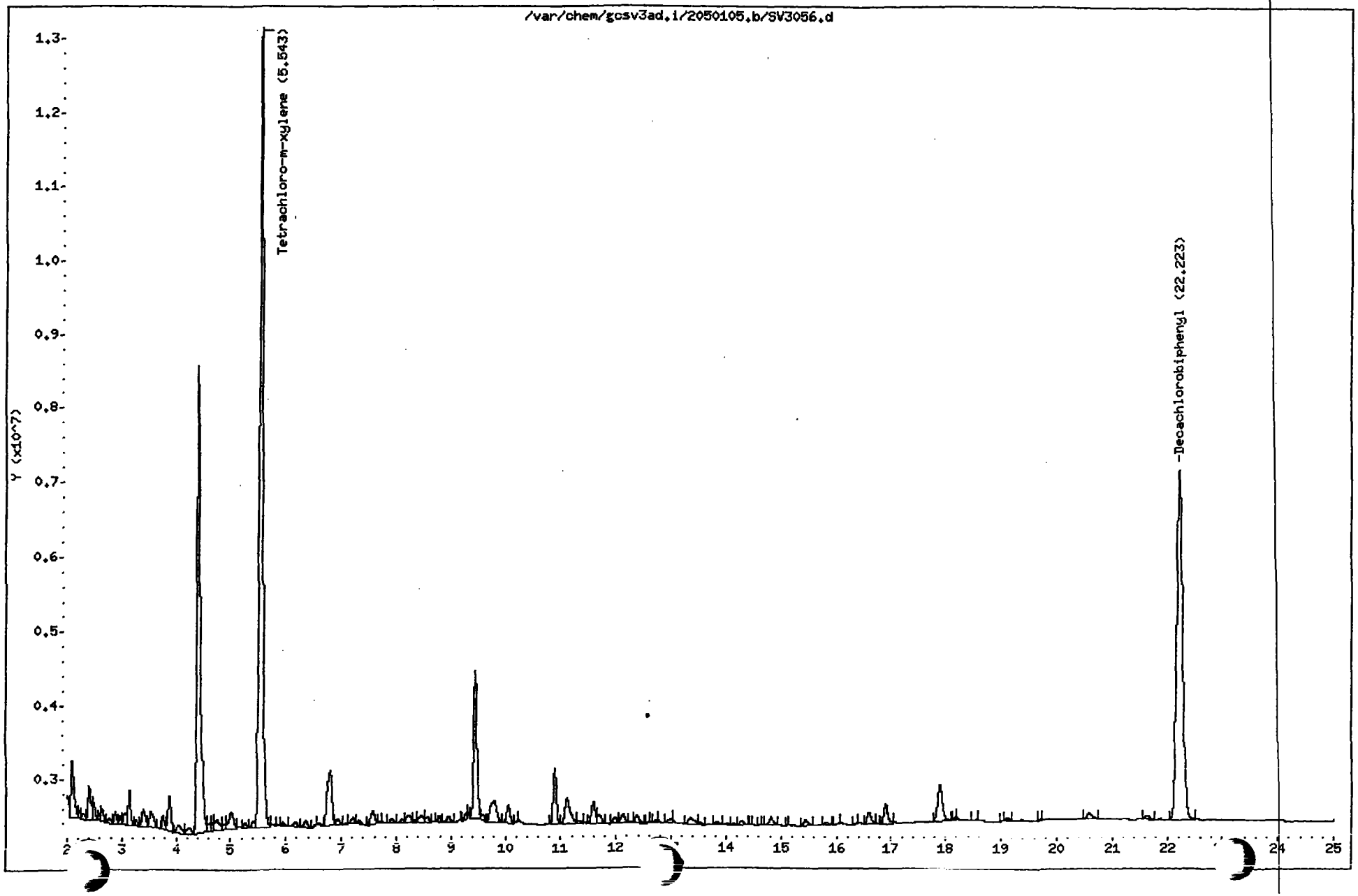
RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.543	5.545	-0.002	45492734	98.0959		80.00- 120.00	100.00(a)	
$ 22 Decachlorobiphenyl					CAS #: 2051-24-3			
22.223	22.227	-0.004	36192693	124.726		80.00- 120.00	100.00(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/gcsv3ad.i/2050105.b/SV3056.d
Date : 06-JAN-2005 16:19
Client ID: SKSW521012(RE)
Sample Info: 20412270737-1.0-GCSV"45XX"-204122707--et 1000 10
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv3ad.i
Operator: dlb
Column diameter: 0.53



000398

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 285996 Analytical Batch: 286009

CONCENTRATION UNITS: ug/L

Sample ID: SKSWEB1012 (RE)

Contract:

SAS No.: SDG No.: 204122707

Lab Sample ID: 20412270738

Date Collected: 12/21/04 Time: 1425

Date Received: 12/27/04

Date Extracted: 01/03/05

Date Analyzed: 01/06/05 Time: 1649

Dilution Factor: 1 Analyst: DLB

Prep Method: OLM4.2 PEST/PCB

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B

Lab File ID: 2050105/SV3057

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00010	0.100
72-55-9	4,4'-DDE	0.100	U	0.00010	0.100
50-29-3	4,4'-DDT	0.100	U	0.00010	0.100
309-00-2	Aldrin	0.050	U	0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.100	U	0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.100	U	0.00010	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00010	0.100
53494-70-5	Endrin ketone	0.100	U	0.00010	0.100
76-44-8	Heptachlor	0.050	U	0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

US

5/24/05

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285484 Analytical Batch: 285975

Sample ID: SKSW50MS1012
Contract:
SAS No.: SDG No.: 204122707
Lab Sample ID: 20412270702
Date Collected: 12/21/04 Time: 1247
Date Received: 12/27/04
Date Extracted: 12/27/04
Date Analyzed: 01/05/05 Time: 2322
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B
Lab File ID: 2050105/SV3025

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.013	J	0.00010	0.100
72-55-9	4,4'-DDE	0.043	J	0.00010	0.100
50-29-3	4,4'-DDT	0.443		0.00010	0.100
309-00-2	Aldrin	0.176		0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.381		0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.384		0.00010	0.100
7421-93-4	Endrin aldehyde	0.00977	J	0.00010	0.100
53494-70-5	Endrin ketone	0.00794	J	0.00010	0.100
76-44-8	Heptachlor	0.163		0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.141		0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

Data File: /var/chem/gcsv3ad.i/2050105.b/SV3025.d
Report Date: 15-Feb-2005 13:55

GCAL, Inc.

Data file : /var/chem/gcsv3ad.i/2050105.b/SV3025.d
Lab Smp Id: 20412270702 Client Smp ID: SKSW50MS1012
Inj Date : 05-JAN-2005 23:22
Operator : dlb Inst ID: gcsv3ad.i
Smp Info : 20412270702-1.0-GCSV~45XX~-204122707--et 1000 10
Misc Info :
Comment :
Method : /var/chem/gcsv3ad.i/2050105.b/pestclp-f.m
Meth Date : 11-Feb-2005 15:56 dlb Quant Type: ESTD
Cal Date : 05-JAN-2005 18:26 Cal File: SV3015.d
Als bottle: 25
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.547	5.545	0.002	31166920	67.2052		80.00- 120.00	100.00(a)	
4 gamma-BHC (Lindane)					CAS #: 58-89-9			
9.162	1.530	7.632	64844499	140.846		80.00- 120.00	100.00(aA)	
6 Heptachlor					CAS #: 76-44-8			
9.687	1.862	7.825	67569982	162.887		80.00- 120.00	100.00(aA)	
7 Aldrin					CAS #: 309-00-2			
10.428	2.636	7.792	68955326	176.238		80.00- 120.00	100.00(aAM)	
12 4,4'-DDE					CAS #: 72-55-9			
13.695	3.335	10.360	12094431	42.5555		80.00- 120.00	100.00(a)	

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285484 Analytical Batch: 285975

Sample ID: SKSW50MSD1012
Contract:
SAS No.: SDG No.: 204122707
Lab Sample ID: 20412270703
Date Collected: 12/21/04 Time: 1300
Date Received: 12/27/04
Date Extracted: 12/27/04
Date Analyzed: 01/05/05 Time: 2352
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B
Lab File ID: 2050105/SV3026

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.016	J	0.00010	0.100
72-55-9	4,4'-DDE	0.068	J	0.00010	0.100
50-29-3	4,4'-DDT	0.704		0.00010	0.100
309-00-2	Aldrin	0.265		0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.597		0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.604		0.00010	0.100
7421-93-4	Endrin aldehyde	0.014	J	0.00010	0.100
53494-70-5	Endrin ketone	0.013	J	0.00010	0.100
76-44-8	Heptachlor	0.241		0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.210		0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

Data File: /var/chem/gcsv3ad.i/2050105.b/SV3026.d
Report Date: 15-Feb-2005 13:55

GCAL, Inc.

Data file : /var/chem/gcsv3ad.i/2050105.b/SV3026.d
Lab Smp Id: 20412270703 Client Smp ID: SKSW50MSD1012
Inj Date : 05-JAN-2005 23:52
Operator : dlb Inst ID: gcsv3ad.i
Smp Info : 20412270703-1.0-GCSV~45XX~-204122707--et 1000 10
Misc Info :
Comment :
Method : /var/chem/gcsv3ad.i/2050105.b/pestclp-f.m
Meth Date : 11-Feb-2005 15:56 dlb Quant Type: ESTD
Cal Date : 05-JAN-2005 18:26 Cal File: SV3015.d
Als bottle: 26
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.547	5.545	0.002	43082064	92.8978		80.00- 120.00	100.00(a)	
4 gamma-BHC (Lindane)					CAS #: 58-89-9			
9.162	1.530	7.632	96660915	209.953		80.00- 120.00	100.00(aA)	
6 Heptachlor					CAS #: 76-44-8			
9.688	1.862	7.826	99808454	240.602		80.00- 120.00	100.00(aA)	
7 Aldrin					CAS #: 309-00-2			
10.428	2.636	7.792	103655152	264.925		80.00- 120.00	100.00(aA)	
12 4,4'-DDE					CAS #: 72-55-9			
13.695	3.335	10.360	19399176	68.2581		80.00- 120.00	100.00(a)	

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285996 Analytical Batch: 286009

Sample ID: SKS50MS1012 (RE)
Contract:
SAS No.: SDG No.: 204122707
Lab Sample ID: 20412270728
Date Collected: 12/21/04 Time: 1247
Date Received: 12/27/04
Date Extracted: 01/03/05
Date Analyzed: 01/06/05 Time: 0816
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B

CONCENTRATION UNITS: ug/L

Lab File ID: 2050105/SV3043

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.023	J	0.00010	0.100
72-55-9	4,4'-DDE	0.077	J	0.00010	0.100
50-29-3	4,4'-DDT	0.799		0.00010	0.100
309-00-2	Aldrin	0.292		0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.657		0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.701		0.00010	0.100
7421-93-4	Endrin aldehyde	0.012	J	0.00010	0.100
53494-70-5	Endrin ketone	0.00944	J	0.00010	0.100
76-44-8	Heptachlor	0.269		0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.223		0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

Data File: /var/chem/gcsv3ad.i/2050105.b/SV3043.d
Report Date: 15-Feb-2005 13:56

GCAL, Inc.

Data file : /var/chem/gcsv3ad.i/2050105.b/SV3043.d
Lab Smp Id: 20412270728 Client Smp ID: SKS50MS1012(RE)
Inj Date : 06-JAN-2005 08:16
Operator : dlb Inst ID: gcsv3ad.i
Smp Info : 20412270728-1.0-GCSV~45XX~-204122707--et 1000 10
Misc Info :
Comment :
Method : /var/chem/gcsv3ad.i/2050105.b/pestclp-f.m
Meth Date : 11-Feb-2005 15:56 dlb Quant Type: ESTD
Cal Date : 05-JAN-2005 18:26 Cal File: SV3015.d
Als bottle: 43
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.543	5.545	-0.002	44267425	95.4537		80.00- 120.00	100.00	(a)
4 gamma-BHC (Lindane)					CAS #: 58-89-9			
9.160	1.530	7.630	102544197	222.731		80.00- 120.00	100.00	(aA)
6 Heptachlor					CAS #: 76-44-8			
9.685	1.862	7.823	111532837	268.866		80.00- 120.00	100.00	(aA)
7 Aldrin					CAS #: 309-00-2			
10.425	2.636	7.789	114156345	291.764		80.00- 120.00	100.00	(aA)
12 4,4'-DDE					CAS #: 72-55-9			
13.692	3.335	10.357	21967615	77.2954		80.00- 120.00	100.00	(a)

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285996 Analytical Batch: 286009

Sample ID: SKS50MSD1012 (RE)
Contract:
SAS No.: SDG No.: 204122707
Lab Sample ID: 20412270729
Date Collected: 12/21/04 Time: 1300
Date Received: 12/27/04
Date Extracted: 01/03/05
Date Analyzed: 01/06/05 Time: 0846
Dilution Factor: 1 Analyst: DLB
Prep Method: OLM4.2 PEST/PCB
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3B

CONCENTRATION UNITS: ug/L
Lab File ID: 2050105/SV3044

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.023	J	0.00010	0.100
72-55-9	4,4'-DDE	0.078	J	0.00010	0.100
50-29-3	4,4'-DDT	0.819		0.00010	0.100
309-00-2	Aldrin	0.290		0.00010	0.050
12674-11-2	Aroclor-1016	1.00	U	0.00010	1.00
11104-28-2	Aroclor-1221	2.00	U	0.00010	2.00
11141-16-5	Aroclor-1232	1.00	U	0.00010	1.00
53469-21-9	Aroclor-1242	1.00	U	0.00010	1.00
12672-29-6	Aroclor-1248	1.00	U	0.00010	1.00
11097-69-1	Aroclor-1254	1.00	U	0.00010	1.00
11096-82-5	Aroclor-1260	1.00	U	0.00010	1.00
60-57-1	Dieldrin	0.661		0.00010	0.100
959-98-8	Endosulfan I	0.050	U	0.00010	0.050
33213-65-9	Endosulfan II	0.100	U	0.00010	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00010	0.100
72-20-8	Endrin	0.722		0.00010	0.100
7421-93-4	Endrin aldehyde	0.014	J	0.00010	0.100
53494-70-5	Endrin ketone	0.011	J	0.00010	0.100
76-44-8	Heptachlor	0.267		0.00010	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.00010	0.050
72-43-5	Methoxychlor	0.500	U	0.00010	0.500
8001-35-2	Toxaphene	5.00	U	0.00010	5.00
319-84-6	alpha-BHC	0.050	U	0.00010	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00010	0.050
319-85-7	beta-BHC	0.050	U	0.00010	0.050
319-86-8	delta-BHC	0.050	U	0.00010	0.050
58-89-9	gamma-BHC (Lindane)	0.221		0.00010	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.00010	0.050

Data File: /var/chem/gcsv3ad.i/2050105.b/SV3044.d
Report Date: 15-Feb-2005 13:56

GCAL, Inc.

Data file : /var/chem/gcsv3ad.i/2050105.b/SV3044.d
Lab Smp Id: 20412270729 Client Smp ID: SKS50MSD1012(RE)
Inj Date : 06-JAN-2005 08:46
Operator : dlb Inst ID: gcsv3ad.i
Smp Info : 20412270729-1.0-GCSV~45XX~-204122707--et 1000 10
Misc Info :
Comment :
Method : /var/chem/gcsv3ad.i/2050105.b/pestclp-f.m
Meth Date : 11-Feb-2005 15:56 dlb Quant Type: ESTD
Cal Date : 05-JAN-2005 18:26 Cal File: SV3015.d
Als bottle: 44
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO	REVIEW CODE
$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
5.543	5.545	-0.002	42173770	90.9392		80.00- 120.00	100.00(a)	
4 gamma-BHC (Lindane)					CAS #: 58-89-9			
9.157	1.530	7.627	101940627	221.420		80.00- 120.00	100.00(aA)	
6 Heptachlor					CAS #: 76-44-8			
9.682	1.862	7.820	110909495	267.363		80.00- 120.00	100.00(aA)	
7 Aldrin					CAS #: 309-00-2			
10.423	2.636	7.787	113481202	290.039		80.00- 120.00	100.00(aA)	
12 4,4'-DDE					CAS #: 72-55-9			
13.688	3.335	10.353	22090488	77.7277		80.00- 120.00	100.00(a)	

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

NELAP CERTIFICATE NUMBER 01955

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 01/13/2005

GCAL Report 204122707

Deliver To	Earth Tech 2373 Progress St Hebron, KY 41048 859-442-2300
Attn	Pat Higgins

Customer Earth Tech

Project Skinner Landfill

RESUBMITTED

000001

7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402 • Phone 225.769.4900 • Fax 225.767.5717

1/20/05 msk

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

SOW No.:

EPA Sample No	Lab Sample ID
SKSW501012	20412270701
SKSW50MS1012	20412270702
SKSW50DUP1012	20412270704
SKGW301012	20412270705
SKSW511012	20412270706
SKSW51FD1012	20412270707
SKGW581012	20412270708
SKGW58FD1012	20412270709
SKGW261012	20412270710
SKGW241012	20412270711
SKSW521012	20412270712
SKSWEB1012	20412270713
SKSW501012 (DISS)	20412270714
SKSW50MS1012 (DISS)	20412270715
SKSW50DUP1012 (DISS)	20412270716

Were ICP interelement corrections applied ? Yes / No YES

Were ICP background corrections applied ? Yes / No YES

If yes-were raw data generated before application of background corrections ? Yes / No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness for other than the conditions detailed above. Release of this data contained in this hardcopy data package and in the computer readable data submitted on the diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Mark Peterman Name: MARK PETERMAN

Date: 6/13/05 Title: METALS SUPERVISOR

RESUBMITTED

U.S. EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

SOW No.:

EPA Sample No	Lab Sample ID
SKGW301012 (DISS)	20412270717
SKSW511012 (DISS)	20412270718
SKSW51FD1012 (DISS)	20412270719
SKGW581012 (DISS)	20412270720
SKGW58FD1012 (DISS)	20412270721
SKGW261012 (DISS)	20412270722
SKGW241012 (DISS)	20412270723
SKSW521012 (DISS)	20412270724
SKSWEB1012 (DISS)	20412270725

Were ICP interelement corrections applied ? Yes / No YES

Were ICP background corrections applied ? Yes / No YES

If yes-were raw data generated before application of background corrections ? Yes / No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness for other than the conditions detailed above. Release of this data contained in this hardcopy data package and in the computer readable data submitted on the diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Mark Peterman Name: MARK PETERMAN

Date:: 6/13/05 Title: METALS SUPERVISOR

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW501012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix (soil / water) Water Lab Sample ID: 20412270701

Level: (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	18.2			P	
7440-39-3	Barium	39.1	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	106000			P	
7440-47-3	Chromium	2.2	B		P	
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	34.2	B		P	
7439-92-1	Lead	2.4	U	N	P	4J
7439-95-4	Magnesium	30600			P	
7439-96-5	Manganese	4.5	B		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	2150	B		P	
7782-49-2	Selenium	4.4	U		P	4J
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	44600			P	
7440-28-0	Thallium	7.4	B	N	P	J
7440-62-2	Vanadium	6.3	B		P	
7440-66-6	Zinc	0.7	U		P	
57-12-5	Cyanide	0.5	U		AS	

6/21/05
msk

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW50MS1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil / water) Water Lab Sample ID: 20412270702

Level: (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2000			P	
7440-36-0	Antimony	101			P	
7440-38-2	Arsenic	60.8			P	
7440-39-3	Barium	1990			P	
7440-41-7	Beryllium	50.6			P	
7440-43-9	Cadmium	47.4			P	
7440-70-2	Calcium	110000			P	
7440-47-3	Chromium	198			P	
7440-48-4	Cobalt	487			P	
7440-50-8	Copper	241			P	
7439-89-6	Iron	1040			P	
7439-92-1	Lead	14.4		N	P	J
7439-95-4	Magnesium	30800			P	
7439-96-5	Manganese	506			P	
7439-97-6	Mercury	4.9			AV	
7440-02-0	Nickel	489			P	
7440-09-7	Potassium	2130	B		P	
7782-49-2	Selenium	12.3			P	J
7440-22-4	Silver	47.4			P	
7440-23-5	Sodium	43800			P	
7440-28-0	Thallium	42.8		N	P	J
7440-62-2	Vanadium	504			P	
7440-66-6	Zinc	481			P	
57-12-5	Cyanide	99.4			AS	

6/21/05
msk

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW50DUP1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil / water) Water Lab Sample ID: 20412270704

Level: (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	4.5	B		P	
7440-38-2	Arsenic	16.4			P	
7440-39-3	Barium	39.3	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	109000			P	
7440-47-3	Chromium	2.0	B		P	
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	41.3	B		P	
7439-92-1	Lead	2.4	U	N	P	UJ
7439-95-4	Magnesium	31000			P	
7439-96-5	Manganese	4.4	B		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	2190	B		P	
7782-49-2	Selenium	4.4	U		P	UJ
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	45800			P	
7440-28-0	Thallium	7.0	B	N	P	J
7440-62-2	Vanadium	7.0	B		P	
7440-66-6	Zinc	0.7	U		P	
57-12-5	Cyanide	0.5	U		AS	

6/21/05
MSW

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000006

RESUBMITT

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW301012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil / water) Water Lab Sample ID: 20412270705

Level: (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	1560			P	
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	19.2			P	
7440-39-3	Barium	370			P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	67300			P	
7440-47-3	Chromium	5.9	B		P	
7440-48-4	Cobalt	1.0	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	3240			P	
7439-92-1	Lead	2.4	U	N	P	UJ
7439-95-4	Magnesium	30300			P	
7439-96-5	Manganese	70.7			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	3.5	B		P	
7440-09-7	Potassium	13900			P	
7782-49-2	Selenium	4.4	U		P	UJ
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	146000			P	
7440-28-0	Thallium	6.3	U	N	P	UJ
7440-62-2	Vanadium	9.5	B		P	
7440-66-6	Zinc	9.9	B		P	
57-12-5	Cyanide	0.5	U		AS	

6/21/05
MSU

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000007

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW511012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix (soil / water) Water Lab Sample ID: 20412270706

Level (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	19.4			P	
7440-39-3	Barium	39.7	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	110000			P	
7440-47-3	Chromium	1.7	B		P	
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	39.0	B		P	
7439-92-1	Lead	2.4	U	N	P	UJ
7439-95-4	Magnesium	32500			P	
7439-96-5	Manganese	6.7	B		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	B		P	
7440-09-7	Potassium	2130	B		P	
7782-49-2	Selenium	4.6	B		P	J
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	44900			P	
7440-28-0	Thallium	6.3	U	N	P	UJ
7440-62-2	Vanadium	6.8	B		P	
7440-66-6	Zinc	0.7	U		P	
57-12-5	Cyanide	0.5	U		AS	

Clarks
MSW

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000002

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW51FD1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix (soil / water) Water Lab Sample ID: 20412270707

Level: (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	7.3	B		P	
7440-38-2	Arsenic	19.3			P	
7440-39-3	Barium	40.0	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	107000			P	
7440-47-3	Chromium	2.0	B		P	
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	31.1	B		P	
7439-92-1	Lead	2.4	U	N	P	UJ
7439-95-4	Magnesium	31700			P	
7439-96-5	Manganese	6.8	B		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	2190	B		P	
7782-49-2	Selenium	4.4	U		P	UJ
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	46300			P	
7440-28-0	Thallium	6.7	B	N	P	J
7440-62-2	Vanadium	6.1	B		P	
7440-66-6	Zinc	0.7	U		P	
57-12-5	Cyanide	0.8	B		AS	

6/21/05
MSK

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000009

RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW581012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil / water) Water Lab Sample ID: 20412270708

Level: (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	23400			P	
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	60.7			P	
7440-39-3	Barium	486			P	
7440-41-7	Beryllium	1.4	B		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	441000			P	
7440-47-3	Chromium	54.2			P	
7440-48-4	Cobalt	27.4	B		P	
7440-50-8	Copper	56.0			P	
7439-89-6	Iron	61800			P	
7439-92-1	Lead	39.5		N	P	J
7439-95-4	Magnesium	88600			P	
7439-96-5	Manganese	2430			P	
7439-97-6	Mercury	0.1	B		AV	
7440-02-0	Nickel	63.0			P	
7440-09-7	Potassium	11800			P	
7782-49-2	Selenium	5.1			P	J
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	37200			P	
7440-28-0	Thallium	6.5	B	N	P	J
7440-62-2	Vanadium	63.2			P	
7440-66-6	Zinc	178			P	
57-12-5	Cyanide	0.5	U		AS	

6/21/05
MSU

Color Before: LT.BROWN Clarity Before: CLEAR Texture:

Color After: LT.BROWN Clarity After: CLEAR Artifacts:

Comments:

000010

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW58FD1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil / water) Water Lab Sample ID: 20412270709

Level: (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	28800			P	
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	70.0			P	
7440-39-3	Barium	564			P	
7440-41-7	Beryllium	1.6	B		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	571000			P	
7440-47-3	Chromium	78.0			P	
7440-48-4	Cobalt	34.9	B		P	
7440-50-8	Copper	63.5			P	
7439-89-6	Iron	79300			P	
7439-92-1	Lead	49.2		N	P	J
7439-95-4	Magnesium	95400			P	
7439-96-5	Manganese	3340			P	
7439-97-6	Mercury	0.2			AV	
7440-02-0	Nickel	81.1			P	
7440-09-7	Potassium	13300			P	
7782-49-2	Selenium	6.7			P	J
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	38100			P	
7440-28-0	Thallium	8.7	B	N	P	J
7440-62-2	Vanadium	76.7			P	
7440-66-6	Zinc	232			P	
57-12-5	Cyanide	0.5	U		AS	

6/21/05
MSL

Color Before: LT.BROWN Clarity Before: CLEAR Texture:

Color After: LT.BROWN Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW261012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil / water) Water Lab Sample ID: 20412270710

Level: (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	1490			P	
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	15.6			P	
7440-39-3	Barium	333			P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	76900			P	
7440-47-3	Chromium	9.1	B		P	
7440-48-4	Cobalt	2.9	B		P	
7440-50-8	Copper	5.1	B		P	
7439-89-6	Iron	3930			P	
7439-92-1	Lead	2.4	U	N	P	UJ
7439-95-4	Magnesium	38800			P	
7439-96-5	Manganese	159			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	6.5	B		P	
7440-09-7	Potassium	22300			P	
7782-49-2	Selenium	4.4	U		P	UJ
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	186000			P	
7440-28-0	Thallium	6.3	U	N	P	UJ
7440-62-2	Vanadium	10.4	B		P	
7440-66-6	Zinc	35.8			P	
57-12-5	Cyanide	0.5	U		AS	

6/21/05
MSK

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW241012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil / water) Water Lab Sample ID: 20412270711

Level: (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	32400			P	
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	78.3			P	
7440-39-3	Barium	209			P	
7440-41-7	Beryllium	1.5	B		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	788000			P	
7440-47-3	Chromium	52.2			P	
7440-48-4	Cobalt	33.9	B		P	
7440-50-8	Copper	43.6			P	
7439-89-6	Iron	71700			P	
7439-92-1	Lead	33.0		N	P	J
7439-95-4	Magnesium	76200			P	
7439-96-5	Manganese	3350			P	
7439-97-6	Mercury	0.1	B		AV	
7440-02-0	Nickel	71.2			P	
7440-09-7	Potassium	13000			P	
7782-49-2	Selenium	16.5			P	J
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	35600			P	
7440-28-0	Thallium	15.1		N	P	J
7440-62-2	Vanadium	79.7			P	
7440-66-6	Zinc	197			P	
57-12-5	Cyanide	0.5	U		AS	

6/21/05
MSU

Color Before: DK.BROWN Clarity Before: CLEAR Texture:

Color After: DK.BROWN Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW521012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix (soil / water) Water Lab Sample ID: 20412270712

Level (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	4.6	B		P	
7440-38-2	Arsenic	20.1			P	
7440-39-3	Barium	42.3	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	109000			P	
7440-47-3	Chromium	1.9	B		P	
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	55.9	B		P	
7439-92-1	Lead	2.4	U	N	P	US
7439-95-4	Magnesium	31100			P	
7439-96-5	Manganese	7.3	B		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	2210	B		P	
7782-49-2	Selenium	4.4	U		P	US
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	50300			P	
7440-28-0	Thallium	6.3	U	N	P	US
7440-62-2	Vanadium	6.9	B		P	
7440-66-6	Zinc	0.7	U		P	
57-12-5	Cyanide	0.5	U		AS	

6/21/05 mze

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWEB1012

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil / water) Water Lab Sample ID: 20412270713

Level: (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	5.4	U		P	
7440-39-3	Barium	0.3	U		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	B		P	
7440-70-2	Calcium	36.5	B		P	
7440-47-3	Chromium	1.5	U		P	
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	9.1	U		P	
7439-92-1	Lead	2.4	U	N	P	US
7439-95-4	Magnesium	66.9	U		P	
7439-96-5	Manganese	0.6	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	97.8	U		P	
7782-49-2	Selenium	4.4	U		P	US
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	340	U		P	
7440-28-0	Thallium	6.3	U	N	P	US
7440-62-2	Vanadium	1.1	U		P	
7440-66-6	Zinc	0.7	U		P	
57-12-5	Cyanide	0.5	U		AS	

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Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW501012 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix (soil / water) Water Lab Sample ID: 20412270714

Level: (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	13.1		N	P	J
7440-39-3	Barium	38.4	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	109000			P	
7440-47-3	Chromium	3.8	B		P	J
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	9.1	U		P	
7439-92-1	Lead	2.4	U		P	UJ
7439-95-4	Magnesium	30500			P	
7439-96-5	Manganese	2.8	B		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	2180	B		P	
7782-49-2	Selenium	7.9		N	P	J
7440-22-4	Silver	1.0	B		P	
7440-23-5	Sodium	45800			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	7.8	B		P	
7440-66-6	Zinc	0.7	U		P	

6/21/05
MSH

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW50MS1012 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil / water) Water Lab Sample ID: 20412270715

Level: (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2000			P	
7440-36-0	Antimony	110			P	
7440-38-2	Arsenic	67.9		N	P	J
7440-39-3	Barium	2080			P	
7440-41-7	Beryllium	53.7			P	
7440-43-9	Cadmium	50.2			P	
7440-70-2	Calcium	110000			P	
7440-47-3	Chromium	208			P	J
7440-48-4	Cobalt	508			P	
7440-50-8	Copper	253			P	
7439-89-6	Iron	993			P	
7439-92-1	Lead	17.7			P	J
7439-95-4	Magnesium	31800			P	
7439-96-5	Manganese	531			P	
7439-97-6	Mercury	5.3			AV	
7440-02-0	Nickel	509			P	
7440-09-7	Potassium	2180	B		P	
7782-49-2	Selenium	14.8		N	P	J
7440-22-4	Silver	51.6			P	
7440-23-5	Sodium	46700			P	
7440-28-0	Thallium	48.2			P	
7440-62-2	Vanadium	526			P	
7440-66-6	Zinc	503			P	

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[illegible]

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW50DUP1012 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix (soil / water) Water Lab Sample ID: 20412270716

Level (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	4.7	B		P	
7440-38-2	Arsenic	9.0	B	N	P	J
7440-39-3	Barium	38.8	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	106000			P	
7440-47-3	Chromium	4.2	B		P	J
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	9.1	U		P	
7439-92-1	Lead	2.4	U		P	UJ
7439-95-4	Magnesium	32000			P	
7439-96-5	Manganese	2.7	B		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	2060	B		P	
7782-49-2	Selenium	7.0		N	P	J
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	42900			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	8.0	B		P	
7440-66-6	Zinc	0.7	U		P	

6/21/05
MSA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW301012 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil / water) Water Lab Sample ID: 20412270717

Level: (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	10.9		N	P	J
7440-39-3	Barium	367			P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	61500			P	
7440-47-3	Chromium	3.0	B		P	J
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	376			P	
7439-92-1	Lead	2.4	U		P	UJ
7439-95-4	Magnesium	29600			P	
7439-96-5	Manganese	27.2			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	13500			P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	143000			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	7.8	B		P	
7440-66-6	Zinc	0.7	U		P	

6/21/05
MR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW511012 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix (soil / water) Water Lab Sample ID: 20412270718

Level: (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	12.1		N	P	J
7440-39-3	Barium	39.1	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	110000			P	
7440-47-3	Chromium	1.5	B		P	J
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	9.1	U		P	
7439-92-1	Lead	2.4	U		P	UJ
7439-95-4	Magnesium	32000			P	
7439-96-5	Manganese	5.6	B		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	2160	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	46700			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	7.0	B		P	
7440-66-6	Zinc	0.7	U		P	

6/21/05
MM

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000020

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW51FD1012 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil / water) Water Lab Sample ID: 20412270719

Level: (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	5.4	B		P	
7440-38-2	Arsenic	19.6		N	P	J
7440-39-3	Barium	39.3	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	115000			P	
7440-47-3	Chromium	2.9	B		P	J
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	9.1	U		P	
7439-92-1	Lead	2.4	U		P	UJ
7439-95-4	Magnesium	32600			P	
7439-96-5	Manganese	5.8	B		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	2260	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	48300			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	7.6	B		P	
7440-66-6	Zinc	0.7	U		P	

6/21/05
MJM

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW581012 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix (soil / water) Water Lab Sample ID: 20412270720

Level (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	17.7		N	P	J
7440-39-3	Barium	162	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	96200			P	
7440-47-3	Chromium	1.8	B		P	J
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	1290			P	
7439-92-1	Lead	2.4	U		P	UJ
7439-95-4	Magnesium	31900			P	
7439-96-5	Manganese	398			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	B		P	
7440-09-7	Potassium	4820	B		P	
7782-49-2	Selenium	5.3		N	P	J
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	32900			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	7.4	B		P	
7440-66-6	Zinc	0.7	U		P	

c 12/1-5
MK

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW58FD1012 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil / water) Water Lab Sample ID: 20412270721

Level: (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	21.8		N	P	J
7440-39-3	Barium	203			P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	101000			P	
7440-47-3	Chromium	2.0	B		P	J
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	3000			P	
7439-92-1	Lead	2.4	U		P	UJ
7439-95-4	Magnesium	35100			P	
7439-96-5	Manganese	345			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	5460			P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	35600			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	7.4	B		P	
7440-66-6	Zinc	0.7	U		P	

6/4/05
mn

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW261012 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil / water) Water Lab Sample ID: 20412270722

Level: (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	13.5		N	P	J
7440-39-3	Barium	314			P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	72900			P	
7440-47-3	Chromium	4.4	B		P	J
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	65.0	B		P	
7439-92-1	Lead	2.4	U		P	UJ
7439-95-4	Magnesium	41300			P	
7439-96-5	Manganese	99.7			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.3	B		P	
7440-09-7	Potassium	20400			P	
7782-49-2	Selenium	6.8		N	P	J
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	169000			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	8.1	B		P	
7440-66-6	Zinc	0.7	U		P	

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AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000024

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW241012 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil / water) Water Lab Sample ID: 20412270723

Level: (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	4.6	B		P	
7440-38-2	Arsenic	16.7		N	P	J
7440-39-3	Barium	66.2	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	99500			P	
7440-47-3	Chromium	1.9	B		P	J
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	674			P	
7439-92-1	Lead	2.4	U		P	UJ
7439-95-4	Magnesium	24100			P	
7439-96-5	Manganese	175			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	3260	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	31600			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	6.0	B		P	
7440-66-6	Zinc	0.7	U		P	

6/21/05
MSM

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW521012 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix (soil / water) Water Lab Sample ID: 20412270724

Level (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	20.1		N	P	J
7440-39-3	Barium	40.4	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	112000			P	
7440-47-3	Chromium	1.6	B		P	J
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	9.1	U		P	
7439-92-1	Lead	2.4	U		P	UJ
7439-95-4	Magnesium	32100			P	
7439-96-5	Manganese	5.0	B		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	2100	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	49700			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	8.0	B		P	
7440-66-6	Zinc	0.7	U		P	

6/21/05
MA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWEB1012 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Matrix: (soil / water) Water Lab Sample ID: 20412270725

Level: (low / med) Date Received: 12/27/04

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	55.3	U		P	
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	5.4	U	N	P	
7440-39-3	Barium	0.3	U		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	33.6	B		P	
7440-47-3	Chromium	1.5	U		P	UJ
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	9.1	U		P	
7439-92-1	Lead	2.4	U		P	UJ
7439-95-4	Magnesium	66.9	U		P	
7439-96-5	Manganese	0.6	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	97.8	U		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	340	U		P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	1.1	U		P	
7440-66-6	Zinc	0.7	U		P	

6/21/05
msa

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000027

RESUBMITTED

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122707

Initial Calibration Source: 125-3-1 EXAXOL/125-31-2 CPI/125-33-1 CPI/EXAXOL/125-38-2 CPI

Continuing Calibration Source: 125-31-1 EXAXOL/125-34-1 INORGANIC VENTURES

Concentration Units: ug/L	Initial Calibration			Continuing Calibration Verification					
Analyte	True	Found	%R (1)	True	Found	%R 1	Found	%R 2	M
Aluminum	10000	9850	99	5000	5060	101	5090	102	P
Antimony	1000	966	97	500	485	97	480	96	P
Arsenic	1000	974	97	500	491	98	497	99	P
Barium	1000	1010	101	500	501	100	496	99	P
Beryllium	1000	976	98	500	499	100	505	101	P
Cadmium	1000	978	98	500	495	99	491	98	P
Calcium	10000	9610	96	5000	5100	102	5180	104	P
Chromium	1000	986	99	500	499	100	495	99	P
Cobalt	1000	966	97	500	495	99	501	100	P
Copper	1000	988	99	500	505	101	494	99	P
Iron	10000	9460	95	5000	5050	101	5070	101	P
Lead	1000	984	98	500	504	101	510	102	P
Magnesium	10000	9850	99	5000	5140	103	5050	101	P
Manganese	1000	990	99	500	505	101	503	101	P
Mercury	5.0	5.2	105	5.0	4.9	98	4.9	97	AV
Nickel	1000	984	98	500	493	99	497	99	P
Potassium	10000	9640	96	10000	9560	96	9810	98	P
Selenium	1000	968	97	500	492	98	495	99	P
Silver	1000	1000	100	500	505	101	493	99	P
Sodium	10000	9990	100	20000	19500	98	20600	103	P
Thallium	1000	994	99	500	510	102	507	101	P
Vanadium	1000	983	98	500	499	100	494	99	P
Zinc	1000	962	96	500	491	98	489	98	P
Cyanide	200	196	98	100	93	93	94	94	AS

(1) Control Limits: Mercury 80-120; other metals 90-110; Cyanide 85-115

RESUBMITTED

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only			
Earth Tech	4342	204122707	1-10-05
Client Name	Client #	Workorder #	Due Date

Report to:
Client: Earth Tech
Address: 2373 Progress Pt
Hebron, KY 41048
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

Bill to:
Client:
Address: Bill to:
Contact: Glenn Springs
Phone: Contract
Fax:

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill-4th Qtr 04
Sampled By: Pat Higgins / Karen Batey

Analytical Requests & Method: Volatiles

Lab use only:
Custody Seal
used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 6

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Volatiles	Remarks:	Lab ID 12/27
W	12-21-04	1300		X	SKSW50MSD1012	HCL	3	X	Refer to Table 7	-3
W	12-21-04	1355		X	SKSW521012	HCL	3	X	(TCL) and Table 8	-12
W	12-21-04	1425		X	SKSW EB1012	HCL	3	X	(TAC) of the	-13
W	12-20-04	1241		X	SKGW301012	HCL	3	X	Final Oa'm	-5
W	12-20-04	1125		X	SKGW581012	HCL	3	X	Plan for the	-8
W	12-20-04	1142		X	SKGW58FD1012	HCL	3	X	list of analytes	-9
W	12-21-04	1330		X	SKSW511012	HCL	3	X		-6
W	12-21-04	1345		X	SKSW51FD1012	HCL	3	X		-7
W	12-21-04	1234		X	SKSW501012	HCL	3	X		-1
W	12-21-04	1247		X	SKSW50MS1012	HCL	3	X		-2
W	12-21-04	0950		X	SKGW261012	HCL	3	X		-10
W	12-21-04	1037		X	SKGW241012	HCL	3	X		-11

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Karen Batey	Fed ex	12-22-04	1800
Fed ex 7914 2718 6466	[signature]	12-27-04	1045

Note: samples sent via fed ex
Standard turnaround

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

000907

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Earth Tech	4347	204122707	1-10-05

Report to:
Client: Earth Tech
Address: 2373 Progress Dr
Hebron, KY 41048
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

Bill to:
Client:
Address: Bill to:
Contact: Glenn Springs
Phone: Contract
Fax:

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill 4th Qtr 04
Sampled By: Pat Higgins / Karen Batey

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Semi-Volatiles	Pesticides	PCB's	Total Metals	Dissolved Metals	Cyanide					Remarks:	Lab ID
W	12-22-04	1234		X	SKSW501012	Various	7				-27			7.55		-14		Refer to Table 7	12/21 -1
W	12-22-04	1247		X	SKSW50M81012	Various	7				-28					-15		(TCL) and Table 8 (TAC) of the Final O&M Plan for the list of analytes	2

Lab use only:
Custody Seal
used ☒ yes ☐ no
in tact ☒ yes ☐ no
Temperature °C 6

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Karen Batey	Fed ex	12-22-04	1800
Fedex 7014 2718 6442	[signature]	12-27-04	1045

Note: Samples sent via fed ex
Standard turnaround

By submitting these samples, you agree to the terms and

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L-06 11/98

806000

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only			
Earth Tech	4342	204122707	1-10-05
Client Name	Client #	Workorder #	Due Date

Report to:
Client: Earth Tech
Address: 2373 Progress Dr
Hebron, KY 41048
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

Bill to:
Client:
Address: Bill to:
Contact: Glenn Springs Contract
Phone:
Fax:

P.O. Number: 412280.01
Project Name/Number: Skinner Landfill - 4th Qtr 04
Sampled By: Pat Higgins / Karen Batey

Analytical Requests & Method

Lab use only:
Custody Seal used ☒ yes ☐ no
in tact ☐ yes ☐ no
Temperature °C 6

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Semi-Volatiles	Pesticides	PCB's	Total Metals	Dissolved Metals	Cyanide			D; SS	Remarks:	Lab ID
W	12-20-04	1300		X	SKSW50MSD1012	Various	7	X	X	X	X	X	X	-29	-16		Refer to Table 7	12/27 -3-4
W	12-20-04	1211		X	SKGW30 1012	Various	7	1	1	1	1	1	1	-30	-17		(TCL) and Table 8	-5
																	(TAL) of the	
																	Final O&M	
																	Plan for the	
																	list of analytes	

606000

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Karen Batey	FedEx	12-22-04	1800
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
FedEx 7914 2716 6385	[illegible]	12-27-04	1048
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: samples sent via fedex standard turnaround

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only			
Earth Tech	4342	204122707	1-10-05
Client Name	Client #	Workorder #	Due Date

Report to:
Client: Earth Tech
Address: 2373 Progress Dr
Hebron, KY 41048
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

Bill to:
Client:
Address: Bill to:
Contact: Glenn Springs
Phone: Contract
Fax:

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill - 4th Qtr 04
Sampled By: Pat Higgins / Karen Batey

Lab use only:
Custody Seal
used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 6

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Semi-Volatiles	Pesticides	PCBs	Total Metals	Dissolved Metals	Cyanide			Diss		Remarks:	Lab ID 12/27
W	12-21-04	1330		X	SKSW511012	Various	7	X	X	X	X	X	X	-31	-		18	Refer to Table 7	-6
W	12-21-04	1345		X	SKSW51FD1012	Various	7	|	|	|	|	|	|	-32	-		19	(TCL) and	-7
																		Table 8 (TAL)	
																		of the Final	
																		O&M Plan	
																		for the list	
																		of analytes	

000910

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Karen Batey	FedEx	12-22-04	1800
Fedex 7915 7186536	McMillan	12-27-04	1055
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: Samples sent via FedEx Standard Turnaround

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only			
Earth Tech	4342	204122707	1-10-05
Client Name	Client #	Workorder #	Due Date

Report to:
Client: Earth Tech
Address: 2373 Progress Dr
Hebron, KY 41048
Contact: Pat Higgins
Phone: 859-942-2300
Fax: 859-442-2311

Bill to:
Client:
Address: Bill to:
Contact: Glenn Springs
Phone: Contract
Fax:

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill - 4th Qtr 04
Sampled By: Pat Higgins / Karen Batey

Analytical Requests & Method

Lab use only:
Custody Seal
used ☑ yes ☐ no
in tact ☐ yes ☐ no
Temperature °C 6

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Semi-Volatiles	Pesticides	PCB's	Total Metals	Dissolved Metals	Cyanide		Diss	Remarks:	Lab ID 12/27
W	12-20-04	1125		X	SKGW581012	various	7	X	X	X	X	X	X	-33	-20	Refer to	-8
W	12-20-04	1142		X	SKGW58FD1012	Various	7	|	|	|	|	|	|	-34	-21	Table 7 (TCL)	-9
																and Table 8 (TAC)	
																of the Final	
																OAM Plan	
																for the list	
																of analytes	

000911

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Karen Batey	Fedex	12-22-04	1800
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Fedex 7914 2918 6558	[signature]	12-27-04	1044
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: Samples sent via fedex
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CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Workorder #	Due Date
Earth Tech	4342	204122707	1-10-05

Report to:
Client: Earth Tech
Address: 2373 Progress Dr
Hebron, KY 41048
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

Bill to:
Client:
Address:
Bill to:
Contact:
Phone: Glenn Springs
Fax: Contract

P.O. Number: 54280.01
Project Name/Number: -3V inner landfill -4th Qtr 04
Sampled By: Pat Higgins / Karen Batey

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Semi-Volatiles	Pesticides	PCB's	Total Metals	Dissolved metal	Cyanide		DSS	Remarks:	Lab ID
W	12210	0950		X	SKGW261012	Various	7	X	X	X	X	X	X	-25	-22	Refer to Table	12/27
W	12210	1037		X	SKGW241012	Various	7	X	|	|	|	|	|	-36	-23	7 (TLL) and	-10
																Table 8 (TAZ)	-11
																of the final	
																sym Plan for	
																the list of	
																analytes	

Lab use only:
Custody Seal
used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 6

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☑ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Karen Batey	Fed Ex	12-22-04	1800
Fedex 7914 0716 6499	[signature]	12-27-04	1045
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: samples sent via fed ex
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000912

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7979 GSR Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only			
Earth Tech	4332	204122707	1-10-05
Client Name	Client #	Workorder #	Due Date

Report to:
Client: Earth Tech
Address: 2373 Progress Dr
Hebron, KY 41048
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

Bill to:
Client:
Address: Bill to:
Contact: Glenn Springs
Phone: Contract
Fax:

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill - 4th Qtr 04
Sampled By: Pat Higgins / Karen Batey

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Semi-volatiles	Pesticides	PCB's	Total metals	Dissolved metals	Cyanide			Diss	Remarks:	Lab ID
W	12/20/04	1355		X	SKSW521012	various	7	X	X	X	X	X	X	-37	-24		Refer to Table 7	-12
W	12/20/04	1427		X	SKSWEB1012	various	7	1	1	1	1	1	1	-38	-25		(TCL) and	-13
																	table 8 (TAC)	
																	of the Final	
																	Sampler	
																	for the list of	
																	analytes	

Lab use only:
Custody Seal used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 6

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☐ Standard ☐ Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Karen Batey	FedEx	12-22-04	1800
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
FedEx 7914 2118 0514	[illegible]	12-27-04	1045
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: samples sent via fedex
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PRESERVATION CHECKLIST / COOLER RECEIPT

Gulf Coast Analytical Laboratories, Inc.

WO:	204122707	**Type:**	M
Desc:		**Report:**	REVIEW_RPT
Work ID:	Skinner Landfill	**Status:**	WP
Project Seq:	26319	**Created:**	12/27/2004 11:18
Client:	4342 - Earth Tech	**QA:**	
Profile:	33490 - Skinner - Skinner Landfill	**PO:**	54280.01

WORKORDER SAMPLES

Container ID	Type	Preservative	pH PRESERVATIVE A	pH PRESERVATIVE U	pH PRESERVATIVE N/A	VOA HEADSPACE A	VOA HEADSPACE U	VOA HEADSPACE N/A	CONTAINER CONDITION
20412270701-1	40	HCL+STS			✓	✓			OK
20412270701-2	40	HCL+STS			✓	✓			OK
20412270701-3	LA	NONE			X			X	OK
20412270701-4	LA	NONE			X			X	OK
20412270701-5	LA	NONE			X			X	OK
20412270701-6	OC	HNO3	✓					X	OK
20412270701-7	LA	NaOH	✓					X	OK

Container ID	Type	Preservative	pH PRESERVATIVE A	pH PRESERVATIVE U	pH PRESERVATIVE N/A	VOA HEADSPACE A	VOA HEADSPACE U	VOA HEADSPACE N/A	CONTAINER CONDITION
20412270702-1	40	HCL+STS			✓	✓			OK
20412270702-2	40	HCL+STS			✓	✓			OK
20412270702-3	LA	NONE			X			X	OK
20412270702-4	LA	NONE			X			X	OK
20412270702-5	LA	NONE			X			X	OK
20412270702-6	LA	NONE			X			X	OK
20412270702-7	OC	HNO3	✓					X	OK
20412270702-8	LA	NaOH	✓					X	OK

Container ID	Type	Preservative	pH PRESERVATIVE A	pH PRESERVATIVE U	pH PRESERVATIVE N/A	VOA HEADSPACE A	VOA HEADSPACE U	VOA HEADSPACE N/A	CONTAINER CONDITION
20412270703-1	40	HCL+STS			✓	✓			OK
20412270703-2	40	HCL+STS			✓	✓			OK
20412270703-3	LA	NONE			X			X	OK
20412270703-4	LA	NONE			X			X	OK
20412270703-5	LA	NONE			X			X	OK
20412270703-6	LA	NONE			X			X	OK

Container ID	Type	Preservative	pH PRESERVATIVE A	pH PRESERVATIVE U	pH PRESERVATIVE N/A	VOA HEADSPACE A	VOA HEADSPACE U	VOA HEADSPACE N/A	CONTAINER CONDITION
20412270704-1	OC	HNO3	✓					X	OK
20412270704-2	LA	NaOH	✓					X	OK