N61165.AR.005650
CNC CHARLESTON
5090.3a

LETTER REPORT FOR DPT GROUNDWATER RESULTS FOR ZONE C FUEL DISTRIBUTION SYSTEM AREA 16 CNC CHARLESTON SC

10/17/2006

CH2M JONES LLC

CH2M-JONES, LLC.

CH2MHILL
Constructors, Inc.

Mr. Darryl F. Gates
CH2M-Jones
1330 Kilo Street
North Charleston, SC 29405

RECEIVED
OCT 19 2006
Water Monitoring, Assessment & Protection Division

October 17, 2006

Mr. Michael A. Bishop
SCDHEC
2600 Bull Street
Columbia, SC 29201-1708

Subject: DPT Groundwater Results
Fuel Dist. System, Area 16, Zone C
Site ID. No. 02098
Charleston Naval Complex

Dear Mr. Bishop:

CH2M-Jones has completed the requested groundwater sampling for the above-referenced site. CH2M-Jones installed one DPT temporary monitoring point on January 25, 2006, at the location depicted on **Figure 1**. The DPT screen interval was situated from 6.0 to 11.0 feet below land surface, which intersected the shallow groundwater table. A DPT well log is presented as **Figure 2**. The sample was collected using a low-flow peristaltic pump and Teflon tubing. The DPT screen interval was purged in an effort to remove suspended particles and decrease turbidity; however, the purging effort did not improve turbidity to a measurable quality of less than 1000 NTUs. The sample was collected and analyzed for volatile organic compounds and semi-volatile organic compounds using EPA Methods 8260B and 8270C, respectively. Analytical groundwater results indicated that BTEX and PAH concentrations were either below the RBSLs or below the detection limit of the laboratory. Groundwater data are presented on **Table 1**. The laboratory data sheets are presented in **Appendix A**

A quality assurance validation of the ground data was performed by a CH2M HILL chemist. DPT sample F16GP001R1, submitted to the laboratory for analysis of SVOCs required a tenfold dilution because, according to the laboratory analyst, the "extracts were dark and viscous". After taking into consideration the initial extraction volume, final volume and the dilution factor, the Practical Quantitation Limits (PQLs) for many of the Polynuclear Aromatic Hydrocarbons (PAHs) were 97.1 ug/L, which is above the action limit of 25 ug/L. As part of the standard data evaluation and reporting protocol, the laboratory evaluates any possible detection between the Method Detection Limit (MDL), and the PQL. If the presence is indicated above the MDL yet below the PQL, the laboratory will assign a concentration, but qualify the numeric value "J", as estimated.

Three chemicals received "J" flags: Acenaphthene and Chrysene, both reported at 4.5 J ug/L, and Fluoranthene, reported at 5.6 J ug/L. Although the PQLs were above the action limit, the MDLs were low enough to allow evaluation of a compound's absence/presence below the action limit. **Table 2** reflects the Adjusted MDL and PQL of each compound for this sample. Based on these analyses, no PAHs appear to be present above their respective action level.

With respect to the elevated concentration of arsenic previously detected in site monitoring wells, the issue was addressed with the Bureau of Land and Waste Management within a letter from Mr. Dean Williamson/CH2M HILL to Mr. David Scaturo/SCDHEC on September 3, 2003. The information provide to SCDHEC by CH2M HILL prompted Ms. Jo Cherie Overcash/SCDHEC to issue an internal memorandum to Mr. Jerry Stamps/SCDHEC on April 30, 2003, recommending that the site be granted a status of No Further Action, under the RCRA Corrective Action program. On the same date, Mr. Jerry Stamps issued a letter to the U.S Navy granting the site a No Further Action status. Copies of the correspondence mentioned above are presented as **Appendix B**.

Based on the criteria outlined herein, CH2M HILL recommends a No Further Action status for this site. Additionally, we respectfully request permission to properly abandon site monitoring wells FDSGW16A, FDSGW16B and FDSGW16C. If you have any questions, comments or require additional information, please do not hesitate to contact us.

Sincerely,

CH2M HILL

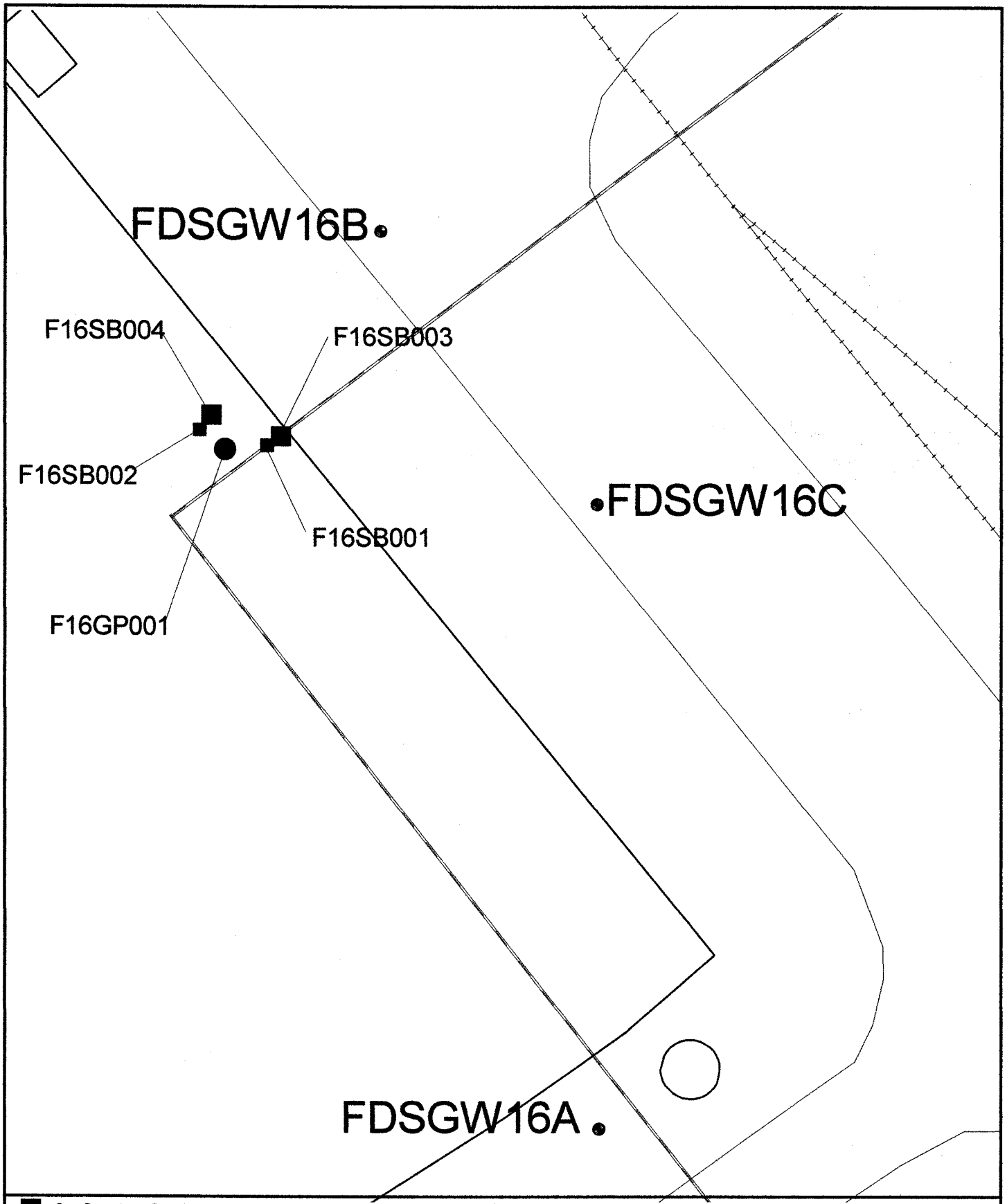
Darryl F. Gates

Darryl F Gates
Environmental Scientist

Enclosures

Cc:

Gary Foster/CH2M HILL/ATL
Dean Williamson/CH2M HILL/GNV



Confirmatory Soil Samples 4-29-05
Soil Samples 12-18-02
Monitoring Well
DPT Location 1-25-2006
Fence
Roads - Lines
FDS Fuel Line

N

0 20 40 Feet

1 inch = 41 feet

Figure 1
Site Map
Area 16, Zone F
Charleston Naval Complex

File Path: C:\18gis\CNC\cnc-egis.apr, Date: 16 Mar 2005 15:20, User: AOCONOR, EGIS: Charleston Naval Complex - Figure 2 Monitoring Well Locations

CH2MHILL

PROJECT NUMBER	DPT NUMBER	Figure 2
258814	F16GP001	page 1 of 1

DPT SOIL SAMPLE LOG

PROJECT : Charleston Naval Complex, Charleston, SC **LOCATION :** Area 16 **NORTHING:** 2318667.49

ELEVATION : NA **DRILLING CONTRACTOR :** S&ME License # 1667 **EASTING:** 374128.13

DRILLING METHOD AND EQUIPMENT USED : Truck-mounted DPT rig Direct-Push Sampling, 3- ft screen

START 1/26/2006 **END:** 1/26/2006 **LOGGER :** Andrew O'Conor/CH2M -Jones

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	WATER QUALITY DESCRIPTION PURGE VOLUME COLOR / ODOR	COMMENTS LABORATORY TEST PARAMATERS ABANDONMENT METHOD
5			
10			
	11 - 15'	1.5 gallons purged Muddy / No odor	Collected VOC, SVOC water samples. DPT borehole was abandoned by force injection of portland cement combined with 5% bentonite powder from the bottom of the borehole to the surface.
15		End of Boring	
20			
25			
30			

Table 1

Area 16 VOC / SVOC Groudwater Analytical Results

DPT Sample ID F16GP001R1 Collected 1/26/2006

Compound	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	Total PAHs
Risk-Based	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Screening Levels	5	1,000	700	10,000	25	25
F16GP001R1	<1.0	<1.0	<1.0	<1.0	<2.91*	4.5J

* - Adjusted Method Detection Limit

J - Estimated Concentration

Table 2

Area 16 SVOC Adjusted Method Detection and Practical Quantitation Limits

DPT Sample ID F16GP001R1 Collected 1/26/2006

Compound	Method Detection Limit	Units	Lab Qualifier	Adjusted Method Detection Limit	Adjusted Practical Quantitation Limit
2,4,5-Trichlorophenol	485	ug/L	U	9.71	485
2,4,6-Trichlorophenol	97.1	ug/L	U	19.4	97.1
2,4-Dichlorophenol	97.1	ug/L	U	19.4	97.1
2,4-Dimethylphenol	97.1	ug/L	U	19.4	97.1
2,4-Dinitrophenol	485	ug/L	U	97.1	485
2,4-Dinitrotoluene	97.1	ug/L	U	19.4	97.1
2,6-Dinitrotoluene	97.1	ug/L	U	19.4	97.1
2-Chloronaphthalene	97.1	ug/L	U	3.4	97.1
2-Chlorophenol	97.1	ug/L	U	19.4	97.1
2-Methylnaphthalene	97.1	ug/L	U	2.91	97.1
2-Methylphenol (o-Cresol)	97.1	ug/L	U	19.4	97.1
2-Nitroaniline	485	ug/L	U	19.4	485
2-Nitrophenol	97.1	ug/L	U	19.4	97.1
3,3'-Dichlorobenzidine	194	ug/L	U	9.71	194
3-Methylphenol/4-Methylphenol (mp-Cresol)	97.1	ug/L	U	29.1	97.1
3-Nitroaniline	485	ug/L	U	19.4	485
4,6-Dinitro-2-methylphenol	485	ug/L	U	29.1	485
4-Bromophenyl Phenyl Ether	97.1	ug/L	U	19.4	97.1
4-Chloro-3-methylphenol	97.1	ug/L	U	19.4	97.1
4-Chloroaniline	97.1	ug/L	U	19.4	97.1
4-Chlorophenyl Phenyl Ether	97.1	ug/L	U	19.4	97.1
4-Nitroaniline	485	ug/L	U	29.1	485
4-Nitrophenol	485	ug/L	U	19.4	485
Acenaphthene	4.5	ug/L	J	3.01	97.1
Acenaphthylene	97.1	ug/L	U	1.94	97.1
Anthracene	97.1	ug/L	U	1.94	97.1
Benzo(a)Anthracene	97.1	ug/L	U	1.94	97.1
Benzo(a)Pyrene	97.1	ug/L	U	1.94	97.1
bis(2-Chloroethoxy) Methane	97.1	ug/L	U	29.1	97.1
bis(2-Chloroethyl) ether (2-Chloroethyl Ether)	97.1	ug/L	U	19.4	97.1
Bis(2-Chloroisopropyl)Ether	97.1	ug/L	U	19.4	97.1
bis(2-Ethylhexyl) Phthalate	97.1	ug/L	U	19.4	97.1
Carbazole	97.1	ug/L	U	1.94	97.1
Chrysene	4.5	ug/L	J	1.94	97.1
Dibenz(a,h)anthracene	97.1	ug/L	U	1.94	97.1
Dibenzofuran	97.1	ug/L	U	19.4	97.1
Diethyl Phthalate	97.1	ug/L	U	19.4	97.1
Dimethyl Phthalate	97.1	ug/L	U	19.4	97.1
Di-n-butyl Phthalate	97.1	ug/L	U	19.4	97.1

U - Undetected by Laboratory

J - Estimated Concentration

ug/L - Micrograms per liter

Table 2 (Cont.)

Area 16 SVOC Adjusted Method Detection and Practical Quantitation Limits

DPT Sample ID F16GP001R1 Collected 1/26/2006

Compound	Method Detection Limit	Units	Lab Qualifier	Adjusted Method Detection Limit	Adjusted Practical QuantitationLimit
Di-n-octylphthalate	97.1	ug/L	U	29.1	97.1
Diphenylamine	97.1	ug/L	U	29.1	97.1
Fluoranthene	5.6	ug/L	J	1.94	97.1
Hexachlorocyclopentadiene	97.1	ug/L	U	19.4	97.1
Hexachloroethane	97.1	ug/L	U	19.4	97.1
Indeno(1,2,3-c,d)pyrene	97.1	ug/L	U	1.94	97.1
Isophorone	97.1	ug/L	U	19.4	97.1
Naphthalene	97.1	ug/L	U	2.91	97.1
Nitrobenzene	97.1	ug/L	U	29.1	97.1
N-Nitrosodi-n-propylamine	97.1	ug/L	U	19.4	97.1
Pentachlorophenol	485	ug/L	U	19.4	485
Phenanthrene	97.1	ug/L	U	1.94	97.1
Phenol	97.1	ug/L	U	9.71	97.1
Pyrene	14.4	ug/L	J	2.91	97.1

U - Undetected by Laboratory

J - Estimated Concentration

ug/L - Micrograms per liter

Appendix A

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GENERAL NARRATIVE

CASE NARRATIVE
For
CH2M Hill
Charleston Naval Complex
SDG# 154608

February 14, 2006

Laboratory Identification:

General Engineering Laboratories, LLC

Mailing Address:

P.O. Box 30712
Charleston, South Carolina 29417

Express Mail Delivery and Shipping Address:

2040 Savage Road
Charleston, South Carolina 29407

Telephone Number:

(843) 556-8171

Summary:

Sample receipt

The samples from CH2M arrived at General Engineering Laboratories, LLC (GEL) located in Charleston, South Carolina on January 26, 2006 for environmental analyses. The samples were delivered with chain of custody documentation and signatures.

Sample Identification The laboratory received the following samples:

Laboratory Identification	Sample Description
154608001	F16GP001R1
154608002	F16EP001R1
154608003	F16TP001R1

Case Narrative

Sample analyses were conducted using methodology as outlined in General Engineering Laboratories (GEL). Any technical or administrative problems during analysis, data review, or reductions are listed in the individual analytical case narratives.

Data Package:

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Qualifier Definitions, and data from the following fraction: Volatile Analysis.

David Selzer
Project Manager

CHAIN OF CUSTODY AND SUPPORTING DOCUMENTATION

CH2M HILL Chain of Custody/ Laboratory Analysis Form

COC Tracking #: **ZFF16-012006-01** page 1 of 2

Laboratory: GEL	Site Name: Zone F, FDS Area 16 UST SCDHEC No. 02098
Project Name: Charleston Navy Complex	
Project Number:	TAT: STANDARD
Project Manager:	QA Level: 2
Address: GNV: 3011 SW Williston Rd., Gainesville, FL 32605	
ATL: 115 Perimeter Center Place NE, Suite 700, Atlanta, GA 30346-1278	
Send Report To: see last page of COC	EDD: CNC format

Lab Batch/SDG:

154608%

Sample ID	Station ID	Sample Description	Depth Begin	Depth End	Date & Time Collected	Matrix	# of containers	VOCs (SW8260) 3 - 40ml vial, HC	SVOCs (SW8270C) 2 - 1L amber	Metals (SW6010B/7000) 1 - 0.5L HDPE, HNO3	Dissolved Lead (SW6010B) * 1 - 0.5L HDPE	VOCs (SW8260) 3 - 5g Encons & 1 - 2oz jar	SVOCs (SW8270C) 1 - 4 ounce jar	Total Arsenic & Lead (SW6010B) 1 - 4 ounce jar				Comments
F16GP001R1	FF16GP001				1-26-06 / 1055	WG	5	X	X									
F16EP001R1	FF16EP001	EB			1-26-06 / 1115	WQ	5	X	X									
F16TP001R1	FF16TP001	TB			lab supplied	WQ	3	X										
																		EB
																		UST
																		DPT sample

Sampled By: Andrew O'Conor Date/Time: 1-25-06 Relinquished by: [signature] Date/Time: 1-26-06 / 1305

Additional Samplers:

Received By Lab: [signature] Date/Time: 1/26/06 1305 Relinquished by: Date/Time

Received By: Date/Time Shipped Via: UPS FedEx Hand Other Tracking#:

Remarks: Temperature:

Receipt Exceptions:

CNC VOC list
CNC SVOC list

Reports
Herb Kelly/GNV - 1 hardcopy, 1 CD
Darryl Gates/Andrew O'Conor

Herb Kelly
3011 SW Williston Rd
Gainesville, FL 32608
Ph: (352) 335 - 5877 ext.2572
Fax: (352) 271 - 4811

Darryl Gates/Andrew O'Conor
1330 Kilo St.
North Charleston, SC 29405
Ph: 843-740-9033
Fax: 843-740-9135

Receipt Exceptions: _____

SAMPLE RECEIPT & REVIEW FORM

PM use only

Client: CH2M HILL	SDG/ARCOC/Work Order:
Date Received: 1/26/06	PM(A) Review (ensure non-conforming items are resolved prior to signing):
Received By: [illegible]	

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within (4 +/- 2 C)? Record preservation method.	✓			Circle Coolant: ice bags blue ice dry ice none other describe) 2°C
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Sample ID's, containers affected and observed pH:
6	VOA vials free of headspace (defined as < 6mm bubble)?	✓			Sample ID's and containers affected:
7	Are Encore containers present? (If yes, immediately deliver to VOA laboratory)			✓	
8	Samples received within holding time?	✓			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?			✓	Sample ID's affected: Time on FT6EP001R1 says 1055/not 1115
11	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	✓			
14	Air Bill ,Tracking #'s, & Additional Comments	Courier			

	Suspected Hazard Information	Non-Regulated	Regulated	High Level	RSO RAD Receipt # _____ *If > x2 area background is observed on samples identified as "non-regulated/non-radioactive", contact the Radiation Safety group for further investigation.
A	Radiological Classification?	✓			Maximum Counts Observed*: CPM 20
B	PCB Regulated?	✓			Comments:
C	Shipped as DOT Hazardous Material? If yes, contact Waste Manager or ESH Manager.	✓			Hazard Class Shipped: UN#:

PM (or PMA) review of Hazard classification: _____ Initials _____ Date:

DATA REVIEW QUALIFIER FLAG DEFINITION SHEET

General Engineering Laboratories, LLC

DATA QUALIFIERS FOR ORGANIC ANALYSES

Data Qualifiers used on Form 1s or Certificates of Analysis (COA) follow the specifications set forth in the technical specifications of the most current CLP Statement of Work and are defined as follows:

Section	Explanation	Location
A	The TIC is suspected aldol-condensation product.	COA, Form 1, and EDD
B	Analyte was detected in the associated method blank as well as in the sample.	COA, Form 1, and EDD
C	Pesticide analyte has been confirmed by GC/MS.	COA, Form 1, and EDD
D	Analyte(s) quantified in an analysis performed at a secondary dilution factor.	COA, Form 1, and EDD
E	Identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.	COA, Form 1, and EDD
J	This flag indicates an estimated value concerning either, (1) estimating a concentration for tentatively identified compounds (TICs), or (2) analyte detected at a level less than the RDL or PQL and greater than or equal to the MDL.	COA, Form 1, and EDD
N	Presumptive evidence based upon a mass spectral library search to make a tentative identification of the analyte.	COA, Form 1, and EDD
NJ	Analyte has been tentatively identified and the associated numerical value is estimated based upon 1:1 response factor to the nearest eluting internal standard.	COA, Form 1, and EDD
P	- Pesticide/PCB target analyte that is greater than 25% difference for the detected concentrations between the two GC columns. - HPLC target analyte that is greater than 40% difference for the detected concentrations between detectors or columns.	Form 1 and EDD
U	Compound analyzed for but not detected (sample quantitation limit has been adjusted to reflect dilutions and percent moisture).	COA, Form 1, and EDD
X	Other reporting flag as defined in report narrative.	COA, Form 1, and EDD
**	Laboratory Control Sample recovery outside of acceptance limit.	QC Summary Report

All surrogate recoveries and acceptance ranges are reported at the bottom of Form 2 or COA.

GC/MS VOLATILE ANALYSIS

GC/MS Volatile Organics
CH2M Hill (CH2M)
SDG 154608

Method/Analysis Information

Procedure:	Volatile Organic Compounds (VOC) by Gas Chromatography/Mass Spectrometer
Analytical Method:	SW846 8260B
Prep Method:	SW846 5030B
Analytical Batch Number:	502350

Sample Analysis

The following client and quality control samples were analyzed to complete this SDG using the methods referenced in the Analysis Information section:

Sample ID	Client ID
154608001	F16GP001R1
154608002	F16EP001R1
154608003	F16TP001R1
1201029481	Method Blank (MB)
1201029484	Laboratory Control Sample (LCS)
1201029482	154608001(F16GP001R1) Matrix Spike (MS)
1201029483	154608001(F16GP001R1) Matrix Spike Duplicate (MSD)

Preparation/Analytical Method Verification

SOP Reference
Procedure for preparation, analysis and reporting of analytical data are controlled by General Engineering Laboratories, LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-038 REV# 9.

Calibration Information
Due to the limited capacity of software all of the current initial calibration files are not displayed here. If necessary, a calibration history will be inserted in the package prior to the appropriate Form 6.

Initial Calibration
All initial calibration requirements have been met for this sample delivery groups (SDG). A second source initial calibration verification (ICV) was included in the standard section directly behind the initial calibration.

Continuing Calibration Verification Requirements
All associated calibration verification standard(s) (ICV or CCV) met the acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement
Target analytes were detected in the blank below the reporting limit.

Surrogate Recoveries
Samples 1201029482 (MS), 154608002 (F16EP001R1) and 154608003 (F16TP001R1) failed surrogate recoveries according to the Ch2M limits. However, the recoveries were within the GEL SPC limits. See NCR 290228.

Laboratory Control Sample (LCS) Recovery
The LCS spike recoveries met the acceptance limits.

QC Sample Designation
Sample 154608001 (F16GP001R1) was designated for spike analysis in this SDG.

Matrix Spike (MS) Recovery Statement
The MS recoveries for this SDG were within the required acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement
The MSD recoveries for this SDG were within the required acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement
The RPD(s) between the MS and MSD met the acceptance limits.

Internal Standard (ISTD) Acceptance
The internal standard responses, in all samples and quality control samples, met the required acceptance criteria.

Technical Information

Holding Time Specifications
GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection or sample receipt. Those holding times expressed in hours are calculated in the ALPHALIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Sample Preservation and Integrity
All samples met the sample preservation and integrity requirements.

Preparation/Analytical Method Verification
All procedures were performed as stated in the SOP.

Sample Dilutions
The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis
Re-analyses were not required for samples in this SDG except for dilutions and/or confirmations.

Miscellaneous Information

Electronic Package Comment

The following package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory is developing systems to eventually generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative of each electronic package will indicate the analyst, reviewer, and report specialist names associated with the generation of the data and package. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Nonconformance (NCR) Documentation
NCR # 290228 was generated for this SDG.

Manual Integrations
Data files associated with the initial calibration, continuing calibration check, and samples did not require manual integrations.

TIC Comment
Tentatively identified compounds (TIC) were required for this SDG.

Additional Comments
The samples in this SDG were scanned into custody in LIMS. However, the analyst did maintain custody during analysis. See NCR 290228.

System Configuration

The Volatile-GC/MS analysis was performed on a Volatile Organic Analysis by Gas Chromatography/Mass Spectroscopy.

Instrument ID	System Configuration	Column ID	Column Description	P & T Trap
VOA1.I	HP6890/HP5973	RESTEK	RTX-Volatiles, 30m x 0.25 mm, 1.0um	Trap 10

Certification Statement

When the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Reviewer: Erin Haubert Date: 2/15/06

Roadmap for CH2M 154608 VOA

This roadmap was analyzed by John Bell on 02-09-2006, 16:22.
This roadmap was reviewed by on 02-10-2006, 09:01.
This roadmap was packaged by Erin Haubert on 02-15-2006, 14:04.
This roadmap was validated by Erin Haubert on 02-15-2006, 14:04.

Sample

exclude	manual	datafile	smpid	clientid	injdate	injtime	sublist	dilution	comment
■	N	/chem/VOA1.i/020706v1.b/1w235.d	154608001	F16GP001R1	07-FEB-2006	22:12	154608.sub	1	
■	N	/chem/VOA1.i/020706v1.b/1w236.d	154608002	F16EP001R1	07-FEB-2006	22:40	154608.sub	1	
■	N	/chem/VOA1.i/020706v1.b/1w237.d	154608003	F16TP001R1	07-FEB-2006	23:08	154608.sub	1	
□	N	/chem/VOA1.i/020906v1.b/1w408.d	154608003	F16TP001R1	09-FEB-2006	12:49	154608.sub	1	
□	N	/chem/VOA1.i/020906v1.b/1w409.d	154608002	F16EP001R1	09-FEB-2006	13:17	154608.sub	1	
■	N	/chem/VOA1.i/020906v1.b/1w410.d	154608001	F16GP001R1	09-FEB-2006	13:45	154608.sub	1	
□	N	/chem/VOA1.i/020906v1.b/1w413.d	154608001	F16GP001R1	09-FEB-2006	15:11	154608.sub	1	

QC Sample

exclude	manual	datafile	smpid	clientid	sampletype	injdate	injtime	sublist	dilution	comment
□	N	/chem/VOA1.i/020906v1.b/1w405CH2M.d	1201029484	VBLK01LCS	lcs	09-FEB-2006	10:46	154608.sub	1	
□	N	/chem/VOA1.i/020906v1.b/1w407.d	1201029481	VBLK01	mb	09-FEB-2006	11:41	154608.sub	1	
□	N	/chem/VOA1.i/020906v1.b/1w410.d	1201029482	F16GP001R1MS	ms	09-FEB-2006	13:45	154608.sub	1	
□	N	/chem/VOA1.i/020906v1.b/1w411.d	1201029483	F16GP001R1MSD	msd	09-FEB-2006	14:13	154608.sub	1	

QUALITY CONTROL SUMMARY

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

	EPA SAMPLE NO.	SMC1 (DBF) #	SMC2 (TOL) #	SMC3 (BFB) #	OTHER	TOT OUT
01	VBLK01LCS	104	110	109		0
02	VBLK01	106	109	111		0
03	F16TP001R1	107	112*	111		1
04	F16EP001R1	106	112*	109		1
05	F16GP001R1MS	105	111*	110		1
06	F16GP001R1MSD	103	109	107		0
07	F16GP001R1	105	108	110		0
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		QC LIMITS
SMC1 (DBF)	= Dibromofluoromethane	(86-118)
SMC2 (TOL)	= Toluene-d8	(88-110)
SMC3 (BFB)	= Bromofluorobenzene	(86-115)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3A
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix Spike - EPA Sample No.: VBLK01

COMPOUND	SPIKE ADDED (ug/l)	SAMPLE CONCENTRATION (ug/l)	LCS CONCENTRATION (ug/l)	LCS % REC #	QC. LIMITS REC.
1,1-Dichloroethylene	50.0	0.0	46.2	92	61-145
Benzene	50.0	0.0	47.7	95	76-127
Trichloroethylene	50.0	0.0	49.0	98	71-120
Toluene	50.0	0.0	47.7	95	76-125
Chlorobenzene	50.0	0.0	46.9	94	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

FORM III VOA-1 OLM03.0

3A
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix Spike - EPA Sample No.: F16GP001R1

COMPOUND	SPIKE ADDED (ug/l)	SAMPLE CONCENTRATION (ug/l)	MS CONCENTRATION (ug/l)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethylene	50.0	0.0	51.0	102	61-145
Benzene	50.0	0.0	51.0	102	76-127
Trichloroethylene	50.0	0.0	53.4	107	71-120
Toluene	50.0	0.0	51.6	103	76-125
Chlorobenzene	50.0	0.0	50.5	101	75-130

COMPOUND	SPIKE ADDED (ug/l)	MSD CONCENTRATION (ug/l)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethylene	50.0	46.1	92	10	14	61-145
Benzene	50.0	48.3	97	5	11	76-127
Trichloroethylene	50.0	49.7	99	8	14	71-120
Toluene	50.0	48.6	97	6	13	76-125
Chlorobenzene	50.0	48.7	97	4	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM III VOA-1 OLM03.0

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Lab File ID: 1W407 Lab Sample ID: 1201029481

Date Analyzed: 02/09/06 Time Analyzed: 1141

GC Column: RTX-VOLATILESID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: VOA1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VBLK01LCS	1201029484	1W405CH2M	1046
02	F16TP001R1	154608003	1W408	1249
03	F16EP001R1	154608002	1W409	1317
04	F16GP001R1MS	1201029482	1W410	1345
05	F16GP001R1MSD	1201029483	1W411	1413
06	F16GP001R1	154608001	1W413	1511
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SAMPLE DATA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F16EP001R1

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) WATER Lab Sample ID: 154608002

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1W409

Level: (low/med) LOW Date Received: 01/26/06

% Moisture: not dec. _____ Date Analyzed: 02/09/06

GC Column: RTX-VOLATILES ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-35-4	1,1-Dichloroethylene	1.0	U
67-64-1	Acetone	10.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethylene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	10.0	U
156-59-2	cis-1,2-Dichloroethylene	1.0	U
540-59-0	1,2-Dichloroethylene (total)	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethylene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
110-75-8	2-Chloroethylvinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropylene	1.0	U
108-10-1	4-Methyl-2-pentanone	10.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropylene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	10.0	U
127-18-4	Tetrachloroethylene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F16EP001R1

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) WATER Lab Sample ID: 154608002

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1W409

Level: (low/med) LOW Date Received: 01/26/06

% Moisture: not dec. _____ Date Analyzed: 02/09/06

GC Column: RTX-VOLATILES ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-47-6	o-Xylene	1.0	U
	m,p-Xylenes	2.0	U
1330-20-7	Xylenes (total)	3.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F16EP001R1

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) WATER Lab Sample ID: 154608002

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1W409

Level: (low/med) LOW Date Received: 01/26/06

% Moisture: not dec. _____ Date Analyzed: 02/09/06

GC Column: RTX-VOLATILES ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F16GP001R1

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) WATER Lab Sample ID: 154608001

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1W413

Level: (low/med) LOW Date Received: 01/26/06

% Moisture: not dec. _____ Date Analyzed: 02/09/06

GC Column: RTX-VOLATILES ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-35-4	1,1-Dichloroethylene	1.0	U
67-64-1	Acetone	6.6	J
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethylene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	10.0	U
156-59-2	cis-1,2-Dichloroethylene	1.0	U
540-59-0	1,2-Dichloroethylene (total)	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethylene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
110-75-8	2-Chloroethylvinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropylene	1.0	U
108-10-1	4-Methyl-2-pentanone	10.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropylene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	10.0	U
127-18-4	Tetrachloroethylene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F16GP001R1

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) WATER Lab Sample ID: 154608001

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1W413

Level: (low/med) LOW Date Received: 01/26/06

% Moisture: not dec. _____ Date Analyzed: 02/09/06

GC Column: RTX-VOLATILES ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-47-6	o-Xylene	1.0	U
	m,p-Xylenes	2.0	U
1330-20-7	Xylenes (total)	3.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

FORM I VOA OLM03.0

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F16GP001R1

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) WATER Lab Sample ID: 154608001

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1W413

Level: (low/med) LOW Date Received: 01/26/06

% Moisture: not dec. _____ Date Analyzed: 02/09/06

GC Column: RTX-VOLATILES ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.01	17.6	J
2.	UNKNOWN	2.24	14.4	J
3. 5557-93-7	BENZENE, 1-(1-METHYLETHENYL)	13.54	6.5	NJ
4.	UNKNOWN SUBSTITUTED BENZENE	13.98	5.0	J
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FORM I VOA-TIC OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F16TP001R1

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) WATER Lab Sample ID: 154608003

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1W408

Level: (low/med) LOW Date Received: 01/26/06

% Moisture: not dec. _____ Date Analyzed: 02/09/06

GC Column: RTX-VOLATILES ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-35-4	1,1-Dichloroethylene	1.0	U
67-64-1	Acetone	10.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethylene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	10.0	U
156-59-2	cis-1,2-Dichloroethylene	1.0	U
540-59-0	1,2-Dichloroethylene (total)	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethylene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
110-75-8	2-Chloroethylvinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropylene	1.0	U
108-10-1	4-Methyl-2-pentanone	10.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropylene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	10.0	U
127-18-4	Tetrachloroethylene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F16TP001R1

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) WATER Lab Sample ID: 154608003

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1W408

Level: (low/med) LOW Date Received: 01/26/06

% Moisture: not dec. _____ Date Analyzed: 02/09/06

GC Column: RTX-VOLATILES ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-47-6	o-Xylene	1.0	U
	m,p-Xylenes	2.0	U
1330-20-7	Xylenes (total)	3.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

FORM I VOA OLM03.0

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F16TP001R1

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) WATER Lab Sample ID: 154608003

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1W408

Level: (low/med) LOW Date Received: 01/26/06

% Moisture: not dec. _____ Date Analyzed: 02/09/06

GC Column: RTX-VOLATILES ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC OLM03.0

STANDARDS DATA

EPA 524.2/Low level SW846 8260B and Regular level 8260B and EPA 624
Calibration Standard Concentration Levels

	Level 1	Level 1a	Level 2	Level 3	Level 4 #	Level 5	Level 6	Level 7 1	Level 7a
Fluorobenzene (IS)									
Dibromofluoromethane (surr)		0.5	1	2	5	10	20	50	100
Dichlorodifluoromethane		0.5	1	2	5	10	20	50	100
Chloromethane		0.5	1	2	5	10	20	50	100
Vinyl chloride		0.5	1	2	5	10	20	50	100
Bromomethane		0.5	1	2	5	10	20	50	100
Chloroethane		0.5	1	2	5	10	20	50	100
Trichlorofluoromethane		0.5	1	2	5	10	20	50	100
1,1-Dichloroethene		0.5	1	2	5	10	20	50	100
Acetone	1	2.5	5	10	25	50	100	250	500
Iodomethane	1	2.5	5	10	25	50	100	250	500
Carbon disulfide	1	2.5	5	10	25	50	100	250	500
Methylene chloride		0.5	1	2	5	10	20	50	100
trans-1,2-Dichloroethene		0.5	1	2	5	10	20	50	100
1,1-Dichloroethane		0.5	1	2	5	10	20	50	100
Vinyl acetate	1	2.5	5	10	25	50	100	250	500
cis-1,2-Dichloroethene		0.5	1	2	5	10	20	50	100
2,2-Dichloropropane		0.5	1	2	5	10	20	50	100
2-Butanone	1	2.5	5	10	25	50	100	250	500
Bromochloromethane		0.5	1	2	5	10	20	50	100
Chloroform		0.5	1	2	5	10	20	50	100
1,1,1-Trichloroethane		0.5	1	2	5	10	20	50	100
1,1-Dichloropropene		0.5	1	2	5	10	20	50	100
Carbon tetrachloride		0.5	1	2	5	10	20	50	100
Benzene		0.5	1	2	5	10	20	50	100
1,2-Dichloroethane		0.5	1	2	5	10	20	50	100
Trichloroethene		0.5	1	2	5	10	20	50	100
1,2-Dichloropropane		0.5	1	2	5	10	20	50	100
Dibromomethane		0.5	1	2	5	10	20	50	100
Bromodichloromethane		0.5	1	2	5	10	20	50	100
cis-1,3-Dichloropropene		0.5	1	2	5	10	20	50	100
tert-Butylmethylether		0.5	1	2	5	10	20	50	100
Ethyl Ether			1	2	5	10	20	50	100
Acetonitrile			25	50	125	250	500	1250	2500
2-Chloroethylvinyl ether			5	10	25	50	100	250	500
Methyl acetate			5	10	25	50	100	250	500
Cyclohexane			1	2	5	10	20	50	100
Methylcyclohexane			1	2	5	10	20	50	100
n-Butyl alcohol			50	100	250	500	1000	2500	5000
2-Nitropropane			5	10	25	50	100	250	500
Ethyl acetate			5	10	25	50	100	250	500
Acrolein			5	10	25	50	100	250	500
Trichlorotrifluoroethane			5	10	25	50	100	250	500
Allyl chloride			5	10	25	50	100	250	500
Acrylonitrile			5	10	25	50	100	250	500
1,4-Dioxane			50	100	250	500	1000	2500	5000
Isobutyl alcohol			50	100	250	500	1000	2500	5000
Methacrylonitrile			5	10	25	50	100	250	500
Propionitrile			5	10	25	50	100	250	500
Methyl methacrylate			5	10	25	50	100	250	500
2-Chloro-1,3-butadiene(chloroprene)			1	2	5	10	20	50	100
Chlorobenzene-d5 (IS)									
Toluene-d8 (surr)		0.5	1	2	5	10	20	50	100
4-Methyl-2-pentanone	1	2.5	5	10	25	50	100	250	500
Toluene		0.5	1	2	5	10	20	50	100
trans-1,3-Dichloropropene		0.5	1	2	5	10	20	50	100
1,1,2-Trichloroethane		0.5	1	2	5	10	20	50	100
Tetrachloroethene		0.5	1	2	5	10	20	50	100
1,3-Dichloropropane		0.5	1	2	5	10	20	50	100
2-Hexanone	1	2.5	5	10	25	50	20	250	500
Dibromochloromethane		0.5	1	2	5	10	20	50	100
1,2-Dibromoethane		0.5	1	2	5	10	20	50	100
Chlorobenzene		0.5	1	2	5	10	20	50	100

	Level 1	Level 1a	Level 2	Level 3	Level 4 #	Level 5	Level 6	Level 7 !	Level 7a
1,1,1,2-Tetrachloroethane		0.5	1	2	5	10	20	50	100
Ethylbenzene		0.5	1	2	5	10	20	50	100
m,p-Xylene		1	2	4	10	20	20	100	200
o-Xylene		0.5	1	2	5	10	20	50	100
Stryene		0.5	1	2	5	10	20	50	100
Cyclohexanone			50	100	250	500	1000	2500	5000
Ethyl methacrylate			5	10	25	50	100	250	500
3,4-Dichlorobenzene d4 (IS)									
Bromofluorobenzene (surr)		0.5	1	2	5	10	20	50	100
Bromoform		0.5	1	2	5	10	20	50	100
Isopropylbenzene		0.5	1	2	5	10	20	50	100
1,1,2,2-Tetrachloroethane		0.5	1	2	5	10	20	50	100
Bromobenzene		0.5	1	2	5	10	20	50	100
1,2,3-Trichloropropane		0.5	1	2	5	10	20	50	100
n-Propylbenzene		0.5	1	2	5	10	20	50	100
2-Chlorotoluene		0.5	1	2	5	10	20	50	100
1,3,5-Trimethylbenzene		0.5	1	2	5	10	20	50	100
4-Chlorotoluene		0.5	1	2	5	10	20	50	100
1,2,4-Trimethylbenzene		0.5	1	2	5	10	20	50	100
sec-Butylbenzene		0.5	1	2	5	10	20	50	100
1,3-Dichlorobenzene		0.5	1	2	5	10	20	50	100
tert-Butylbenzene		0.5	1	2	5	10	20	50	100
Isopropyltoluene		0.5	1	2	5	10	20	50	100
1,4-Dichlorobenzene		0.5	1	2	5	10	20	50	100
n-Butylbenzene		0.5	1	2	5	10	20	50	100
1,2-Dichlorobenzene		0.5	1	2	5	10	20	50	100
1,2-Dibromo-3-chloropropane		0.5	1	2	5	10	20	50	100
1,2,4-Trichlorobenzene		0.5	1	2	5	10	20	50	100
Hexachlorobutadiene		0.5	1	2	5	10	20	50	100
Naphthalene		0.5	1	2	5	10	20	50	100
1,2,3-Trichlorobenzene		0.5	1	2	5	10	20	50	100
cis-1,4-Dichloro-2-butene			5	10	25	50	100	250	500
trans-1,4-Dichloro-2-butene			5	10	25	50	100	250	500
Tetrahydrofuran			5	10	25	50	100	250	500
Pentachloroethane			5	10	25	50	100	250	500
Benzyl chloride			5	10	25	50	100	250	500
bis(2-Chloro-isopropyl)ether			5	10	25	50	100	250	500

Method	PQL	Concentration range
EPA 524.2	Level 1a	Levels 1a -> 7a
SW 846 8260B low level	Level 1a	Levels 1-> 7a
EPA 624	Level 2	Levels 2-> 7a
SW846 8260B	Level 2	Levels 2-> 7a

#: Indicates calibration verification concentration level used for low level analysis

!: Indicates calibration verification concentration level used for regular level analysis

Report Date: 03-Feb-2006 07:32

Calibration History

Method : /chem/VOA1.i/020306v1.b/VOA1-8260B-012606.m
Start Cal Date: 26-JAN-2006 13:45
End Cal Date : 26-JAN-2006 21:02

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
26-JAN-2006 18:18	ICALsubS	/chem/VOA1.i/012606v1.b/1u421.d
26-JAN-2006 14:12	CALsubL+	/chem/VOA1.i/012606v1.b/1u410.d
Cal Level: 2 , Cal Amount: 2.00000		
26-JAN-2006 18:45	ICALsubS	/chem/VOA1.i/012606v1.b/1u422.d
26-JAN-2006 15:07	CALsubL+	/chem/VOA1.i/012606v1.b/1u412.d
Cal Level: 3 , Cal Amount: 5.00000		
26-JAN-2006 19:12	ICALsubS	/chem/VOA1.i/012606v1.b/1u423.d
26-JAN-2006 15:34	CALsubL+	/chem/VOA1.i/012606v1.b/1u415.d
Cal Level: 4 , Cal Amount: 10.00000		
26-JAN-2006 19:40	ICALsubS	/chem/VOA1.i/012606v1.b/1u424.d
26-JAN-2006 16:01	CALsubL+	/chem/VOA1.i/012606v1.b/1u416.d
Cal Level: 5 , Cal Amount: 20.00000		
26-JAN-2006 20:07	ICALsubS	/chem/VOA1.i/012606v1.b/1u425.d
26-JAN-2006 16:28	CALsubL+	/chem/VOA1.i/012606v1.b/1u417.d
Cal Level: 6 , Cal Amount: 50.00000		
26-JAN-2006 20:35	ICALsubS	/chem/VOA1.i/012606v1.b/1u426.d
26-JAN-2006 16:56	CALsubL+	/chem/VOA1.i/012606v1.b/1u418.d
Cal Level: 7 , Cal Amount: 100.00000		
26-JAN-2006 21:02	ICALsubS	/chem/VOA1.i/012606v1.b/1u427.d
26-JAN-2006 17:23	CALsubL+	/chem/VOA1.i/012606v1.b/1u419.d
Cal Level: 8 , Cal Amount: 200.00000		
26-JAN-2006 13:45	BENZENE+	/chem/VOA1.i/012606v1.b/1u409.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

Ccal Level: 6 , Ccal Amount: 50.0		
03-FEB-2006 07:04	CALsubL+	/chem/VOA1.i/020306v1.b/1v503.d
Ccal Level: 6 , Ccal Amount: 50.0		
03-FEB-2006 06:36	CALsubL+	/chem/VOA1.i/020306v1.b/1v502.d

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 26-JAN-2006 13:45
End Cal Date : 26-JAN-2006 21:02
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA1.i/012606v1.b/VOA1-8260B-012606.m
Cal Date : 27-Jan-2006 15:22 ehl

Calibration File Names:
Level 1: /chem/VOA1.i/012606v1.b/1u421.d
Level 2: /chem/VOA1.i/012606v1.b/1u422.d
Level 3: /chem/VOA1.i/012606v1.b/1u423.d
Level 4: /chem/VOA1.i/012606v1.b/1u424.d
Level 5: /chem/VOA1.i/012606v1.b/1u425.d
Level 6: /chem/VOA1.i/012606v1.b/1u426.d
Level 7: /chem/VOA1.i/012606v1.b/1u427.d

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7										
M 1 Xylenes (total)	0.65103	0.62587	0.61179	0.60651	0.61657	0.59668					
	0.65050						AVRG		0.62271		3.39464
M 2 1,2-Dichloroethylene (total)	0.25067	0.24684	0.25038	0.22904	0.23673	0.22042					
	0.24054						AVRG		0.23923		4.76140
M 135 1,3-Dichloropropylene	0.54434	0.51499	0.52954	0.51072	0.52966	0.52733					
	0.57747						AVRG		0.53344		4.17860
3 Dichlorodifluoromethane	0.24704	0.26428	0.30750	0.30592	0.30527	0.28778					
	0.28783						AVRG		0.28651		8.09165
4 Chloromethane	0.52702	0.40432	0.42346	0.39382	0.39211	0.35717					
	0.34749						AVRG		0.40648		14.58879
5 Vinyl chloride	0.39150	0.38347	0.38657	0.37410	0.38013	0.35542					
	0.35596						AVRG		0.37531		3.84589

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 26-JAN-2006 13:45
End Cal Date : 26-JAN-2006 21:02
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA1.i/012606v1.b/VOA1-8260B-012606.m
Cal Date : 27-Jan-2006 15:22 eh1

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7										
9 Acrolein	0.02974	0.03919	0.03619	0.04091	0.04060	0.04004					
	0.03122						AVRG		0.03684		12.57927
6 Bromomethane	0.19122	0.17982	0.19354	0.19636	0.18816	0.18626					
	0.18622						AVRG		0.18880		2.89877
7 Chloroethane	0.18038	0.17337	0.19904	0.20175	0.19548	0.18614					
	0.19125						AVRG		0.18963		5.42156
12 Trichlorotrifluoroethane	0.09825	0.09660	0.10087	0.10130	0.10064	0.10086					
	0.09131						AVRG		0.09855		3.68168
8 Trichlorofluoromethane	0.33223	0.39357	0.45150	0.43460	0.48409	0.44292					
	0.44889						AVRG		0.42683		11.61597
16 Allyl chloride	0.09322	0.10045	0.11249	0.11752	0.11942	0.13192					
	0.12638						AVRG		0.11449		11.99733
18 Acrylonitrile	0.07725	0.08625	0.08345	0.08896	0.08886	0.08797					
	0.08255						AVRG		0.08504		5.02234
134 Ethyl Ether	0.20321	0.22189	0.21371	0.22889	0.22033	0.22265					
	0.23896						AVRG		0.22138		5.07425
10 Acetone	22634	35657	75810	151270	266649	680868					
	1461050						LINR	-0.02987	0.06636		0.99906

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 26-JAN-2006 13:45
End Cal Date : 26-JAN-2006 21:02
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA1.i/012606v1.b/VOA1-8260B-012606.m
Cal Date : 27-Jan-2006 15:22 eh1

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7										
11 1,1-Dichloroethylene	0.35994	0.34967	0.36344	0.33568	0.33305	0.31513					
	0.34870						AVRG		0.34366		4.90900
15 Acetonitrile	0.03032	0.02861	0.02856	0.02884	0.02688	0.02622					
	0.02758						AVRG		0.02814		4.85699
128 Methyl acetate	0.18255	0.18041	0.18208	0.18049	0.16975	0.16556					
	0.17377						AVRG		0.17637		3.81462
13 Iodomethane	0.35756	0.35907	0.34247	0.32692	0.32902	0.30564					
	0.32503						AVRG		0.33510		5.72299
17 Methylene chloride	+++++	27209	52598	94763	171549	413030					
	883201						LINR	-0.02070	0.19914		0.99894
24 2-Chloro-1,3-butadiene	0.28599	0.34627	0.33230	0.34295	0.34348	0.35785					
	0.34122						AVRG		0.33572		6.90932
14 Carbon disulfide	0.79897	0.80952	0.74031	0.69995	0.69693	0.63825					
	0.62787						AVRG		0.71597		9.98323
20 tert-Butyl methyl ether	0.68333	0.68501	0.67963	0.67308	0.65955	0.65513					
	0.70334						AVRG		0.67701		2.41436
28 Propionitrile	0.02845	0.03080	0.03010	0.03637	0.03393	0.03378					
	0.03215						AVRG		0.03222		8.33243

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 26-JAN-2006 13:45
End Cal Date : 26-JAN-2006 21:02
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA1.i/012606v1.b/VOA1-8260B-012606.m
Cal Date : 27-Jan-2006 15:22 eh1

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7										
21 trans-1,2-Dichloroethylene	0.25501	0.23304	0.24383	0.21312	0.22305	0.20751					
	0.22822						AVRG		0.22911		7.26474
26 Ethyl acetate	0.21694	0.23589	0.21715	0.23288	0.23548	0.23149					
	0.21577						AVRG		0.22651		4.14156
27 Methacrylonitrile	0.14156	0.14357	0.14159	0.15127	0.15521	0.15423					
	0.14366						AVRG		0.14730		4.10327
19 Isobutyl alcohol	0.00745	0.00815	0.00839	0.00997	0.00942	0.00951					
	0.00912						AVRG		0.00886		10.03884
23 Vinyl acetate	0.46663	0.46048	0.49184	0.50053	0.50304	0.52027					
	0.52028						AVRG		0.49472		4.79695
22 1,1-Dichloroethane	0.42494	0.45045	0.43359	0.40219	0.40457	0.38743					
	0.42109						AVRG		0.41775		5.09483
72 Tetrahydrofuran	0.25474	0.25703	0.24905	0.26349	0.25750	0.25900					
	0.24793						AVRG		0.25554		2.15432
30 2-Butanone	0.12135	0.11003	0.10952	0.10896	0.10520	0.10261					
	0.11025						AVRG		0.10970		5.35666
31 cis-1,2-Dichloroethylene	0.24632	0.26064	0.25692	0.24496	0.25040	0.23332					
	0.25286						AVRG		0.24935		3.60010

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 26-JAN-2006 13:45
End Cal Date : 26-JAN-2006 21:02
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA1.i/012606v1.b/VOA1-8260B-012606.m
Cal Date : 27-Jan-2006 15:22 ehl

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7										
25 2,2-Dichloropropane	0.30026	0.27188	0.26415	0.24859	0.25266	0.24088					
	0.26716						AVRG		0.26365		7.40483
34 1,1-Dichloropropene	0.34530	0.36052	0.33495	0.30437	0.31595	0.30440					
	0.33083						AVRG		0.32805		6.43444
32 Chloroform	0.48883	0.48549	0.43668	0.41369	0.41529	0.39520					
	0.42093						AVRG		0.43659		8.39353
29 Bromochloromethane	0.11797	0.11319	0.10914	0.10819	0.10285	0.09868					
	0.10557						AVRG		0.10794		5.94316
36 1,1,1-Trichloroethane	0.29164	0.31298	0.29680	0.28134	0.29119	0.27711					
	0.30661						AVRG		0.29395		4.36136
129 Cyclohexane	0.37610	0.36618	0.36076	0.35406	0.35446	0.33592					
	0.37265						AVRG		0.36002		3.76699
131 n-Butyl alcohol	25998	40295	129281	285606	572096	1707848					
	3755966						LINR	3.69216	0.00869		0.99823
33 Carbon tetrachloride	0.25120	0.29651	0.27189	0.24691	0.25559	0.25001					
	0.27732						AVRG		0.26421		6.94259
37 1,2-Dichloroethane	0.31719	0.34595	0.33330	0.34053	0.32161	0.31775					
	0.33162						AVRG		0.32971		3.41995

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 26-JAN-2006 13:45
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Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA1.i/012606v1.b/VOA1-8260B-012606.m
Cal Date : 27-Jan-2006 15:22 eh1

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7										
38 Benzene	1.10290	1.07110	0.99568	0.96020	0.95906	0.90717					
	0.96466						AVRG		0.99439		6.93930
42 Methyl methacrylate	0.16375	0.16998	0.17041	0.18475	0.18858	0.19604					
	0.18815						AVRG		0.18024		6.70440
97 1,4-Dioxane	0.00267	0.00282	0.00277	0.00312	0.00291	0.00311					
	0.00279						AVRG		0.00288		5.99847
48 2-Nitropropane	0.06845	0.08244	0.07494	0.08430	0.08640	0.09116					
	0.08793						AVRG		0.08223		9.63836
39 Trichloroethylene	0.26389	0.25554	0.24994	0.22985	0.22889	0.21899					
	0.23391						AVRG		0.24014		6.83410
41 1,2-Dichloropropane	0.25665	0.27045	0.25233	0.25668	0.25334	0.24488					
	0.25395						AVRG		0.25547		3.01562
130 Methylcyclohexane	0.43216	0.43112	0.41701	0.40902	0.42532	0.41461					
	0.44449						AVRG		0.42482		2.87590
43 Dibromomethane	0.16527	0.15491	0.16166	0.15973	0.15445	0.14910					
	0.15409						AVRG		0.15703		3.48030
45 Bromodichloromethane	0.33256	0.32523	0.33570	0.32446	0.32711	0.31263					
	0.33326						AVRG		0.32728		2.37189

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 26-JAN-2006 13:45
End Cal Date : 26-JAN-2006 21:02
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA1.i/012606v1.b/VOA1-8260B-012606.m
Cal Date : 27-Jan-2006 15:22 eh1

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7										
44 2-Chloroethylvinyl ether	0.11245	0.12260	0.13223	0.13869	0.13937	0.14613					
	0.14966						AVRG		0.13445		9.78868
51 Ethyl methacrylate	0.41792	0.44662	0.45768	0.50674	0.51717	0.53620					
	0.52985						AVRG		0.48745		9.48163
49 4-Methyl-2-pentanone	0.13157	0.13288	0.14258	0.14088	0.13541	0.14103					
	0.15155						AVRG		0.13941		4.92137
46 cis-1,3-Dichloropropylene	0.37948	0.37916	0.37744	0.35881	0.37470	0.36286					
	0.39684						AVRG		0.37561		3.31010
50 Toluene	1.10293	0.96951	0.91171	0.91679	0.89193	0.86927					
	0.94226						AVRG		0.94348		8.20863
53 trans-1,3-Dichloropropylene	0.50774	0.45866	0.49005	0.47721	0.49938	0.50492					
	0.55457						AVRG		0.49893		6.00242
54 1,1,2-Trichloroethane	0.26870	0.29318	0.28218	0.27767	0.26684	0.26045					
	0.27763						AVRG		0.27524		3.96234
55 2-Hexanone	0.24373	0.22885	0.23466	0.24379	0.22615	0.23339					
	0.24954						AVRG		0.23716		3.65655
52 1,3-Dichloropropane	0.65141	0.56462	0.58830	0.57826	0.55498	0.55372					
	0.59251						AVRG		0.58340		5.77062

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 26-JAN-2006 13:45
End Cal Date : 26-JAN-2006 21:02
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA1.i/012606v1.b/VOA1-8260B-012606.m
Cal Date : 27-Jan-2006 15:22 eh1

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7										
56 Tetrachloroethylene	0.26105	0.31992	0.26881	0.27149	0.26851	0.24996					
	0.26740						AVRG		0.27245		8.13159
57 Dibromochloromethane	0.33265	0.32208	0.31653	0.32090	0.31172	0.31458					
	0.33437						AVRG		0.32183		2.71435
59 1,2-Dibromoethane	0.32449	0.30373	0.30938	0.28776	0.29159	0.28997					
	0.30467						AVRG		0.30166		4.33334
62 Chlorobenzene	1.07567	1.01808	1.00502	0.94299	0.94482	0.91959					
	0.96925						AVRG		0.98220		5.50907
60 1,1,1,2-Tetrachloroethane	0.30893	0.30121	0.30405	0.30608	0.29867	0.29959					
	0.32520						AVRG		0.30624		2.97580
58 Ethylbenzene	1.91095	1.80574	1.68089	1.62218	1.67964	1.62090					
	1.73362						AVRG		1.72199		6.11464
63 m,p-Xylenes	0.65160	0.63448	0.63455	0.61230	0.61513	0.59649					
	0.65434						AVRG		0.62841		3.40011
70 Cyclohexanone	0.03789	0.04312	0.04161	0.04845	0.04962	0.05059					
	0.05601						AVRG		0.04676		13.23164
68 cis-1,4-Dichloro-2-butene	0.28929	0.30904	0.32230	0.36166	0.34828	0.36310					
	0.34665						AVRG		0.33433		8.40134

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 26-JAN-2006 13:45
End Cal Date : 26-JAN-2006 21:02
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA1.i/012606v1.b/VOA1-8260B-012606.m
Cal Date : 27-Jan-2006 15:22 eh1

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7										
69 trans-1,4-Dichloro-2-butene	0.24994	0.24638	0.26675	0.31535	0.29369	0.31161					
	0.29568						AVRG		0.28277		10.04186
64 o-Xylene	0.64988	0.60866	0.56626	0.59492	0.61946	0.59707					
	0.64284						AVRG		0.61130		4.74857
65 Styrene	1.08890	0.97666	0.95925	0.99382	1.03874	1.00798					
	1.06817						AVRG		1.01907		4.70792
66 Bromoform	0.54799	0.40757	0.43175	0.44792	0.43319	0.44472					
	0.50072						AVRG		0.45912		10.53585
67 Isopropylbenzene	3.31631	3.20704	3.09442	3.00507	2.96463	3.10888					
	3.42095						AVRG		3.15961		5.22978
73 1,1,2,2-Tetrachloroethane	1.02723	0.84838	0.91623	0.90328	0.84112	0.84616					
	0.90148						AVRG		0.89770		7.25614
74 1,2,3-Trichloropropane	1862	6502	15796	30709	60004	160780					
	322151						LINR	0.00901	0.25639		0.99969
82 Pentachloroethane	0.40321	0.46173	0.45500	0.50084	0.48270	0.50110					
	0.48275						AVRG		0.46962		7.27071
75 Bromobenzene	1.01510	0.89786	0.84455	0.80097	0.81775	0.79298					
	0.84863						AVRG		0.85969		8.96241

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 26-JAN-2006 13:45
End Cal Date : 26-JAN-2006 21:02
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA1.i/012606v1.b/VOA1-8260B-012606.m
Cal Date : 27-Jan-2006 15:22 eh1

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7										
76 n-Propylbenzene	4.47885	4.28367	4.15012	4.00543	4.16814	4.19767					
	4.51745						AVRG		4.25733		4.32990
78 1,3,5-Trimethylbenzene	2.66732	2.67902	2.58116	2.61587	2.64567	2.71856					
	2.88056						AVRG		2.68402		3.62569
77 2-Chlorotoluene	3.03682	2.97282	2.91638	2.82065	2.79362	2.82836					
	3.03263						AVRG		2.91447		3.52038
88 Benzyl chloride	0.99951	1.04108	1.07794	1.31412	1.31781	1.38475					
	1.28874						AVRG		1.20342		13.10255
80 4-Chlorotoluene	3.05243	2.78921	2.69931	2.59896	2.67855	2.57983					
	2.74615						AVRG		2.73492		5.79798
81 tert-Butylbenzene	2.80059	2.57274	2.48923	2.46311	2.53639	2.57428					
	2.86428						AVRG		2.61437		5.94814
79 1,2,4-Trimethylbenzene	2.95506	2.78479	2.66613	2.62886	2.75313	2.74817					
	2.91889						AVRG		2.77929		4.34499
91 bis(2-Chloroisopropyl)ether	0.31652	0.32615	0.30666	0.37296	0.36157	0.35721					
	0.32961						AVRG		0.33867		7.42863
83 sec-Butylbenzene	3.82475	3.69674	3.53057	3.48217	3.59064	3.61467					
	3.90451						AVRG		3.66344		4.22055

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 26-JAN-2006 13:45
End Cal Date : 26-JAN-2006 21:02
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA1.i/012606v1.b/VOA1-8260B-012606.m
Cal Date : 27-Jan-2006 15:22 eh1

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7										
84 4-Isopropyltoluene	3.02210	2.64637	2.73283	2.70800	2.69988	2.77255					
	3.00642						AVRG		2.79831		5.44456
85 1,3-Dichlorobenzene	1.70559	1.59241	1.60142	1.49467	1.50788	1.44343					
	1.52611						AVRG		1.55307		5.59769
87 1,4-Dichlorobenzene	2.01961	1.70946	1.60943	1.54024	1.50174	1.42397					
	1.48757						AVRG		1.61315		12.49562
89 n-Butylbenzene	3.09084	2.71444	2.63741	2.63998	2.72865	2.69668					
	2.84758						AVRG		2.76508		5.78358
90 1,2-Dichlorobenzene	1.70987	1.54643	1.47198	1.41118	1.42130	1.31219					
	1.36491						AVRG		1.46255		9.03529
92 1,2-Dibromo-3-chloropropane	0.11443	0.10927	0.14664	0.12684	0.12829	0.12423					
	0.12033						AVRG		0.12429		9.63514
93 1,2,4-Trichlorobenzene	13224	17593	44610	81992	185934	397741					
	681959						LINR	-0.05268	0.54642		0.99329
94 Hexachlorobutadiene	9271	13549	31591	52990	122401	270212					
	492148						LINR	-0.03830	0.39057		0.99780
95 Naphthalene	1.93696	1.40485	1.45181	1.38261	1.60566	1.34217					
	+++++						AVRG		1.52068		14.69271

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 26-JAN-2006 13:45
End Cal Date : 26-JAN-2006 21:02
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA1.i/012606v1.b/VOA1-8260B-012606.m
Cal Date : 27-Jan-2006 15:22 eh1

Compound	1 Level 1	2 Level 2	5 Level 3	10 Level 4	20 Level 5	50 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7										
96 1,2,3-Trichlorobenzene	11232	15561	40807	68845	166357	+++++					
	+++++						LINR	0.00111	0.64195		0.99167
$ 35 Dibromofluoromethane	0.28177	0.25607	0.23763	0.21702	0.22205	0.21074					
	0.22481						AVRG		0.23573		10.70003
$ 137 1,2-Dichloroethane-d4	0.38800	0.33718	0.32266	0.29927	0.29881	0.28200					
	0.29534						AVRG		0.31761		11.36445
$ 47 Toluene-d8	1.68394	1.44320	1.36556	1.30926	1.31879	1.26618					
	1.34769						AVRG		1.39066		10.10711
$ 71 Bromofluorobenzene	20563	31754	69272	131831	263341	674804					
	1427375						LINR	0.01011	1.12592		0.99846

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 26-JAN-2006 13:45
End Cal Date : 26-JAN-2006 21:02
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA1.i/012606v1.b/VOA1-8260B-012606.m
Cal Date : 27-Jan-2006 15:22 eh1

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Linear	Amt = b + Rsp/ml	Response

Data File: /chem/VOA1.i/012606v1.b/1u430.d
Report Date: 27-Jan-2006 14:46

General Engineering Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA1.i
Lab File ID: 1u430.d
Analysis Type: WATER
Lab Sample ID: UVM060105-01C
Method: /chem/VOA1.i/012606v1.b/VOA1-8260B-012606.m

Injection Date: 26-JAN-2006 22:24
Init. Cal. Date(s): 26-JAN-2006 26-JAN-2006
Init. Cal. Times: 13:45 21:02
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M 1 Xylenes (total)	0.62271	0.69665	0.69665	0.050	11.87362	40.00000	Averaged
M 2 1,2-Dichloroethylene (total	0.23878	0.26384	0.26384	0.050	10.49282	40.00000	Averaged
M 135 1,3-Dichloropropylene	0.53343	0.60103	0.60103	0.050	12.67142	40.00000	Averaged
3 Dichlorodifluoromethane	0.28654	0.33157	0.33157	0.050	15.71517	40.00000	Averaged
4 Chloromethane	52.95137	50.00000	0.37409	0.100	5.90274	40.00000	Linear spcc
5 Vinyl chloride	0.36956	0.36734	0.36734	0.050	-0.59997	20.00000	Averaged ccc
6 Bromomethane	0.18821	0.18908	0.18908	0.050	0.46303	40.00000	Averaged
7 Chloroethane	0.18963	0.19740	0.19740	0.050	4.09675	40.00000	Averaged
8 Trichlorofluoromethane	49.81177	50.00000	0.44707	0.050	-0.37646	40.00000	Linear
134 Ethyl Ether	0.22082	0.22476	0.22476	0.010	1.78853	40.00000	Averaged
10 Acetone	247	250	0.06603	0.050	-1.09397	40.00000	Linear
15 Acetonitrile	0.02814	0.02814	0.02814	0.010	-0.03465	40.00000	Averaged
11 1,1-Dichloroethylene	0.34366	0.39819	0.39819	0.050	15.86658	20.00000	Averaged ccc
128 Methyl acetate	0.17637	0.17877	0.17877	0.010	1.35831	40.00000	Averaged
13 Iodomethane	0.33510	0.33119	0.33119	0.050	-1.16633	40.00000	Averaged
17 Methylene chloride	56.47316	50.00000	0.22909	0.050	12.94633	40.00000	Linear
14 Carbon disulfide	0.71597	0.76333	0.76333	0.050	6.61419	40.00000	Averaged
20 tert-Butyl methyl ether	0.67644	0.71352	0.71352	0.050	5.48158	40.00000	Averaged
21 trans-1,2-Dichloroethylene	0.22912	0.25110	0.25110	0.050	9.59512	40.00000	Averaged
23 Vinyl acetate	0.49472	0.51587	0.51587	0.010	4.27350	40.00000	Averaged
22 1,1-Dichloroethane	0.41775	0.45889	0.45889	0.100	9.84756	40.00000	Averaged spcc
30 2-Butanone	0.10955	0.10899	0.10899	0.030	-0.51667	40.00000	Averaged
31 cis-1,2-Dichloroethylene	0.24844	0.27657	0.27657	0.050	11.32070	40.00000	Averaged
25 2,2-Dichloropropane	0.26366	0.28124	0.28124	0.050	6.66879	40.00000	Averaged
32 Chloroform	0.43659	0.45964	0.45964	0.010	5.28003	20.00000	Averaged ccc
29 Bromochloromethane	0.10794	0.11582	0.11582	0.010	7.29857	40.00000	Averaged
$ 35 Dibromofluoromethane	0.23573	0.25080	0.25080	0.010	6.39571	40.00000	Averaged
36 1,1,1-Trichloroethane	0.29395	0.33331	0.33331	0.010	13.39035	40.00000	Averaged
$ 137 1,2-Dichloroethane-d4	0.31762	0.30271	0.30271	0.010	-4.69614	40.00000	Averaged
129 Cyclohexane	0.35845	0.36727	0.36727	0.010	2.46273	40.00000	Averaged
34 1,1-Dichloropropene	0.32805	0.36569	0.36569	0.010	11.47410	40.00000	Averaged
131 n-Butyl alcohol	5007	5000	0.00839	0.001	0.14578	40.00000	Linear
33 Carbon tetrachloride	0.26421	0.29971	0.29971	0.010	13.43856	40.00000	Averaged
37 1,2-Dichloroethane	0.32971	0.36973	0.36973	0.010	12.13799	40.00000	Averaged
38 Benzene	0.99439	1.07380	1.07380	0.010	7.98553	40.00000	Averaged

General Engineering Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA1.i
Lab File ID: 1u430.d
Analysis Type: WATER
Lab Sample ID: UVM060105-01C
Method: /chem/VOA1.i/012606v1.b/VOA1-8260B-012606.m

Injection Date: 26-JAN-2006 22:24
Init. Cal. Date(s): 26-JAN-2006 26-JAN-2006
Init. Cal. Times: 13:45 21:02
Quant Type: ISTD

	COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
	39 Trichloroethylene	0.24013	0.26211	0.26211	0.010	9.15192	40.00000	Averaged	
	41 1,2-Dichloropropane	0.25547	0.28774	0.28774	0.010	12.63120	20.00000	Averaged	ccc
	130 Methylcyclohexane	0.42482	0.45865	0.45865	0.010	7.96511	40.00000	Averaged	
	45 Bromodichloromethane	0.32728	0.36998	0.36998	0.010	13.04600	40.00000	Averaged	
	43 Dibromomethane	0.15703	0.17172	0.17172	0.010	9.35666	40.00000	Averaged	
	44 2-Chloroethylvinyl ether	0.13445	0.14532	0.14532	0.001	8.08843	40.00000	Averaged	
	49 4-Methyl-2-pentanone	0.13941	0.14803	0.14803	0.010	6.17989	40.00000	Averaged	
	46 cis-1,3-Dichloropropylene	0.37561	0.42610	0.42610	0.010	13.44024	40.00000	Averaged	
$	47 Toluene-d8	1.39066	1.56152	1.56152	0.010	12.28591	40.00000	Averaged	
	50 Toluene	0.94348	1.02492	1.02492	0.010	8.63149	20.00000	Averaged	ccc
	53 trans-1,3-Dichloropropylene	0.49893	0.57106	0.57106	0.010	14.45684	40.00000	Averaged	
	54 1,1,2-Trichloroethane	0.27524	0.29483	0.29483	0.010	7.12089	40.00000	Averaged	
	55 2-Hexanone	0.23716	0.24936	0.24936	0.010	5.14331	40.00000	Averaged	
	52 1,3-Dichloropropane	0.58340	0.62569	0.62569	0.010	7.24856	40.00000	Averaged	
	56 Tetrachloroethylene	0.27339	0.28896	0.28896	0.010	5.69691	40.00000	Averaged	
	57 Dibromochloromethane	0.32183	0.36465	0.36465	0.010	13.30350	40.00000	Averaged	
	59 1,2-Dibromoethane	0.30166	0.33253	0.33253	0.010	10.23524	40.00000	Averaged	
	62 Chlorobenzene	0.98220	1.06423	1.06423	0.300	8.35141	40.00000	Averaged	spcc
	60 1,1,1,2-Tetrachloroethane	0.30624	0.34674	0.34674	0.010	13.22465	40.00000	Averaged	
	58 Ethylbenzene	1.72199	1.88034	1.88034	0.010	9.19566	20.00000	Averaged	ccc
	63 m,p-Xylenes	0.62841	0.69822	0.69822	0.010	11.10902	40.00000	Averaged	
	64 o-Xylene	0.61130	0.69349	0.69349	0.010	13.44562	40.00000	Averaged	
	65 Styrene	1.01907	1.16237	1.16237	0.010	14.06135	40.00000	Averaged	
	66 Bromoform	0.45912	0.50211	0.50211	0.100	9.36402	40.00000	Averaged	spcc
	67 Isopropylbenzene	3.15961	3.50212	3.50212	0.010	10.84023	40.00000	Averaged	
	73 1,1,2,2-Tetrachloroethane	0.89770	0.92551	0.92551	0.300	3.09815	40.00000	Averaged	spcc
$	71 Bromofluorobenzene	53.24266	50.00000	1.18756	0.010	6.48531	40.00000	Linear	
	74 1,2,3-Trichloropropane	0.25272	0.27047	0.27047	0.010	7.02257	40.00000	Averaged	
	75 Bromobenzene	0.85969	0.88297	0.88297	0.010	2.70737	40.00000	Averaged	
	76 n-Propylbenzene	4.25733	4.57598	4.57598	0.010	7.48465	40.00000	Averaged	
	77 2-Chlorotoluene	2.91447	3.16805	3.16805	0.010	8.70081	40.00000	Averaged	
	78 1,3,5-Trimethylbenzene	2.68402	2.97846	2.97846	0.010	10.96991	40.00000	Averaged	
	80 4-Chlorotoluene	2.73492	2.82212	2.82212	0.010	3.18837	40.00000	Averaged	
	81 tert-Butylbenzene	2.61437	2.91107	2.91107	0.010	11.34877	40.00000	Averaged	
	79 1,2,4-Trimethylbenzene	2.77929	3.00792	3.00792	0.010	8.22618	40.00000	Averaged	
	83 sec-Butylbenzene	3.66344	4.00162	4.00162	0.010	9.23142	40.00000	Averaged	

General Engineering Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA1.i
Lab File ID: 1u430.d
Analysis Type: WATER
Lab Sample ID: UVM060105-01C
Method: /chem/VOA1.i/012606v1.b/VOA1-8260B-012606.m

Injection Date: 26-JAN-2006 22:24
Init. Cal. Date(s): 26-JAN-2006 26-JAN-2006
Init. Cal. Times: 13:45 21:02
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
84 4-Isopropyltoluene	2.79831	3.05072	3.05072	0.010	9.02028	40.00000	Averaged
85 1,3-Dichlorobenzene	1.55307	1.59649	1.59649	0.010	2.79551	40.00000	Averaged
87 1,4-Dichlorobenzene	1.61315	1.56543	1.56543	0.010	-2.95809	40.00000	Averaged
89 n-Butylbenzene	2.76508	2.88813	2.88813	0.010	4.45017	40.00000	Averaged
90 1,2-Dichlorobenzene	1.46255	1.48140	1.48140	0.010	1.28896	40.00000	Averaged
92 1,2-Dibromo-3-chloropropane	0.12429	0.14541	0.14541	0.010	16.99386	40.00000	Averaged
93 1,2,4-Trichlorobenzene	58.53824	50.00000	0.66851	0.010	17.07647	40.00000	Linear
94 Hexachlorobutadiene	58.18895	50.00000	0.46950	0.010	16.37791	40.00000	Linear
95 Naphthalene	1.52068	1.58791	1.58791	0.010	4.42141	40.00000	Averaged
96 1,2,3-Trichlorobenzene	46.50535	50.00000	0.59636	0.010	-6.98929	40.00000	Linear

Average %D / Drift Results.

Calculated Average %D/Drift = 8.02321
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

Data File: /chem/VOA1.i/020906v1.b/1w402.d
Report Date: 09-Feb-2006 14:30

General Engineering Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA1.i
Lab File ID: 1w402.d
Analysis Type: WATER
Lab Sample ID: W1V060209-01
Method: /chem/VOA1.i/020906v1.b/VOA1-8260B-012606.m

Injection Date: 09-FEB-2006 09:11
Init. Cal. Date(s): 26-JAN-2006 26-JAN-2006
Init. Cal. Times: 13:45 21:02
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M 1 Xylenes (total)	0.62271	0.75804	0.75804	0.050	21.73275	40.00000	Averaged
M 2 1,2-Dichloroethylene (total	0.23923	0.27128	0.27128	0.050	13.39827	40.00000	Averaged
M 135 1,3-Dichloropropylene	0.53343	0.60218	0.60218	0.050	12.88672	40.00000	Averaged
3 Dichlorodifluoromethane	0.28651	0.25094	0.25094	0.050	-12.41555	40.00000	Averaged
4 Chloromethane	0.40648	0.29234	0.29234	0.100	-28.08179	40.00000	Averaged spcc
5 Vinyl chloride	0.37531	0.30082	0.30082	0.050	-19.84588	20.00000	Averaged ccc
6 Bromomethane	0.18880	0.17479	0.17479	0.050	-7.41935	40.00000	Averaged
7 Chloroethane	0.18963	0.17770	0.17770	0.050	-6.29087	40.00000	Averaged
8 Trichlorofluoromethane	0.42683	0.45245	0.45245	0.050	6.00280	40.00000	Averaged
134 Ethyl Ether	0.22138	0.21024	0.21024	0.010	-5.03192	40.00000	Averaged
10 Acetone	250	250	0.06688	0.050	0.18158	40.00000	Linear
15 Acetonitrile	0.02814	0.02468	0.02468	0.010	-12.30685	40.00000	Averaged
11 1,1-Dichloroethylene	0.34366	0.39750	0.39750	0.050	15.66696	20.00000	Averaged ccc
128 Methyl acetate	0.17637	0.16400	0.16400	0.010	-7.01632	40.00000	Averaged
13 Iodomethane	0.33510	0.34157	0.34157	0.050	1.93006	40.00000	Averaged
17 Methylene chloride	66.16509	50.00000	0.26765	0.050	32.33018	40.00000	Linear
14 Carbon disulfide	0.71597	0.71393	0.71393	0.050	-0.28487	40.00000	Averaged
20 tert-Butyl methyl ether	0.67701	0.71905	0.71905	0.050	6.20976	40.00000	Averaged
21 trans-1,2-Dichloroethylene	0.22911	0.25785	0.25785	0.050	12.54344	40.00000	Averaged
23 Vinyl acetate	0.49472	0.45250	0.45250	0.010	-8.53482	40.00000	Averaged
22 1,1-Dichloroethane	0.41775	0.47476	0.47476	0.100	13.64700	40.00000	Averaged spcc
30 2-Butanone	0.10970	0.10572	0.10572	0.030	-3.63014	40.00000	Averaged
31 cis-1,2-Dichloroethylene	0.24935	0.28471	0.28471	0.050	14.18373	40.00000	Averaged
25 2,2-Dichloropropane	0.26365	0.32335	0.32335	0.050	22.64152	40.00000	Averaged
32 Chloroform	0.43659	0.47388	0.47388	0.010	8.54165	20.00000	Averaged ccc
29 Bromochloromethane	0.10794	0.12241	0.12241	0.010	13.39951	40.00000	Averaged
$ 35 Dibromofluoromethane	0.23573	0.24131	0.24131	0.010	2.36756	40.00000	Averaged
36 1,1,1-Trichloroethane	0.29395	0.37623	0.37623	0.010	27.98855	40.00000	Averaged
$ 137 1,2-Dichloroethane-d4	0.31761	0.29844	0.29844	0.010	-6.03725	40.00000	Averaged
129 Cyclohexane	0.36002	0.39313	0.39313	0.010	9.19702	40.00000	Averaged
34 1,1-Dichloropropene	0.32805	0.42061	0.42061	0.010	28.21677	40.00000	Averaged
131 n-Butyl alcohol	4769	5000	0.00797	0.001	-4.62579	40.00000	Linear
33 Carbon tetrachloride	0.26421	0.34573	0.34573	0.010	30.85647	40.00000	Averaged
37 1,2-Dichloroethane	0.32971	0.36226	0.36226	0.010	9.87354	40.00000	Averaged
38 Benzene	0.99439	1.13608	1.13608	0.010	14.24847	40.00000	Averaged

General Engineering Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA1.i
Lab File ID: 1w402.d
Analysis Type: WATER
Lab Sample ID: W1V060209-01
Method: /chem/VOA1.i/020906v1.b/VOA1-8260B-012606.m

Injection Date: 09-FEB-2006 09:11
Init. Cal. Date(s): 26-JAN-2006 26-JAN-2006
Init. Cal. Times: 13:45 21:02
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
39 Trichloroethylene	0.24014	0.28427	0.28427	0.010	18.37590	40.00000	Averaged	
41 1,2-Dichloropropane	0.25547	0.29146	0.29146	0.010	14.08924	20.00000	Averaged	ccc
130 Methylcyclohexane	0.42482	0.51895	0.51895	0.010	22.15925	40.00000	Averaged	
45 Bromodichloromethane	0.32728	0.36026	0.36026	0.010	10.07666	40.00000	Averaged	
43 Dibromomethane	0.15703	0.16590	0.16590	0.010	5.64672	40.00000	Averaged	
44 2-Chloroethylvinyl ether	0.13445	0.12671	0.12671	0.001	-5.75370	40.00000	Averaged	
49 4-Methyl-2-pentanone	0.13941	0.14235	0.14235	0.010	2.10586	40.00000	Averaged	
46 cis-1,3-Dichloropropylene	0.37561	0.43345	0.43345	0.010	15.39887	40.00000	Averaged	
$ 47 Toluene-d8	1.39066	1.48132	1.48132	0.010	6.51932	40.00000	Averaged	
50 Toluene	0.94348	1.06360	1.06360	0.010	12.73133	20.00000	Averaged	ccc
53 trans-1,3-Dichloropropylene	0.49893	0.56756	0.56756	0.010	13.75542	40.00000	Averaged	
54 1,1,2-Trichloroethane	0.27524	0.29014	0.29014	0.010	5.41615	40.00000	Averaged	
55 2-Hexanone	0.23716	0.23285	0.23285	0.010	-1.81864	40.00000	Averaged	
52 1,3-Dichloropropane	0.58340	0.61284	0.61284	0.010	5.04644	40.00000	Averaged	
56 Tetrachloroethylene	0.27245	0.31404	0.31404	0.010	15.26524	40.00000	Averaged	
57 Dibromochloromethane	0.32183	0.34419	0.34419	0.010	6.94764	40.00000	Averaged	
59 1,2-Dibromoethane	0.30166	0.30907	0.30907	0.010	2.45804	40.00000	Averaged	
62 Chlorobenzene	0.98220	1.10507	1.10507	0.300	12.50972	40.00000	Averaged	spcc
60 1,1,1,2-Tetrachloroethane	0.30624	0.35168	0.35168	0.010	14.83588	40.00000	Averaged	
58 Ethylbenzene	1.72199	2.00987	2.00987	0.010	16.71776	20.00000	Averaged	ccc
63 m,p-Xylenes	0.62841	0.76842	0.76842	0.010	22.27973	40.00000	Averaged	
64 o-Xylene	0.61130	0.73728	0.73728	0.010	20.60816	40.00000	Averaged	
65 Styrene	1.01907	1.19958	1.19958	0.010	17.71264	40.00000	Averaged	
66 Bromoform	0.45912	0.47680	0.47680	0.100	3.84941	40.00000	Averaged	spcc
67 Isopropylbenzene	3.15961	4.24339	4.24339	0.010	34.30094	40.00000	Averaged	
73 1,1,2,2-Tetrachloroethane	0.89770	0.89965	0.89965	0.300	0.21750	40.00000	Averaged	spcc
$ 71 Bromofluorobenzene	54.31777	50.00000	1.21177	0.010	8.63553	40.00000	Linear	
74 1,2,3-Trichloropropane	51.22868	50.00000	0.26038	0.010	2.45736	40.00000	Linear	
75 Bromobenzene	0.85969	0.89791	0.89791	0.010	4.44558	40.00000	Averaged	
76 n-Propylbenzene	4.25733	5.28766	5.28766	0.010	24.20124	40.00000	Averaged	
77 2-Chlorotoluene	2.91447	3.50546	3.50546	0.010	20.27794	40.00000	Averaged	
78 1,3,5-Trimethylbenzene	2.68402	2.98285	2.98285	0.010	11.13346	40.00000	Averaged	
80 4-Chlorotoluene	2.73492	3.10663	3.10663	0.010	13.59125	40.00000	Averaged	
81 tert-Butylbenzene	2.61437	3.11558	3.11558	0.010	19.17114	40.00000	Averaged	
79 1,2,4-Trimethylbenzene	2.77929	2.94696	2.94696	0.010	6.03301	40.00000	Averaged	
83 sec-Butylbenzene	3.66344	4.54544	4.54544	0.010	24.07571	40.00000	Averaged	

General Engineering Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA1.i
Lab File ID: 1w402.d
Analysis Type: WATER
Lab Sample ID: W1V060209-01
Method: /chem/VOA1.i/020906v1.b/VOA1-8260B-012606.m

Injection Date: 09-FEB-2006 09:11
Init. Cal. Date(s): 26-JAN-2006 26-JAN-2006
Init. Cal. Times: 13:45 21:02
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
84 4-Isopropyltoluene	2.79831	3.13591	3.13591	0.010	12.06470	40.00000	Averaged	
85 1,3-Dichlorobenzene	1.55307	1.77752	1.77752	0.010	14.45137	40.00000	Averaged	
87 1,4-Dichlorobenzene	1.61315	1.76020	1.76020	0.010	9.11570	40.00000	Averaged	
89 n-Butylbenzene	2.76508	3.13601	3.13601	0.010	13.41466	40.00000	Averaged	
90 1,2-Dichlorobenzene	1.46255	1.59151	1.59151	0.010	8.81742	40.00000	Averaged	
92 1,2-Dibromo-3-chloropropane	0.12429	0.13199	0.13199	0.010	6.19895	40.00000	Averaged	
93 1,2,4-Trichlorobenzene	78.62533	50.00000	0.88803	0.010	57.25066	40.00000	Linear	<-
94 Hexachlorobutadiene	73.38359	50.00000	0.58819	0.010	46.76719	40.00000	Linear	<-
95 Naphthalene	1.52068	1.52781	1.52781	0.010	0.46920	40.00000	Averaged	
96 1,2,3-Trichlorobenzene	54.50415	50.00000	0.69906	0.010	9.00830	40.00000	Linear	

Average %D / Drift Results.

Calculated Average %D/Drift = 13.05855
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

QUALITY CONTROL DATA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) WATER Lab Sample ID: 1201029481

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1W407

Level: (low/med) LOW Date Received: 02/09/06

% Moisture: not dec. _____ Date Analyzed: 02/09/06

GC Column: RTX-VOLATILES ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-35-4	1,1-Dichloroethylene	1.0	U
67-64-1	Acetone	10.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethylene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
108-05-4	Vinyl acetate	5.0	U
78-93-3	2-Butanone	10.0	U
156-59-2	cis-1,2-Dichloroethylene	1.0	U
540-59-0	1,2-Dichloroethylene (total)	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-43-2	Benzene	1.0	U
79-01-6	Trichloroethylene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
110-75-8	2-Chloroethylvinyl ether	5.0	U
10061-01-5	cis-1,3-Dichloropropylene	1.0	U
108-10-1	4-Methyl-2-pentanone	10.0	U
108-88-3	Toluene	1.0	U
10061-02-6	trans-1,3-Dichloropropylene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	10.0	U
127-18-4	Tetrachloroethylene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) WATER Lab Sample ID: 1201029481

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1W407

Level: (low/med) LOW Date Received: 02/09/06

% Moisture: not dec. _____ Date Analyzed: 02/09/06

GC Column: RTX-VOLATILES ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-47-6	o-Xylene	1.0	U
	m,p-Xylenes	2.0	U
1330-20-7	Xylenes (total)	3.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.60	J

FORM I VOA OLM03.0

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) WATER Lab Sample ID: 1201029481

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1W407

Level: (low/med) LOW Date Received: 02/09/06

% Moisture: not dec. _____ Date Analyzed: 02/09/06

GC Column: RTX-VOLATILES ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM I VOA-TIC OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01LCS

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) WATER Lab Sample ID: 1201029484

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1W405CH2M

Level: (low/med) LOW Date Received: 02/09/06

% Moisture: not dec. _____ Date Analyzed: 02/09/06

GC Column: RTX-VOLATILES ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	29.4	
75-01-4	Vinyl chloride	34.2	
74-83-9	Bromomethane	39.2	
75-00-3	Chloroethane	40.1	
75-35-4	1,1-Dichloroethylene	46.2	
67-64-1	Acetone	332	
75-15-0	Carbon disulfide	224	
75-09-2	Methylene chloride	55.1	
156-60-5	trans-1,2-Dichloroethylene	46.1	
75-34-3	1,1-Dichloroethane	47.8	
108-05-4	Vinyl acetate	192	
78-93-3	2-Butanone	241	
156-59-2	cis-1,2-Dichloroethylene	47.7	
540-59-0	1,2-Dichloroethylene (total)	93.8	
67-66-3	Chloroform	46.2	
71-55-6	1,1,1-Trichloroethane	53.8	
56-23-5	Carbon tetrachloride	54.4	
107-06-2	1,2-Dichloroethane	47.7	
71-43-2	Benzene	47.7	
79-01-6	Trichloroethylene	49.0	
78-87-5	1,2-Dichloropropane	47.3	
75-27-4	Bromodichloromethane	48.4	
110-75-8	2-Chloroethylvinyl ether	245	
10061-01-5	cis-1,3-Dichloropropylene	52.8	
108-10-1	4-Methyl-2-pentanone	223	
108-88-3	Toluene	47.7	
10061-02-6	trans-1,3-Dichloropropylene	51.9	
79-00-5	1,1,2-Trichloroethane	45.8	
591-78-6	2-Hexanone	234	
127-18-4	Tetrachloroethylene	48.4	
124-48-1	Dibromochloromethane	47.0	
108-90-7	Chlorobenzene	46.9	
100-41-4	Ethylbenzene	48.6	

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01LCS

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) WATER Lab Sample ID: 1201029484

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1W405CH2M

Level: (low/med) LOW Date Received: 02/09/06

% Moisture: not dec. _____ Date Analyzed: 02/09/06

GC Column: RTX-VOLATILES ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-47-6	o-Xylene	51.3	
	m,p-Xylenes	101	
1330-20-7	Xylenes (total)	152	
100-42-5	Styrene	51.1	
75-25-2	Bromoform	46.3	
79-34-5	1,1,2,2-Tetrachloroethane	43.4	
541-73-1	1,3-Dichlorobenzene	46.6	
106-46-7	1,4-Dichlorobenzene	44.6	
95-50-1	1,2-Dichlorobenzene	45.5	
120-82-1	1,2,4-Trichlorobenzene	66.4	
87-61-6	1,2,3-Trichlorobenzene	45.5	EB

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F16GP001R1MS

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) GROUND WAT Lab Sample ID: 1201029482

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1W410

Level: (low/med) LOW Date Received: 01/26/06

% Moisture: not dec. _____ Date Analyzed: 02/09/06

GC Column: RTX-VOLATILES ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	30.7	
75-01-4	Vinyl chloride	38.1	
74-83-9	Bromomethane	38.6	
75-00-3	Chloroethane	44.3	
75-35-4	1,1-Dichloroethylene	51.0	
67-64-1	Acetone	231	
75-15-0	Carbon disulfide	251	
75-09-2	Methylene chloride	58.5	
156-60-5	trans-1,2-Dichloroethylene	49.9	
75-34-3	1,1-Dichloroethane	51.3	
108-05-4	Vinyl acetate	210	
78-93-3	2-Butanone	230	
156-59-2	cis-1,2-Dichloroethylene	51.0	
540-59-0	1,2-Dichloroethylene (total)	101	
67-66-3	Chloroform	49.6	
71-55-6	1,1,1-Trichloroethane	58.5	
56-23-5	Carbon tetrachloride	59.0	
107-06-2	1,2-Dichloroethane	49.2	
71-43-2	Benzene	51.0	
79-01-6	Trichloroethylene	53.4	
78-87-5	1,2-Dichloropropane	50.8	
75-27-4	Bromodichloromethane	52.1	
110-75-8	2-Chloroethylvinyl ether	12.3	
10061-01-5	cis-1,3-Dichloropropylene	55.6	
108-10-1	4-Methyl-2-pentanone	250	
108-88-3	Toluene	51.6	
10061-02-6	trans-1,3-Dichloropropylene	54.4	
79-00-5	1,1,2-Trichloroethane	49.6	
591-78-6	2-Hexanone	238	
127-18-4	Tetrachloroethylene	53.6	
124-48-1	Dibromochloromethane	51.1	
108-90-7	Chlorobenzene	50.5	
100-41-4	Ethylbenzene	52.2	

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F16GP001R1MS

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) GROUND WAT Lab Sample ID: 1201029482

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1W410

Level: (low/med) LOW Date Received: 01/26/06

% Moisture: not dec. _____ Date Analyzed: 02/09/06

GC Column: RTX-VOLATILES ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-47-6	o-Xylene	54.6	
	m,p-Xylenes	109	
1330-20-7	Xylenes (total)	164	
100-42-5	Styrene	54.9	
75-25-2	Bromoform	51.2	
79-34-5	1,1,2,2-Tetrachloroethane	47.2	
541-73-1	1,3-Dichlorobenzene	51.1	
106-46-7	1,4-Dichlorobenzene	48.5	
95-50-1	1,2-Dichlorobenzene	48.8	
120-82-1	1,2,4-Trichlorobenzene	71.4	
87-61-6	1,2,3-Trichlorobenzene	50.1	EB

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F16GP001R1MSD

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) GROUND WAT Lab Sample ID: 1201029483

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1W411

Level: (low/med) LOW Date Received: 01/26/06

% Moisture: not dec. _____ Date Analyzed: 02/09/06

GC Column: RTX-VOLATILES ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	29.2	
75-01-4	Vinyl chloride	34.4	
74-83-9	Bromomethane	36.6	
75-00-3	Chloroethane	40.5	
75-35-4	1,1-Dichloroethylene	46.1	
67-64-1	Acetone	214	
75-15-0	Carbon disulfide	230	
75-09-2	Methylene chloride	55.6	
156-60-5	trans-1,2-Dichloroethylene	46.5	
75-34-3	1,1-Dichloroethane	48.3	
108-05-4	Vinyl acetate	199	
78-93-3	2-Butanone	212	
156-59-2	cis-1,2-Dichloroethylene	49.6	
540-59-0	1,2-Dichloroethylene (total)	96.0	
67-66-3	Chloroform	47.3	
71-55-6	1,1,1-Trichloroethane	54.3	
56-23-5	Carbon tetrachloride	55.0	
107-06-2	1,2-Dichloroethane	47.4	
71-43-2	Benzene	48.3	
79-01-6	Trichloroethylene	49.7	
78-87-5	1,2-Dichloropropane	48.0	
75-27-4	Bromodichloromethane	50.6	
110-75-8	2-Chloroethylvinyl ether	5.6	
10061-01-5	cis-1,3-Dichloropropylene	54.1	
108-10-1	4-Methyl-2-pentanone	230	
108-88-3	Toluene	48.6	
10061-02-6	trans-1,3-Dichloropropylene	53.8	
79-00-5	1,1,2-Trichloroethane	47.7	
591-78-6	2-Hexanone	219	
127-18-4	Tetrachloroethylene	48.1	
124-48-1	Dibromochloromethane	49.2	
108-90-7	Chlorobenzene	48.7	
100-41-4	Ethylbenzene	49.2	

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F16GP001R1MSD

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) GROUND WAT Lab Sample ID: 1201029483

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1W411

Level: (low/med) LOW Date Received: 01/26/06

% Moisture: not dec. _____ Date Analyzed: 02/09/06

GC Column: RTX-VOLATILES ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-47-6	o-Xylene	52.0	
	m,p-Xylenes	102	
1330-20-7	Xylenes (total)	154	
100-42-5	Styrene	52.3	
75-25-2	Bromoform	48.4	
79-34-5	1,1,2,2-Tetrachloroethane	44.4	
541-73-1	1,3-Dichlorobenzene	48.3	
106-46-7	1,4-Dichlorobenzene	46.6	
95-50-1	1,2-Dichlorobenzene	47.6	
120-82-1	1,2,4-Trichlorobenzene	67.3	
87-61-6	1,2,3-Trichlorobenzene	49.5	EB

FORM I VOA OLM03.0

MISCELLANEOUS DATA

General Engineering Laboratories
Form GEL-NCR
Rev. 06/05

NCR Report No.: 290228
Revision No.:

COMPANY - WIDE NONCONFORMANCE REPORT

Mo.Day Yr.	Division:	Quality Criteria:	Type:
09-FEB-06	Federal	Specifications	Process
Instrument Type:	**Test / Method:**	**Matrix Type:**	**Client Code:**
VOA GC/MS	SW846 8260B	Liquid	CH2M
Batch ID:	**Sample Numbers:**		
502350	See Below		

Potentially affected work order(s)(SDG): 154608

Application Issues:

Failed Recovery for Surrogate or Tracer

Container scanning event for custody missed

Specification and Requirements Nonconformance Description:	NRG Disposition:
1. Container scanning event for custody missed: 154608001,002,003 2. 154608002 failed Toluene-d8 112.3% 154608003 failed Toluene-d8 111.5% Samples failed CH2M limits 88%-110% but passed GEL limits 79%-122%.	1.Samples were scanned to another batch due to the due dates the sample were added to another batch and were not scanned. 2 Report data.

Originator's Name:

John Bell, Jr. 09-FEB-06

Data Validator/Group Leader:

Kurt Lesher 10-FEB-06

Quality Review:

Director:

General Engineering Laboratories, LLC
Revision:11/22/04

ORGANIC RUN LOG - INSTRUMENT ID#VOA1

Date: 1/26/06 Method 8260B Operator: DXL

REVIEWED BY: [illegible]
DATE: 1/27/06

HARDWARE CONFIGURATION & METHOD CONDITIONS SUMMARY No# 1

Daily Instrument Readings:
Multiplier Voltage: 1965

CALIBRATION & CC INFORMATION:

Initial Calibration Date: 1/26/2006 WATER/SOIL

(See pg. 371 for ICAL Std. Sci. Ids)

Sequence Number: 012606V1_ICAL

Daily Standard Solution ID#		Volume Added for Purge (ul) Blk/ Smpl	ICV/CCV	MS/ LCS	BFB
CCV					
IS	UVM060104-01	1	1	1	
SS	UVM060104-02	1	1	1	
LONG/ICV	WVM060126-09		5+5		
BFB	UVM051007-01				1
SHORT/ICV	UVM051206-03B		5		

Purge Amount	
5	Water Purge Vol:ML
N/A	Soil Purge Wt.:G
N/A	Mid level ext. MeOH Vol:
N/A	ul
CO010	Methanol Lot #
x	Heated Purge

Analysis Date	Time	Data File	Lab Sample ID	Client	Batch #	Wt.(g) or Vol(ml/ul)	Dil. Factor	pH	AS Slot #	Matrix w or s	Analyst	Acceptable (Ö/X)	Comments
1/26/06	13:17	1U408.D	UVM051007-01	GEL	BFB	1.0uL + 5.0mL	1	N/A	2	w	DXL	√	FILES 401-407 used for main/troubleshoot.
1/26/06	13:45	1U409.D	WVM060126-01	GEL	ICAL	5.0mL		N/A	3	w	DXL	√	UVM051216-01B+UVM060106-01C
1/26/06	14:12	1U410.D	WVM060126-02	GEL	ICAL	5.0mL	1	N/A	4	w	DXL	√	UVM051216-02B+UVM060106-02C
1/26/06	14:39	1U411.D	WVM060126-02	GEL	ICAL	5.0mL	1	N/A	5	w	DXL	X	UVM051216-02B+UVM060106-02C
1/26/06	15:07	1U412.D	WVM060126-03	GEL	ICAL	5.0mL	1	N/A	6	w	DXL	√	UVM051216-03B+UVM060106-03C
1/26/06	15:34	1U415.D	WVM060126-04	GEL	ICAL	5.0mL	1	N/A	7	w	DXL	√	UVM051216-04B+UVM060106-04C
1/26/06	16:01	1U416.D	WVM060126-05	GEL	ICAL	5.0mL	1	N/A	8	w	DXL	√	UVM051216-05B+UVM060106-05C
1/26/06	16:28	1U417.D	WVM060126-06	GEL	ICAL	5.0mL	1	N/A	9	w	DXL	√	UVM051216-06B+UVM060106-06C
1/26/06	16:56	1U418.D	WVM060126-07	GEL	ICAL	5.0mL	1	N/A	10	w	DXL	√	UVM051216-07B+UVM060106-07C
1/26/06	17:23	1U419.D	WVM060126-08	GEL	ICAL	5.0mL	1	N/A	11	w	DXL	√	UVM051216-08B+UVM060106-08C
1/26/06	17:50	1U420.D	12009------	GEL	BLANK	5.0mL	1	N/A	12	w	DXL	X	CLEAN UP BLANK
1/26/06	18:18	1U421.D	UVM060111-01	GEL	ICAL	5.0mL	1	N/A	13	w	DXL	√	5PPB SHORT
1/26/06	18:45	1U422.D	UVM060111-02	GEL	ICAL	5.0mL	1	N/A	14	w	DXL	√	10PPB SHORT
1/26/06	19:12	1U423.D	UVM060111-03	GEL	ICAL	5.0mL	1	N/A	15	w	DXL	√	25PPB SHORT
1/26/06	19:40	1U424.D	UVM060111-04	GEL	ICAL	5.0mL	1	N/A	16	w	DXL	√	50PPB SHORT
1/26/06	20:07	1U425.D	UVM060111-05	GEL	ICAL	5.0mL	1	N/A	17	w	DXL	√	100PPB SHORT
1/26/06	20:35	1U426.D	UVM060111-06	GEL	ICAL	5.0mL	1	N/A	18	w	DXL	√	250PPB SHORT
1/26/06	21:02	1U427.D	UVM060111-07	GEL	ICAL	5.0mL	1	N/A	19	w	DXL	√	500PPB SHORT
1/26/06	21:29	1U428.D	12009-----	GEL	BLANK	5.0mL	1	N/A	20	w	DXL	X	CLEAN UP BLANK
1/26/06	21:57	1U429.D	WVM060126-09	GEL	LONG/ICV	5.0mL	1	N/A	21	w	DXL	√	UVM051229-01D+IVM060125-01 LONG ICV
1/26/06	22:24	1U430.D	UVM060105-01C	GEL	LONG/ICV	5.0mL	1	N/A	22	w	DXL	X	NOT USED
1/26/06	22:52	1U431.D	UVM051206-03B	GEL	SHORT/ICV	5.0mL	1	N/A	23	w	DXL	√	SHORT ICV

NOTE: DATA FILES 1U413 AND 1U414 WERE NOT SCHEDULED.

SIGNATURE [signature] DATE 01/27/06

General Engineering Laboratories, LLC
Revision:11/22/04

ORGANIC RUN LOG - INSTRUMENT ID#VOA1

Date: 2/9/06 Method 8260B Operator: _____

REVIEWED BY: _____
DATE: _____

HARDWARE CONFIGURATION & METHOD CONDITIONS SUMMARY No# 1

Daily Instrument Readings:
Multiplier Voltage: 1918
JEB 2/9/06

CALIBRATION & CC INFORMATION:

Initial Calibration Date: 1/26/06

(See pg. 372 for ICAL Std. Sci. Ids)

Sequence Number: 020906V6

Daily Standard	Solution ID#	Volume Added for Purge (ul) Blk/ Smpl	CCV	MS/ LCS	BFB
CCV	W1V060209-01		5		
IS	UVM060104-01	1	1	1	
SS	UVM060104-02	1	1	1	
LCS/MS	W1V060209-02			5	
BFB	UVM060104-02				1
SHORT	UVM060123-01a		5		
DHEC LCS	N/A			5	
ABSOLUTE	UVM0602120-01A		5	5	

Purge Amount	
5	Water Purge Vol:ML
	Soil Purge Wt.:G
	Mid level ext. MeOH Vol:
	ul
	Methanol Lot #
x	Heated Purge

Analysis Date Time	Data File	Lab Sample ID	Client	Batch #	Wt.(g) or Vol(ml/ul)	Dil. Factor	pH	AS Slot #	Matrix w or s	Analyst	Acceptable (O/X)	Comments
9 Feb 2006 08:51	1W401.D	UVM060104-02	[redacted]	BFB2	5ML	1	N/A	1	w	JEB	√	
9 Feb 2006 09:11	1W402.D	W1V060209-01	[redacted]	CCV	5.0mL	1	N/A	2	w	JEB	√	
9 Feb 2006 09:50	1W403.D	UVM060123-01A	[redacted]	LCS	5.0mL	1	N/A	3	w	JEB	√	
9 Feb 2006 10:17	1W404.D	UVM060204-01A	[redacted]	LCS	5.0mL	1	N/A	4	w	JEB	√	
9 Feb 2006 10:46	1W405.D	W1V060209-02	[redacted]	LCS	5.0mL	1	N/A	3	w	JEB	√	
9 Feb 2006 11:13	1W406.D	12009-----	[redacted]	BLANK	5ML	1	---	6	w	JEB	√	
9 Feb 2006 11:41	1W407.D	12009-----	[redacted]	BLANK	5ML	1	---	7	w	JEB	√	
9 Feb 2006 12:49	1W408.D	154608003	CH2M	501603	5ML	1	PH2	8	w	JEB	√	
9 Feb 2006 13:17	1W409.D	154608002	CH2M	501603	5ML	1	PH2	9	w	JEB	√	
9 Feb 2006 13:45	1W410.D	1201029482	CH2M	502322	5ML	1	PH2	10	w	JEB	√	154608001MS
9 Feb 2006 14:13	1W411.D	1201029483	CH2M	502322	5ML	1	PH2	11	w	JEB	√	154608001MSD
9 Feb 2006 14:41	1W412.D	blank	[redacted]	N/A	5ML	1	N/A	12	w	JEB	√	
9 Feb 2006 15:11	1W413.D	154608001	CH2M	502322	5ML	1	PH2	13	w	JEB	√	
9 Feb 2006 15:39	1W414.D	155368003	[redacted]	501980	5ML	1	PH2	14	w	JEB	√	
9 Feb 2006 16:07	1W415.D	155368005	[redacted]	501980	5ML	1	PH2	15	w	JEB	√	

NOTE:

GC/MS SEMIVOLATILE ANALYSIS

Semi-Volatile Case Narrative
CH2M Hill (CH2M)
SDG 154608

Method/Analysis Information

Procedure:	**Semi-volatile Analysis by Gas Chromatograph/Mass Spectrometer**
Analytical Method:	SW846 8270C
Prep Method:	SW846 3510C
Analytical Batch Number:	499181
Prep Batch Number:	499180

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 8270C:

Sample ID	Client ID
154608001	F16GP001R1
154608002	F16EP001R1
1201021838	Method Blank (MB)
1201021839	Laboratory Control Sample (LCS)
1201021840	154608001(F16GP001R1) Matrix Spike (MS)
1201021841	154608001(F16GP001R1) Matrix Spike Duplicate (MSD)

Preparation/Analytical Method Verification

Procedures for preparation, analysis, and reporting of analytical data are documented by General Engineering Laboratories, LLC (GEL) as Standard Operating Procedure (SOP) GL-OA-E-009, Rev. 15.

Calibration Information

Due to software limitations, the files displayed at the beginning of the Form 6 are only the last files uploaded for each individual level. A complete listing of all files used in the current ICAL are shown on the Calibration History that is included with each Level 4 or higher package. The last file by date in each level is the one currently uploaded for that level.

Diphenylamine has now superseded N-Nitroso-diphenylamine as a CCC on Quantitation Reports, Initial Calibration

Reports, Calibration Check Standard Reports, etc. Previous versions of EPA Method 8270 (prior to 8270C) listed N-Nitroso-diphenylamine as a CCC. However, as stated in EPA Method 8270C, Revision 3, December, 1996, Section 1.4.5, "N-Nitroso-diphenylamine decomposes in the gas chromatographic inlet and cannot be separated from Diphenylamine." Studies of these two compounds at GEL, both independent of each other and together, show that they not only co-elute, but also have similar mass spectra. N-Nitroso-diphenylamine and Diphenylamine will be reported as Diphenylamine on all reports and forms.

When calibrations are performed for Appendix IX compounds some of the compounds may not be calibrated exactly according to the criteria in Method 8270C. If the %RSD is greater than 15% or the correlation coefficient is less that 0.99 then the analyte is quantitated using the response factor. If the analyte is detected then the sample is re-analyzed for that analyte on an instrument that is compliant with the criteria in the method.

Initial Calibration
All initial calibration requirements have been met for this sample delivery group (SDG). A second source initial calibration verification (ICV) was included in the standard section directly behind the initial calibration.

CCV Requirements
All associated calibration verification standard(s) (ICV or CCV) met the acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement
The MB analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries
The surrogate recoveries met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery
The LCS spike recoveries met the acceptance limits.

QC Sample Designation
Sample 154608001 (F16GP001R1) was selected for analysis as the matrix spike and matrix spike duplicate.

Matrix Spike (MS) Recovery Statement
The MS recoveries were not within the acceptance limits. The failures confirm in the MSD and were attributed to matrix interference. Please see the Form III for the specific recoveries.

Matrix Spike Duplicate (MSD) Recovery Statement
The MSD recoveries were not within the acceptance limits. The failures confirm in the MS and were attributed to matrix interference. Please see the Form III for the specific recoveries.

MS/MSD Relative Percent Difference (RPD) Statement
The relative percent differences (RPD) were not within the acceptance limits. The failures were attributed to matrix interference. Please see the Form III for the specific recoveries.

Internal Standard (ISTD) Acceptance
The internal standard responses were within the required acceptance criteria for all samples and QC.

Technical Information:

Holding Time Specifications
All samples in this SDG met the specified holding time. GEL assigns holding times based on the associated

methodology that assigns the date and time from sample collection or sample receipt. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration.

Preparation/Analytical Method Verification
All procedures were performed as stated in the SOP.

Sample Dilutions
Samples 1201021840 (F16GP001R1), 1201021841 (F16GP001R1) and 154608001 (F16GP001R1) were diluted because the extracts were very dark and viscous.

Sample Re-extraction/Re-analysis
Re-extractions or re-analyses were not required in this SDG except for confirmations and/or dilutions.

Miscellaneous Information:

Nonconformance (NCR) Documentation
The following NCR was generated for this SDG: 289976. It is located in the Miscellaneous Section of the data report.

Manual Integrations
Some initial calibration standards, continuing calibration standards, and/or samples may require manual integrations due to software limitations. Please see the raw data in the Miscellaneous Section.

Additional Comments
Additional comments were not required for this SDG.

Electronic Package Comment

The following package was generated using an electronic data processing program referred to as "virtual packaging". In an effort to increase quality and efficiency, the laboratory is developing systems to eventually generate all data packages electronically. The following change from "traditional" packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative of each electronic package will indicate the analyst, reviewer, and report specialist names associated with the generation of the data and package. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

System Configuration

The laboratory utilizes a HP 6890 Series gas chromatograph and a HP 5973 Mass Selective Detector. The configuration is equipped with the electronic pressure control. All MS interfaces are capillary direct.

Chromatographic Columns

Chromatographic separation of semi-volatile components is accomplished through analysis on one or more of the following columns (all with dimensions of 30 meters x 0.25 millimeters ID and 0.25 micron film except J&W DB-5MS2 and Phenomenex ZB-5ms which are 25 meters x 0.20 mm ID and 0.33 micron film).

Instrument Configuration

The samples reported in this SDG were analyzed on one or more of the following instrument systems. Instrument systems are referenced in the raw data and individual form headers by the Instrument ID designations listed below:

The Semi-Volatiles-GC/MS analysis was performed on a HP Mass Spectrometer.

Instrument ID	System Configuration	Column ID	Column Description
MSD8.I	HP6890/HP5973	DB-5MS	25m x 0.2mm, 0.33um (5% Phenylmethylpolysiloxane)

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

Reviewer: Dana B. Beckley **Date:** 2-15-06

Roadmap for CH2M 154608 SVOA

This roadmap was analyzed by Nathan Greene on 02-10-2006, 14:08.
This roadmap was reviewed by Daniel Beacham on 02-10-2006, 15:25.
This roadmap was packaged by Sherri Brown on 02-13-2006, 09:52.
This roadmap was validated by Daniel Beacham on 02-15-2006, 14:22.

Sample

exclude	manual	datafile	smpid	injdate	injtime	sublist	clientid	dilution	comment
☐	N	/chem/MSD8.i/s020206.b/s8b0227.d	154608001	02-FEB-2006	20:34	154608.sub	F16GP001R1	10	
☐	N	/chem/MSD8.i/s020206.b/s8b0230.d	154608002	02-FEB-2006	21:39	154608.sub	F16EP001R1	1	

QC Sample

exclude	manual	datafile	smpid	sampletype	injdate	injtime	sublist	clientid	dilution	comment
☐	N	/chem/MSD8.i/s020206.b/s8b0225-1.d	1201021838	mb	02-FEB-2006	19:50	154608.sub	SBLK01	1	
☐	N	/chem/MSD8.i/s020206.b/s8b0226-1.d	1201021839	lcs	02-FEB-2006	20:12	154608.sub	SBLK01LCS	1	failed C48 high - no hits above PQL in samples
☐	N	/chem/MSD8.i/s020206.b/s8b0228.d	1201021840	ms	02-FEB-2006	20:56	154608.sub	F16GP001R1MS	10	failed surr and spike - confirms MSD
☐	N	/chem/MSD8.i/s020206.b/s8b0229.d	1201021841	msd	02-FEB-2006	21:18	154608.sub	F16GP001R1MSD	10	failed surr and spike - confirms MS

QUALITY CONTROL SUMMARY

2C
GROUND WATER SVOA SURROGATE RECOVERY

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

	EPA SAMPLE NO.	S1 (2FP)#	S2 (PHL)#	S3 (NBZ)#	S4 (FBP)#	S5 (TBP)#	S6 (TPH)#	TOT OUT
01	SBLK01	44	27	85	76	58	80	0
02	SBLK01LCS	44	27	86	74	75	74	0
03	F16GP001R1	24	20	41	30D	23	24D	0
04	F16GP001R1MS	6D	14	41	23D	5D	18D	0
05	F16GP001R1MSD	1D	8D	28D	17D	1D	13D	0
06	F16EP001R1	47	30	88	81	60	93	0
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

		QC LIMITS
S1 (2FP)	= 2-Fluorophenol	(21-110)
S2 (PHL)	= Phenol-d5	(10-110)
S3 (NBZ)	= Nitrobenzene-d5	(35-114)
S4 (FBP)	= 2-Fluorobiphenyl	(43-116)
S5 (TBP)	= 2,4,6-Tribromophenol	(10-123)
S6 (TPH)	= p-Terphenyl-d14	(33-141)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3C

GROUND WATER SVOA MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix Spike - EPA Sample No.: F16GP001R1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Phenol	200	0.0	24.0	12*	23- 64
2-Chlorophenol	200	0.0	0.0	0*	46- 93
N-Nitrosodipropylamine	100	0.0	0.0	0*	58- 98
4-Chloro-3-methylphenol	200	0.0	59.0	30*	43-116
Acenaphthene	100	4.5	22.1	18*	56-109
2,4-Dinitrotoluene	100	0.0	398	398*	53-118
4-Nitrophenol	200	0.0	171	86	21- 88
Pentachlorophenol	200	0.0	150	75	34-117
Pyrene	100	14.4	31.7	17*	50-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	200	0.0	0*		23	23- 64
2-Chlorophenol	200	0.0	0*		26	46- 93
N-Nitrosodipropylamine	100	0.0	0*		28	58- 98
4-Chloro-3-methylphenol	200	42.6	21*	35*	22	43-116
Acenaphthene	100	18.8	14*	25*	23	56-109
2,4-Dinitrotoluene	100	402	402*	1	19	53-118
4-Nitrophenol	200	166	83	4	26	21- 88
Pentachlorophenol	200	0.0	0*		26	34-117
Pyrene	100	24.7	10*	52*	31	50-130

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 3 out of 9 outside limits
Spike Recovery: 15 out of 18 outside limits

COMMENTS: _____

FORM III SV-1 OLM03.0

3C
GROUND WATER SVOA LAB CONTROL SAMPLE

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix Spike - EPA Sample No.: SBLK01

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Phenol	100	0.0	29.3	29	18- 42
2-Chlorophenol	100	0.0	70.5	70	45- 90
N-Nitrosodipropylamine	50.0	0.0	40.2	80	48-104
4-Chloro-3-methylphenol	100	0.0	84.4	84	53-102
Acenaphthene	50.0	0.0	39.3	79	50-109
2,4-Dinitrotoluene	50.0	0.0	44.9	90	51-116
4-Nitrophenol	100	0.0	34.7	35	13- 53
Pentachlorophenol	100	0.0	64.2	64	41-111
Pyrene	50.0	0.0	37.5	75	56-122

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 9 outside limits

COMMENTS: _____

FORM III SV-1 OLM03.0

4B

SVOA METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK01

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Lab File ID: S8B0225-1 Lab Sample ID: 1201021838

Instrument ID: MSD8 Date Extracted: 02/02/06

Matrix: (soil/water) GROUND WATER Date Analyzed: 02/02/06

Level:(low/med) LOW Time Analyzed: 1950

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLK01LCS	1201021839	S8B0226-1	02/02/06
02	F16GP001R1	154608001	S8B0227	02/02/06
03	F16GP001R1MS	1201021840	S8B0228	02/02/06
04	F16GP001R1MSD	1201021841	S8B0229	02/02/06
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5B

SVOA ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Lab File ID: S8A1801 DFTPP Injection Date: 01/18/06

Instrument ID: MSD8 DFTPP Injection Time: 1338

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	40.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	33.8
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	40.0 - 60.0% of mass 198	49.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	21.0
365	Greater than 1.0% of mass 198	2.25
441	Present, but less than mass 443	10.1
442	Greater than 40.0% of mass 198	61.2
443	17.0 - 23.0% of mass 442	11.9 (19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	BNAICAL001	UBN060105-01	S8A1803	01/18/06	1414
02	BNAICAL010	UBN060105-02	S8A1804	01/18/06	1435
03	BNAICAL020	UBN060105-03	S8A1805	01/18/06	1457
04	BNAICAL040	UBN060105-04	S8A1806	01/18/06	1518
05	BNAICAL050	UBN060105-05	S8A1807	01/18/06	1539
06	BNAICAL080	UBN060105-06	S8A1808	01/18/06	1601
07	BNAICAL100	UBN060105-07	S8A1809	01/18/06	1623
08	BNAICAL120	UBN060105-08	S8A1810	01/18/06	1645
09	BNAICV	UBN060113-44.2	S8A1812-ICV-SC	01/18/06	1729
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5B

SVOA ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Lab File ID: S8B0201 DFTPP Injection Date: 02/02/06

Instrument ID: MSD8 DFTPP Injection Time: 1113

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	35.2
70	Less than 2.0% of mass 69	0.2 (0.6)1
127	40.0 - 60.0% of mass 198	52.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	21.6
365	Greater than 1.0% of mass 198	2.86
441	Present, but less than mass 443	9.1
442	Greater than 40.0% of mass 198	53.5
443	17.0 - 23.0% of mass 442	10.5 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	BNACVS	UBN060127-01.1	S8B0202-SC	02/02/06	1129
02	ANBZCVS	UBN060127-02.1	S8B0203-SC	02/02/06	1151
03	SBLK01	1201021838	S8B0225-1	02/02/06	1950
04	SBLK01LCS	1201021839	S8B0226-1	02/02/06	2012
05	F16GP001R1	154608001	S8B0227	02/02/06	2034
06	F16GP001R1MS	1201021840	S8B0228	02/02/06	2056
07	F16GP001R1MSD	1201021841	S8B0229	02/02/06	2118
08	F16EP001R1	154608002	S8B0230	02/02/06	2139
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8B
SVOA INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Lab File ID (Standard): S8B0202-SC Date Analyzed: 02/02/06

Instrument ID: MSD8 Time Analyzed: 1129

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	473975	3.92	1985263	4.79	979558	6.03
	UPPER LIMIT	947950	4.42	3970526	5.29	1959116	6.53
	LOWER LIMIT	236988	3.42	992632	4.29	489779	5.53
	EPA SAMPLE NO.						
01	SBLK01	448053	3.92	1832209	4.79	1008047	6.03
02	SBLK01LCS	435571	3.92	1883329	4.79	962609	6.03
03	F16GP001R1	432059	3.92	1839394	4.78	1009476	6.04
04	F16GP001R1MS	446184	3.92	1909084	4.79	1045776	6.04
05	F16GP001R1MSD	470187	3.92	1999561	4.79	1084903	6.04
06	F16EP001R1	411702	3.92	1759653	4.79	979638	6.04
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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 internal standard area values with an asterisk.
* Values outside of QC limits.

8C

SVOA INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Lab File ID (Standard): S8B0202-SC Date Analyzed: 02/02/06

Instrument ID: MSD8 Time Analyzed: 1129

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	1591089	7.01	997507	8.60	600302	9.78
	UPPER LIMIT	3182178	7.51	1995014	9.10	1200604	10.28
	LOWER LIMIT	795544	6.51	498754	8.10	300151	9.28
	EPA SAMPLE NO.						
01	SBLK01	1651139	7.02	935186	8.59	578358	9.78
02	SBLK01LCS	1507571	7.02	966135	8.60	627493	9.78
03	F16GP001R1	1527908	7.02	841983	8.59	570604	9.78
04	F16GP001R1MS	1590083	7.02	777267	8.60	420286	9.78
05	F16GP001R1MSD	1689182	7.02	835094	8.59	476278	9.78
06	F16EP001R1	1525570	7.02	760693	8.59	430606	9.77
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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 internal standard area values with an asterisk.
* Values outside of QC limits.

SAMPLE DATA

1B
SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F16EP001R1

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) GROUND WAT Lab Sample ID: 154608002

Sample wt/vol: 950.0 (g/mL) ML Lab File ID: S8B0230

Level: (low/med) LOW Date Received: 01/26/06

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/02/06

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 02/02/06

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10.5	U
111-44-4	bis(2-Chloroethyl) ether	10.5	U
95-57-8	2-Chlorophenol	10.5	U
100-51-6	Benzyl alcohol	10.5	U
108-60-1	bis(2-Chloroisopropyl)ether	10.5	U
95-48-7	o-Cresol	10.5	U
621-64-7	N-Nitrosodipropylamine	10.5	U
65794-96-9	m,p-Cresols	10.5	U
67-72-1	Hexachloroethane	10.5	U
98-95-3	Nitrobenzene	10.5	U
78-59-1	Isophorone	10.5	U
88-75-5	2-Nitrophenol	10.5	U
105-67-9	2,4-Dimethylphenol	10.5	U
111-91-1	bis(2-Chloroethoxy)methane	10.5	U
120-83-2	2,4-Dichlorophenol	10.5	U
65-85-0	Benzoic acid	52.6	U
91-20-3	Naphthalene	10.5	U
106-47-8	4-Chloroaniline	10.5	U
87-68-3	Hexachlorobutadiene	10.5	U
59-50-7	4-Chloro-3-methylphenol	10.5	U
91-57-6	2-Methylnaphthalene	10.5	U
77-47-4	Hexachlorocyclopentadiene	10.5	U
88-06-2	2,4,6-Trichlorophenol	10.5	U
95-95-4	2,4,5-Trichlorophenol	52.6	U
91-58-7	2-Chloronaphthalene	10.5	U
88-74-4	o-Nitroaniline	52.6	U
99-09-2	m-Nitroaniline	52.6	U
131-11-3	Dimethylphthalate	10.5	U
606-20-2	2,6-Dinitrotoluene	10.5	U
208-96-8	Acenaphthylene	10.5	U
83-32-9	Acenaphthene	10.5	U
51-28-5	2,4-Dinitrophenol	52.6	U
132-64-9	Dibenzofuran	10.5	U

FORM I SV-1 OLM03.0

1C
SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F16EP001R1

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) GROUND WAT Lab Sample ID: 154608002

Sample wt/vol: 950.0 (g/mL) ML Lab File ID: S8B0230

Level: (low/med) LOW Date Received: 01/26/06

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/02/06

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 02/02/06

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10.5	U
84-66-2	Diethylphthalate	10.5	U
100-02-7	4-Nitrophenol	52.6	U
86-73-7	Fluorene	10.5	U
7005-72-3	4-Chlorophenylphenylether	10.5	U
534-52-1	2-Methyl-4,6-dinitrophenol	52.6	U
100-01-6	p-Nitroaniline	52.6	U
122-39-4	Diphenylamine	10.5	U
101-55-3	4-Bromophenylphenylether	10.5	U
118-74-1	Hexachlorobenzene	10.5	U
87-86-5	Pentachlorophenol	52.6	U
85-01-8	Phenanthrene	10.5	U
120-12-7	Anthracene	10.5	U
84-74-2	Di-n-butylphthalate	10.5	U
206-44-0	Fluoranthene	10.5	U
129-00-0	Pyrene	10.5	U
85-68-7	Butylbenzylphthalate	10.5	U
56-55-3	Benzo(a)anthracene	10.5	U
91-94-1	3,3'-Dichlorobenzidine	21.0	U
218-01-9	Chrysene	10.5	U
117-81-7	bis(2-Ethylhexyl)phthalate	10.5	U
117-84-0	Di-n-octylphthalate	10.5	U
205-99-2	Benzo(b)fluoranthene	10.5	U
207-08-9	Benzo(k)fluoranthene	10.5	U
50-32-8	Benzo(a)pyrene	10.5	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.5	U
53-70-3	Dibenzo(a,h)anthracene	10.5	U
191-24-2	Benzo(ghi)perylene	10.5	U
86-74-8	Carbazole	10.5	U

FORM I SV-2 OLM03.0

1F
SVOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F16EP001R1

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) GROUND WATER Lab Sample ID: 154608002

Sample wt/vol: 950.0 (g/mL) ML Lab File ID: S8B0230

Level: (low/med) LOW Date Received: 01/26/06

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/02/06

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 02/02/06

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.18	5.5	J
2.	UNKNOWN	3.37	15.9	J
3.	UNKNOWN	3.45	4.8	J
4.	UNKNOWN	3.52	10.7	J
5. 4291-79-6	CYCLOHEXANE, 1-METHYL-2-PROP	3.54	8.5	NJ
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FORM I SV-TIC OLM03.0

1B
SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F16GP001R1

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) GROUND WAT Lab Sample ID: 154608001

Sample wt/vol: 1030 (g/mL) ML Lab File ID: S8B0227

Level: (low/med) LOW Date Received: 01/26/06

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/02/06

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 02/02/06

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	97.1	U
111-44-4	bis(2-Chloroethyl) ether	97.1	U
95-57-8	2-Chlorophenol	97.1	U
100-51-6	Benzyl alcohol	97.1	U
108-60-1	bis(2-Chloroisopropyl)ether	97.1	U
95-48-7	o-Cresol	97.1	U
621-64-7	N-Nitrosodipropylamine	97.1	U
65794-96-9	m,p-Cresols	97.1	U
67-72-1	Hexachloroethane	97.1	U
98-95-3	Nitrobenzene	97.1	U
78-59-1	Isophorone	97.1	U
88-75-5	2-Nitrophenol	97.1	U
105-67-9	2,4-Dimethylphenol	97.1	U
111-91-1	bis(2-Chloroethoxy)methane	97.1	U
120-83-2	2,4-Dichlorophenol	97.1	U
65-85-0	Benzoic acid	485	U
91-20-3	Naphthalene	97.1	U
106-47-8	4-Chloroaniline	97.1	U
87-68-3	Hexachlorobutadiene	97.1	U
59-50-7	4-Chloro-3-methylphenol	97.1	U
91-57-6	2-Methylnaphthalene	97.1	U
77-47-4	Hexachlorocyclopentadiene	97.1	U
88-06-2	2,4,6-Trichlorophenol	97.1	U
95-95-4	2,4,5-Trichlorophenol	485	U
91-58-7	2-Chloronaphthalene	97.1	U
88-74-4	o-Nitroaniline	485	U
99-09-2	m-Nitroaniline	485	U
131-11-3	Dimethylphthalate	97.1	U
606-20-2	2,6-Dinitrotoluene	97.1	U
208-96-8	Acenaphthylene	97.1	U
83-32-9	Acenaphthene	4.5	J
51-28-5	2,4-Dinitrophenol	485	U
132-64-9	Dibenzofuran	97.1	U

FORM I SV-1 OLM03.0

1C
SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F16GP001R1

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) GROUND WAT Lab Sample ID: 154608001

Sample wt/vol: 1030 (g/mL) ML Lab File ID: S8B0227

Level: (low/med) LOW Date Received: 01/26/06

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/02/06

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 02/02/06

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	97.1	U
84-66-2	Diethylphthalate	97.1	U
100-02-7	4-Nitrophenol	485	U
86-73-7	Fluorene	97.1	U
7005-72-3	4-Chlorophenylphenylether	97.1	U
534-52-1	2-Methyl-4,6-dinitrophenol	485	U
100-01-6	p-Nitroaniline	485	U
122-39-4	Diphenylamine	97.1	U
101-55-3	4-Bromophenylphenylether	97.1	U
118-74-1	Hexachlorobenzene	97.1	U
87-86-5	Pentachlorophenol	485	U
85-01-8	Phenanthrene	97.1	U
120-12-7	Anthracene	97.1	U
84-74-2	Di-n-butylphthalate	97.1	U
206-44-0	Fluoranthene	5.6	J
129-00-0	Pyrene	14.4	J
85-68-7	Butylbenzylphthalate	97.1	U
56-55-3	Benzo(a)anthracene	97.1	U
91-94-1	3,3'-Dichlorobenzidine	194	U
218-01-9	Chrysene	4.5	J
117-81-7	bis(2-Ethylhexyl)phthalate	97.1	U
117-84-0	Di-n-octylphthalate	97.1	U
205-99-2	Benzo(b)fluoranthene	97.1	U
207-08-9	Benzo(k)fluoranthene	97.1	U
50-32-8	Benzo(a)pyrene	97.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	97.1	U
53-70-3	Dibenzo(a,h)anthracene	97.1	U
191-24-2	Benzo(ghi)perylene	97.1	U
86-74-8	Carbazole	97.1	U

FORM I SV-2 OLM03.0

1F

SVOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

F16GP001R1

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) GROUND WATER Lab Sample ID: 154608001

Sample wt/vol: 1030 (g/mL) ML Lab File ID: S8B0227

Level: (low/med) LOW Date Received: 01/26/06

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/02/06

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 02/02/06

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 3031-15-0	NAPHTHALENE, 1,2,3,4-TETRAME	6.50	85.5	NJ
2.	UNKNOWN	6.63	113	J
3. 2717-39-7	1,4,5,8-TETRAMETHYLNAPHTHALE	6.68	90.7	NJ
4.	UNKNOWN	6.75	90.3	J
5.	UNKNOWN	6.78	114	J
6.	UNKNOWN	6.97	116	J
7.	UNKNOWN	7.10	107	J
8.	UNKNOWN	7.15	136	J
9.	UNKNOWN	7.20	98.7	J
10.	UNKNOWN	7.22	105	J
11.	UNKNOWN	7.26	104	J
12.	UNKNOWN	7.30	108	J
13.	UNKNOWN	7.32	133	J
14.	UNKNOWN	7.40	135	J
15.	UNKNOWN	7.43	134	J
16.	UNKNOWN	7.46	121	J
17.	UNKNOWN	7.49	107	J
18.	UNKNOWN	7.51	106	J
19.	UNKNOWN	7.58	113	J
20. 2789-88-0	DI-P-TOLYLACETYLENE	7.64	195	J
21. 38371-84-5	PHENOL, 2-[5-(2-FURANYL)-3-1	7.70	85.4	NJ
22.	UNKNOWN	7.82	199	J
23.	UNKNOWN	7.87	161	J
24.	UNKNOWN	7.96	164	J
25. 309735-29-3	1,2-BENZISOTHIAZOLE, 3-(HEXA	8.12	130	NJ
26.	UNKNOWN	8.15	217	J
27.	UNKNOWN	8.22	224	J
28.	UNKNOWN	8.31	160	J
29. 5523-49-9	18,19-SECOYOHIMBAN-19-OIC AC	8.40	154	NJ
30.	UNKNOWN	8.48	158	J

FORM I SV-TIC OLM03.0

STANDARDS DATA

SW846 8270C/EPA 625

Calibration Standard Concentration Levels*

	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
1,4-Dichlorobenzene-d4 (INTERNAL STANDARD)								
Naphthalene-d8 (INTERNAL STANDARD)								
Acenaphthene-d10 (INTERNAL STANDARD)								
Phenanthrene-d10 (INTERNAL STANDARD)								
Chrysene-d12 (INTERNAL STANDARD)								
Perylene-d12 (INTERNAL STANDARD)								
2-Fluorophenol (SURROGATE)		10	20	40	50	80	100	120
Phenol-d5 (SURROGATE)		10	20	40	50	80	100	120
2-Chlorophenol-d4 (CLP SURROGATE)		10	20	40	50	80	100	120
1,2-Dichlorobenzene-d4 (CLP SURROGATE)		10	20	40	50	80	100	120
Nitrobenzene-d5 (SURROGATE)		10	20	40	50	80	100	120
2-Fluorobiphenyl (SURROGATE)		10	20	40	50	80	100	120
2,4,6-Tribromophenol (SURROGATE)		10	20	40	50	80	100	120
p-Terphenyl-d14 (SURROGATE)		10	20	40	50	80	100	120
N-Nitrosodimethylamine		10	20	40	50	80	100	120
Pyridine		10	20	40	50	80	100	120
Aniline		10	20	40	50	80	100	120
Benzaldehyde		10	20	40	50	80	100	120
Phenol		10	20	40	50	80	100	120
bis(2-Chloroethyl)ether		10	20	40	50	80	100	120
2-Chlorophenol		10	20	40	50	80	100	120
n-Decane		10	20	40	50	80	100	120
1,3-Dichlorobenzene		10	20	40	50	80	100	120
1,4-Dichlorobenzene		10	20	40	50	80	100	120
Benzyl Alcohol		10	20	40	50	80	100	120
1,2-Dichlorobenzene		10	20	40	50	80	100	120
bis(2-Chloroisopropyl)ether		10	20	40	50	80	100	120
o-Cresol (2-Methylphenol)		10	20	40	50	80	100	120
Acetophenone		10	20	40	50	80	100	120
N-Nitrosodipropylamine		10	20	40	50	80	100	120
m,p-Cresols (3-Methylphenol & 4-Methylphenol)		10	20	40	50	80	100	120
Hexachloroethane		10	20	40	50	80	100	120
Nitrobenzene		10	20	40	50	80	100	120
Isophorone		10	20	40	50	80	100	120
2-Nitrophenol		10	20	40	50	80	100	120
2,4-Dimethylphenol		10	20	40	50	80	100	120
bis(2-Chloroethoxy)methane		10	20	40	50	80	100	120
2,4-Dichlorophenol		10	20	40	50	80	100	120
Benzoic Acid			20	40	50	80	100	120
1,2,4-Trichlorobenzene		10	20	40	50	80	100	120
Naphthalene	1	10	20	40	50	80	100	120
alpha-Terpineol		10	20	40	50	80	100	120
4-Chloroaniline		10	20	40	50	80	100	120

Caprolactam		10	20	40	50	80	100	120

SW846 8270C/EPA 625								
Calibration Standard Concentration Levels*								
	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
Hexachlorobutadiene		10	20	40	50	80	100	120
4-Chloro-3-methylphenol		10	20	40	50	80	100	120
2-Methylnaphthalene	1	10	20	40	50	80	100	120
1-Methylnaphthalene	1	10	20	40	50	80	100	120
Hexachlorocyclopentadiene		10	20	40	50	80	100	120
1,1'-Biphenyl		10	20	40	50	80	100	120
2,3-Dichloroaniline		10	20	40	50	80	100	120
2,4,6-Trichlorophenol		10	20	40	50	80	100	120
2,4,5-Trichlorophenol		10	20	40	50	80	100	120
2-Chloronaphthalene	1	10	20	40	50	80	100	120
o-Nitroaniline		10	20	40	50	80	100	120
m-Nitroaniline		10	20	40	50	80	100	120
Dimethylphthalate		10	20	40	50	80	100	120
2,6-Dinitrotoluene		10	20	40	50	80	100	120
Acenaphthylene	1	10	20	40	50	80	100	120
Acenaphthene	1	10	20	40	50	80	100	120
2,4-Dinitrophenol			20	40	50	80	100	120
Dibenzofuran		10	20	40	50	80	100	120
2,4-Dinitrotoluene		10	20	40	50	80	100	120
Diethylphthalate		10	20	40	50	80	100	120
4-Nitrophenol		10	20	40	50	80	100	120
Fluorene	1	10	20	40	50	80	100	120
4-Chlorophenyl phenyl ether		10	20	40	50	80	100	120
2-Methyl-4,6-dinitrophenol		10	20	40	50	80	100	120
p-Nitroaniline		10	20	40	50	80	100	120
Diphenylamine		10	20	40	50	80	100	120
1,2-Diphenylhydrazine		10	20	40	50	80	100	120
Tributylphosphate		10	20	40	50	80	100	120
4-Bromophenyl phenyether		10	20	40	50	80	100	120
Hexachlorobenzene		10	20	40	50	80	100	120
Atrazine		10	20	40	50	80	100	120
Pentachlorophenol		10	20	40	50	80	100	120
n-Octadecane		10	20	40	50	80	100	120
Phenanthrene	1	10	20	40	50	80	100	120
Anthracene	1	10	20	40	50	80	100	120
Di-n-butylphthalate		10	20	40	50	80	100	120
Fluoranthene	1	10	20	40	50	80	100	120
Benzidine	10	20	50	100	150	200	250	300
Pyrene	1	10	20	40	50	80	100	120
Butylbenzylphthalate		10	20	40	50	80	100	120
Benzo(a)anthracene	1	10	20	40	50	80	100	120
3,3'-Dichlorobenzidene	10	20	50	100	150	200	250	300

Chrysene	1	10	20	40	50	80	100	120
bis (2-Ethylhexyl) phthalate	1	10	20	40	50	80	100	120
Di-n-octylphthalate		10	20	40	50	80	100	120

SW846 8270C/EPA 625

Calibration Standard Concentration Levels*

	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
Benzo(b)fluoranthene	1	10	20	40	50	80	100	120
Benzo(k)fluoranthene	1	10	20	40	50	80	100	120
Benzo(a)pyrene	1	10	20	40	50	80	100	120
Indeno-(1,2,3-cd)pyrene	1	10	20	40	50	80	100	120
Dibenzo(a,h)anthracene	1	10	20	40	50	80	100	120
Benzo(ghi)perylene	1	10	20	40	50	80	100	120
Carbazole	1	10	20	40	50	80	100	120

APPENDIX IX

1,4-Dioxane		10	20	40	50	80	100	120
Methyl methacrylate		10	20	40	50	80	100	120
Ethyl methacrylate		10	20	40	50	80	100	120
2-Picoline		10	20	40	50	80	100	120
N-Nitrosomethylethylamine		10	20	40	50	80	100	120
Methyl methanesulfonate		10	20	40	50	80	100	120
N-Nitrosodiethylamine		10	20	40	50	80	100	120
Ethyl methanesulfonate		10	20	40	50	80	100	120
Pentachloroethane		10	20	40	50	80	100	120
N-Nitrosopyrrolidine		10	20	40	50	80	100	120
N-Nitrosomorpholine		10	20	40	50	80	100	120
o-Toluidine		10	20	40	50	80	100	120
N-Nitrosopiperidine		10	20	40	50	80	100	120
a,a-Dimethhylphenethylamine		10	20	40	50	80	100	120
Triethylphosphorothioate		10	20	40	50	80	100	120
2,6-Dichlorophenol		10	20	40	50	80	100	120
Hexachloropropene		10	20	40	50	80	100	120
p-Phenylenediamine		10	20	40	50	80	100	120
N-Nitrosodi-n-butylamine		10	20	40	50	80	100	120
Safrole		10	20	40	50	80	100	120
1,2,4,5-Tetrachlorobenzene		10	20	40	50	80	100	120
Isosafrole		10	20	40	50	80	100	120
1,4-Naphthoquinone		10	20	40	50	80	100	120
m-Dinitrobenzene		10	20	40	50	80	100	120
Pentachlorobenzene		10	20	40	50	80	100	120
1-Naphthylamine		10	20	40	50	80	100	120
2-Naphthylamine		10	20	40	50	80	100	120
2,3,4,6-Tetrachlorophenol		10	20	40	50	80	100	120
5-Nitro-o-toluidine		10	20	40	50	80	100	120

Thionazin		10	20	40	50	80	100	120
Sulfotepp		10	20	40	50	80	100	120
Phorate		10	20	40	50	80	100	120
1,3,5-Trinitrobenzene		10	20	40	50	80	100	120
Phenacetin		10	20	40	50	80	100	120
Diallate (cis and trans)		10	20	40	50	80	100	120

SW846 8270C/EPA 625								
Calibration Standard Concentration Levels*								
	Level 1	Level 2	Level 3	Level 4#	Level 5	Level 6	Level 7	Level 8
Dimethoate		10	20	40	50	80	100	120
4-Aminobiphenyl		10	20	40	50	80	100	120
Pentachloronitrobenzene		10	20	40	50	80	100	120
Pronamide		10	20	40	50	80	100	120
Dinoseb		10	20	40	50	80	100	120
Disulfoton		10	20	40	50	80	100	120
Methyl parathion		10	20	40	50	80	100	120
4-Nitroquinoline oxide		10	20	40	50	80	100	120
Methapyrilene		10	20	40	50	80	100	120
Isodrin		10	20	40	50	80	100	120
Aramite		10	20	40	50	80	100	120
Kepone		10	20	40	50	80	100	120
p-(Dimethylamino)azobenzene		10	20	40	50	80	100	120
Chlorobenzilate		10	20	40	50	80	100	120
3,3'-Dimethylbenzidine		10	20	40	50	80	100	120
Famphur		10	20	40	50	80	100	120
2-Acetylaminofluorene		10	20	40	50	80	100	120
7,12-Dimethylbenz(a)anthracene		10	20	40	50	80	100	120
3-Methylcholanthrene		10	20	40	50	80	100	120
Hexachlorophene		500	1000	1250	2000	2500		
p-Benzoquinone		10	20	40	50	80	100	120
Parathion		10	20	40	50	80	100	120
Methoxychlor		10	20	40	50	80	100	120
2-Ethoxyethanol		50	75	100	125	150	200	250
cis-Diallate		1.5	3	6	7.5	12	15	18
trans-Diallate		8.5	17	34	42	68	85	102
Dibenzo(a,e)pyrene		50	75	100	125	150	200	250
Phthalic anhydride		50	75	100	125	150	200	250
1,4-Dinitrobenzene		50	75	100	125	150	200	250
(2,3-Dibromopropyl)phosphate		50	75	100	125	150	200	250
Methylenebis(2-chloroaniline)		50	75	100	125	150	200	250

All values are mg/L without the prep factor.
# Indicates the calibration verification concentration level used
* Usual calibration levels using SCAN methodology

(04/04)

Report Date: 19-Jan-2006 15:13

Calibration History

Method : /chem/MSD8.i/s011806.b/MSD8-8270C-011806.m
Start Cal Date: 17-JAN-2006 16:51
End Cal Date : 18-JAN-2006 23:20

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
17-JAN-2006 20:47	ANIL+BNZ+AT	/chem/MSD8.i/s011706.b/s8a1714.d
18-JAN-2006 14:14	BNAICAL-NAB	/chem/MSD8.i/s011806.b/s8a1803.d
Cal Level: 2 , Cal Amount: 10.00000		
18-JAN-2006 21:08	AP9MIX-O2SI	/chem/MSD8.i/s011806.b/s8a1822.d
18-JAN-2006 18:13	168MIX-O2SI	/chem/MSD8.i/s011806.b/s8a1814.d
18-JAN-2006 02:48	HEXMIX-O2SI	/chem/MSD8.i/s011706.b/s8a1731.d
17-JAN-2006 23:59	167MIX-O2SI	/chem/MSD8.i/s011706.b/s8a1723.d
17-JAN-2006 21:08	ANIL+BNZ+AT	/chem/MSD8.i/s011706.b/s8a1715.d
18-JAN-2006 14:35	BNAICAL-NAB	/chem/MSD8.i/s011806.b/s8a1804.d
Cal Level: 3 , Cal Amount: 20.00000		
18-JAN-2006 21:30	AP9MIX-O2SI	/chem/MSD8.i/s011806.b/s8a1823.d
18-JAN-2006 18:35	168MIX-O2SI	/chem/MSD8.i/s011806.b/s8a1815.d
18-JAN-2006 03:09	HEXMIX-O2SI	/chem/MSD8.i/s011706.b/s8a1732.d
18-JAN-2006 00:20	167MIX-O2SI	/chem/MSD8.i/s011706.b/s8a1724.d
17-JAN-2006 21:30	ANIL+BNZ+AT	/chem/MSD8.i/s011706.b/s8a1716.d
18-JAN-2006 14:57	BNAICAL-NAB	/chem/MSD8.i/s011806.b/s8a1805.d
Cal Level: 4 , Cal Amount: 40.00000		
18-JAN-2006 21:52	AP9MIX-O2SI	/chem/MSD8.i/s011806.b/s8a1824-istd.d
18-JAN-2006 18:57	168MIX-O2SI	/chem/MSD8.i/s011806.b/s8a1816-istd.d
18-JAN-2006 03:31	HEXMIX-O2SI	/chem/MSD8.i/s011706.b/s8a1733.d
18-JAN-2006 00:41	167MIX-O2SI	/chem/MSD8.i/s011706.b/s8a1725.d
17-JAN-2006 21:51	ANIL+BNZ+AT	/chem/MSD8.i/s011706.b/s8a1717.d
18-JAN-2006 15:18	BNAICAL-NAB	/chem/MSD8.i/s011806.b/s8a1806-istd.d
Cal Level: 5 , Cal Amount: 50.00000		
18-JAN-2006 22:14	AP9MIX-O2SI	/chem/MSD8.i/s011806.b/s8a1825.d
18-JAN-2006 19:19	168MIX-O2SI	/chem/MSD8.i/s011806.b/s8a1817.d
18-JAN-2006 03:52	HEXMIX-O2SI	/chem/MSD8.i/s011706.b/s8a1734.d
18-JAN-2006 01:02	167MIX-O2SI	/chem/MSD8.i/s011706.b/s8a1726.d
17-JAN-2006 22:13	ANIL+BNZ+AT	/chem/MSD8.i/s011706.b/s8a1718.d
18-JAN-2006 15:39	BNAICAL-NAB	/chem/MSD8.i/s011806.b/s8a1807.d
Cal Level: 6 , Cal Amount: 80.00000		

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+=================================================================================+
|18-JAN-2006 22:36 |AP9MIX-O2SI       |/chem/MSD8.i/s011806.b/s8a1826.d          |
|18-JAN-2006 19:41 |168MIX-O2SI       |/chem/MSD8.i/s011806.b/s8a1818.d          |
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18-JAN-2006 04:13	HEXMIX-O2SI	/chem/MSD8.i/s011706.b/s8a1735.d
18-JAN-2006 01:24	167MIX-O2SI	/chem/MSD8.i/s011706.b/s8a1727.d
17-JAN-2006 22:34	ANIL+BNZ+AT	/chem/MSD8.i/s011706.b/s8a1719.d
18-JAN-2006 16:01	BNAICAL-NAB	/chem/MSD8.i/s011806.b/s8a1808.d

Cal Level: 7 , Cal Amount: 100.00000

18-JAN-2006 22:58	AP9MIX-O2SI	/chem/MSD8.i/s011806.b/s8a1827.d
18-JAN-2006 20:03	168MIX-O2SI	/chem/MSD8.i/s011806.b/s8a1819.d
18-JAN-2006 01:45	167MIX-O2SI	/chem/MSD8.i/s011706.b/s8a1728.d
17-JAN-2006 22:55	ANIL+BNZ+AT	/chem/MSD8.i/s011706.b/s8a1720.d
18-JAN-2006 16:23	BNAICAL-NAB	/chem/MSD8.i/s011806.b/s8a1809.d

Cal Level: 8 , Cal Amount: 120.00000

18-JAN-2006 23:20	AP9MIX-O2SI	/chem/MSD8.i/s011806.b/s8a1828.d
18-JAN-2006 20:25	168MIX-O2SI	/chem/MSD8.i/s011806.b/s8a1820.d
18-JAN-2006 02:06	167MIX-O2SI	/chem/MSD8.i/s011706.b/s8a1729.d
17-JAN-2006 23:16	ANIL+BNZ+AT	/chem/MSD8.i/s011706.b/s8a1721.d
18-JAN-2006 16:45	BNAICAL-NAB	/chem/MSD8.i/s011806.b/s8a1810.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 40.0

18-JAN-2006 21:52	AP9MIX-O2SI	/chem/MSD8.i/s011806.b/s8a1824-istd.d

Ccal Level: 4 , Ccal Amount: 40.0

18-JAN-2006 18:57	168MIX-O2SI	/chem/MSD8.i/s011806.b/s8a1816-istd.d

Ccal Level: 4 , Ccal Amount: 40.0

18-JAN-2006 17:29	BNAICAL-NAB	/chem/MSD8.i/s011806.b/s8a1812-ICV.d

Ccal Level: 4 , Ccal Amount: 40.0

18-JAN-2006 15:18	BNAICAL-NAB	/chem/MSD8.i/s011806.b/s8a1806-istd.d

Ccal Level: 4 , Ccal Amount: 40.0

18-JAN-2006 17:29	BNAICAL-NAB	/chem/MSD8.i/s011806.b/s8a1812-ICV-SC.d

Ccal Level: 4 , Ccal Amount: 40.0

18-JAN-2006 17:29	BNAICAL-NAB	/chem/MSD8.i/s011806.b/s8a1812.d

Ccal Level: 4 , Ccal Amount: 40.0

18-JAN-2006 15:18	BNAICAL-NAB	/chem/MSD8.i/s011806.b/s8a1806.d

Ccal Level: 4 , Ccal Amount: 40.0

18-JAN-2006 21:52	AP9MIX-O2SI	/chem/MSD8.i/s011806.b/s8a1824.d

Ccal Level: 4 , Ccal Amount: 40.0

18-JAN-2006 18:57	168MIX-O2SI	/chem/MSD8.i/s011806.b/s8a1816.d

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2006 16:51
End Cal Date : 20-JAN-2006 12:47
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/MSD8.i/s020206.b/MSD8-8270C-012006-SC.m
Cal Date : 08-Feb-2006 07:15 hnm

Calibration File Names:
Level 1: /chem/MSD8.i/s011706.b/s8a1714.d
Level 2: /chem/MSD8.i/s011806.b/s8a1822.d
Level 3: /chem/MSD8.i/s011806.b/s8a1823.d
Level 4: /chem/MSD8.i/s011806.b/s8a1824.d
Level 5: /chem/MSD8.i/s011806.b/s8a1825.d
Level 6: /chem/MSD8.i/s011806.b/s8a1826.d
Level 7: /chem/MSD8.i/s011806.b/s8a1827.d
Level 8: /chem/MSD8.i/s011806.b/s8a1828.d

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
1 N-Methyl-N-nitrosomethylamine	+++++	0.56890	0.56779	0.57676	0.56971	0.60753					
	0.61097	0.62286					AVRG		0.58922		4.00923
2 Pyridine	+++++	1.06802	1.05593	1.03688	1.04673	1.11484					
	1.13860	1.12830					AVRG		1.08418		3.86709
4 Aniline	+++++	1.59225	1.49695	1.62749	+++++	+++++					
	1.54970	1.57862					AVRG		1.56900		3.12515
209 Benzaldehyde	+++++	0.85068	0.78922	0.86511	+++++	+++++					
	0.82447	0.83126					AVRG		0.83215		3.46857
6 Phenol	+++++	1.27286	1.31461	1.28867	1.33309	1.36566					
	1.34625	1.34153					AVRG		1.32324		2.50039

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
7 bis(2-Chloroethyl) ether	+++++	1.33802	1.12059	1.22603	1.24815	1.43739					
	1.41197	1.51818					AVRG		1.32862		10.42381
8 2-Chlorophenol	+++++	1.17761	1.18058	1.10116	1.16034	1.13410					
	1.11313	1.10137					AVRG		1.13833		3.04584
185 n-Decane	+++++	1.25942	1.24322	1.16666	1.20437	1.19561					
	1.17458	1.15514					AVRG		1.19986		3.26466
9 1,3-Dichlorobenzene	+++++	1.44147	1.46018	1.35199	1.39839	1.36323					
	1.34761	1.33112					AVRG		1.38486		3.59662
11 1,4-Dichlorobenzene	+++++	1.44444	1.44554	1.29377	1.36526	1.30568					
	1.30421	1.28697					AVRG		1.34941		5.19396
12 Benzyl alcohol	+++++	0.56601	0.62999	0.57580	0.61085	0.58423					
	0.57474	0.57735					AVRG		0.58842		3.93662
13 1,2-Dichlorobenzene	+++++	1.33676	1.33354	1.15894	1.22077	1.14392					
	1.11094	1.10637					AVRG		1.20161		8.21578
14 bis(2-Chloroisopropyl)ether	+++++	1.89045	1.89828	1.75636	1.85325	1.79537					
	1.76562	1.75790					AVRG		1.81675		3.45164
15 o-Cresol	+++++	0.83251	0.87802	0.75452	0.79687	0.73750					
	0.70288	0.70516					AVRG		0.77250		8.56406

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	100 Level 7	120 Level 8									
16 Acetophenone	+++++	1.38677	1.43882	1.26815	1.35835	1.24706					
	1.17606	1.19515					AVRG		1.29576		7.73361
17 N-Nitrosodipropylamine	+++++	0.64790	0.68048	0.61611	0.65087	0.61581					
	0.59181	0.59749					AVRG		0.62864		5.11377
18 m,p-Cresols	+++++	1.16012	1.23019	1.09334	1.14669	1.09389					
	1.05798	1.07063					AVRG		1.12183		5.41189
19 Hexachloroethane	+++++	0.49279	0.50175	0.43758	0.46103	0.43908					
	0.43830	0.43229					AVRG		0.45755		6.28117
21 Nitrobenzene	+++++	0.20498	0.19794	0.18503	0.18713	0.18250					
	0.18219	0.17686					AVRG		0.18809		5.24892
22 Isophorone	+++++	0.42079	0.41653	0.39150	0.39368	0.37626					
	0.37302	0.36535					AVRG		0.39102		5.47020
23 2-Nitrophenol	+++++	0.12243	0.12543	0.12713	0.12935	0.12660					
	0.12550	0.12193					AVRG		0.12548		2.08079
24 2,4-Dimethylphenol	+++++	0.29055	0.28340	0.23010	0.23297	0.22295					
	0.21477	0.20736					AVRG		0.24030		13.78072
25 bis(2-Chloroethoxy)methane	+++++	0.30472	0.29219	0.26685	0.26940	0.24992					
	0.24357	0.23481					AVRG		0.26592		9.62609

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	100 Level 7	120 Level 8									
26 2,4-Dichlorophenol	+++++	0.20672	0.20393	0.20252	0.20530	0.19436					
	0.19736	0.19222					AVRG		0.20034		2.83476
27 Benzoic acid	+++++	+++++	0.05652	0.07998	0.08876	0.08201					
	0.07962	0.08052					AVRG		0.07790		14.13168
28 1,2,4-Trichlorobenzene	+++++	0.25949	0.24633	0.23275	0.23120	0.21969					
	0.21781	0.20960					AVRG		0.23098		7.51922
30 Naphthalene	+++++	0.77563	0.73931	0.67529	0.68371	0.63943					
	0.62873	0.59834					AVRG		0.67721		9.25857
204 alpha-Terpineol	+++++	0.19280	0.18983	0.18645	0.18521	0.17742					
	0.17515	0.17084					AVRG		0.18253		4.46467
31 4-Chloroaniline	+++++	0.30599	0.29798	0.32455	+++++	+++++					
	0.30947	0.30918					AVRG		0.30943		3.11538
189 Caprolactam	+++++	0.07856	0.07940	0.07701	0.08033	0.07710					
	0.07438	0.07385					AVRG		0.07723		3.15922
32 Hexachlorobutadiene	+++++	0.12929	0.12470	0.11611	0.11704	0.11381					
	0.11181	0.10811					AVRG		0.11727		6.29206
33 4-Chloro-3-methylphenol	+++++	0.17086	0.18043	0.16464	0.16921	0.17185					
	0.16805	0.16390					AVRG		0.16985		3.25265

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Compound	1 Level 1 100 Level 7	10 Level 2 120 Level 8	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
34 2-Methylnaphthalene	+++++	0.56377	0.54398	0.51088	0.51637	0.48905					
	0.47724	0.46421					AVRG		0.50936		7.02952
35 1-Methylnaphthalene	+++++	0.52795	0.51125	0.47340	0.48014	0.44645					
	0.43448	0.42667					AVRG		0.47148		8.14729
36 Hexachlorocyclopentadiene	+++++	0.21409	0.20071	0.24623	0.23155	0.27672					
	0.28342	0.27527					AVRG		0.24686		13.30592
208 1,1'-Biphenyl	+++++	1.25199	1.22577	1.18071	1.19417	1.19559					
	1.15602	1.17221					AVRG		1.19664		2.73345
205 2,3-Dichloroaniline	+++++	0.50613	0.48648	0.52596	+++++	+++++					
	0.54113	0.54403					AVRG		0.52074		4.67688
37 2,4,6-Trichlorophenol	+++++	0.25450	0.25970	0.27155	0.27009	0.28303					
	0.28058	0.28174					AVRG		0.27160		4.11729
38 2,4,5-Trichlorophenol	+++++	0.26583	0.27338	0.26902	0.26823	0.29794					
	0.29534	0.30479					AVRG		0.28208		5.87021
40 2-Chloronaphthalene	+++++	0.96025	0.93910	0.89960	0.91163	0.89285					
	0.86502	0.87303					AVRG		0.90593		3.78405
42 o-Nitroaniline	+++++	41560	78087	184669	+++++	+++++					
	502805	519414					LINR	0.12179	0.18415		0.99877

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
41 m-Nitroaniline	+++++	44159	86947	220527	+++++	+++++					
	599166	643739					LINR	0.15772	0.22815		0.99648
43 Dimethylphthalate	+++++	1.06341	1.10249	1.05460	1.06758	1.05636					
	1.04017	1.05247					AVRG		1.06244		1.85280
44 2,6-Dinitrotoluene	+++++	0.17817	0.19358	0.20821	0.21520	0.22281					
	0.22049	0.22606					AVRG		0.20922		8.37216
45 Acenaphthylene	+++++	1.46122	1.48812	1.44915	1.45534	1.48377					
	1.45144	1.45085					AVRG		1.46284		1.11529
47 Acenaphthene	+++++	0.83992	0.84285	0.82603	0.83589	0.84946					
	0.83586	0.83638					AVRG		0.83805		0.86252
48 2,4-Dinitrophenol	+++++	+++++	15265	48960	59503	132962					
	181098	214924					LINR	0.47474	0.10193		0.99110
49 Dibenzofuran	+++++	1.20729	1.21471	1.16338	1.18099	1.19086					
	1.16159	1.17902					AVRG		1.18540		1.71495
50 2,4-Dinitrotoluene	+++++	0.19765	0.23183	0.25386	0.26390	0.28275					
	0.27855	0.28988					AVRG		0.25692		12.73379
51 Diethylphthalate	+++++	1.06601	1.15099	1.07738	1.11809	1.11915					
	1.08612	1.09775					AVRG		1.10221		2.65132

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Compound	1 Level 1 100 Level 7	10 Level 2 120 Level 8	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
52 4-Nitrophenol	+++++	24274	47292	122117	138947	260152					
	329485	380170					LINR	0.20088	0.16394		0.99593
53 Fluorene	+++++	0.99653	0.99300	0.92284	0.94201	0.91990					
	0.89241	0.90682					AVRG		0.93907		4.36170
54 4-Chlorophenylphenylether	+++++	0.47449	0.48817	0.47015	0.47642	0.48779					
	0.48115	0.48838					AVRG		0.48094		1.54897
55 2-Methyl-4,6-dinitrophenol	+++++	22455	39307	113208	131630	246208					
	326236	376187					LINR	0.24611	0.11414		0.99576
56 p-Nitroaniline	+++++	34724	67011	190282	+++++	+++++					
	519030	590903					LINR	0.20756	0.20945		0.99047
57 N-Nitroso-diphenylamine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
133 Diphenylamine	+++++	0.57012	0.57097	0.55300	0.55797	0.54889					
	0.55495	0.54378					AVRG		0.55710		1.83782
58 1,2-Diphenylhydrazine	+++++	0.57676	0.57753	0.56087	0.55819	0.56329					
	0.56528	0.55122					AVRG		0.56473		1.69691
59 Tributylphosphate	+++++	1.01781	1.18741	1.12202	1.17396	1.12751					
	1.04996	1.05656					AVRG		1.10503		5.87874

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	100 Level 7	120 Level 8									
61 4-Bromophenylphenylether	++++++	0.17924	0.18302	0.18370	0.18189	0.18662					
	0.19233	0.18992					AVRG		0.18525		2.49877
62 alpha-BHC	++++++	++++++	++++++	++++++	++++++	++++++					
	++++++	++++++					AVRG		0.000e+00		0.000e+00
63 Hexachlorobenzene	++++++	0.19260	0.19826	0.20555	0.20491	0.21518					
	0.21836	0.21587					AVRG		0.20725		4.67955
207 Atrazine	++++++	0.05760	0.05659	0.05906	++++++	++++++					
	0.06024	0.05782					AVRG		0.05826		2.41966
64 beta-BHC	++++++	++++++	++++++	++++++	++++++	++++++					
	++++++	++++++					AVRG		0.000e+00		0.000e+00
65 Pentachlorophenol	++++++	28889	51451	125877	140331	260191					
	337189	386796					LINR	0.18691	0.11524		0.99705
206 n-Octadecane	++++++	0.52601	0.53581	0.51787	0.50163	0.48981					
	0.48056	0.45959					AVRG		0.50161		5.38506
66 gamma-BHC (Lindane)	++++++	++++++	++++++	++++++	++++++	++++++					
	++++++	++++++					AVRG		0.000e+00		0.000e+00
68 Phenanthrene	++++++	0.88272	0.90218	0.86731	0.89691	0.88622					
	0.87110	0.87543					AVRG		0.88312		1.47396

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69 Anthracene	+++++	0.88140	0.88727	0.88321	0.90902	0.89172					
	0.87889	0.88642					AVRG		0.88828		1.13289
70 delta-BHC	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
71 Heptachlor	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
72 Di-n-butylphthalate	+++++	1.26946	1.36923	1.28355	1.34200	1.29758					
	1.27740	1.30433					AVRG		1.30622		2.79980
73 Aldrin	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
74 Heptachlor epoxide	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
75 Endrin	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
76 Fluoranthene	+++++	0.93816	0.97528	0.95305	1.06359	1.02532					
	1.01978	1.09752					AVRG		1.01038		5.78101
77 Benzidine	140438	362354	945313	2602456	+++++	+++++					
	5809546	6748494					LINR	0.24025	1.07790		0.99909

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Compound	1 Level 1 100 Level 7	10 Level 2 120 Level 8	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
78 Endosulfan I	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
79 Pyrene	+++++	1.68589	1.55221	1.65068	1.46671	1.53553					
	1.64990	1.50396					AVRG		1.57784		5.32938
80 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
82 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
83 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
84 Endosulfan II	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
85 Butylbenzylphthalate	+++++	0.74128	0.74916	0.76272	0.71010	0.70477					
	0.74554	0.69572					AVRG		0.72990		3.54378
86 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
87 Endosulfan sulfate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00

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88 Endrin aldehyde	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
89 Benzo(a)anthracene	+++++	0.96130	1.00136	0.97513	1.00403	1.01206					
	1.00959	1.03155					AVRG		0.99929		2.36931
90 3,3'-Dichlorobenzidine	71571	145305	359045	1032300	+++++	+++++					
	2341904	2784284					LINR	0.27061	0.44230		0.99778
92 Chrysene	+++++	0.92822	0.91094	0.85999	0.87448	0.90437					
	0.86451	0.89983					AVRG		0.89176		2.88497
93 bis(2-Ethylhexyl)phthalate	+++++	0.90018	0.94510	0.94318	0.92767	0.93406					
	0.91664	0.93823					AVRG		0.92929		1.73265
94 Di-n-octylphthalate	+++++	1.62156	1.54398	1.71028	1.53667	1.68937					
	1.88109	1.79189					AVRG		1.68212		7.53504
95 Benzo(b)fluoranthene	+++++	0.99032	1.01181	1.00548	0.96272	1.03267					
	1.09461	1.10755					AVRG		1.02931		5.20558
96 Benzo(k)fluoranthene	+++++	1.04343	0.98528	1.06365	1.02388	1.05427					
	1.10996	1.03290					AVRG		1.04477		3.66868
97 Benzo(a)pyrene	+++++	0.79684	0.83924	0.85921	0.89371	0.91808					
	0.91682	0.93411					AVRG		0.87971		5.67043

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Cal Date : 08-Feb-2006 07:15 hnm

Compound	1 Level 1 / 100 Level 7	10 Level 2 / 120 Level 8	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
99 Indeno(1,2,3-cd)pyrene	+++++	0.59396	0.77855	0.72224	0.86039	0.81675					
	0.74614	0.82708					AVRG		0.76359		11.62049
100 Dibenzo(a,h)anthracene	+++++	0.45624	0.62571	0.57906	0.70288	0.66886					
	0.61369	0.69054					AVRG		0.61957		13.63164
101 Benzo(ghi)perylene	+++++	0.50417	0.64125	0.57546	0.70425	0.63988					
	0.58091	0.63410					AVRG		0.61143		10.46341
102 1,4-Dioxane	+++++	0.39328	0.38402	0.35804	0.39336	0.37242					
	0.36950	0.35451					AVRG		0.37502		4.21187
103 Methyl methacrylate	+++++	0.25518	0.24680	0.24049	0.22688	0.23444					
	0.23754	0.24015					AVRG		0.24021		3.74563
104 Ethyl methacrylate	+++++	0.88878	0.86098	0.83094	0.81995	0.81802					
	0.82880	0.82995					AVRG		0.83963		3.07974
105 2-Picoline	+++++	1.39148	1.34022	1.29006	1.30385	1.28682					
	1.29529	1.28108					AVRG		1.31268		3.03562
106 N-Nitrosomethylethylamine	+++++	0.54454	0.51139	0.50129	0.50532	0.49396					
	0.49985	0.49429					AVRG		0.50724		3.45849
107 Methyl methanesulfonate	+++++	0.53999	0.53513	0.52021	0.52525	0.51734					
	0.51208	0.50825					AVRG		0.52261		2.23164

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Method file : /chem/MSD8.i/s020206.b/MSD8-8270C-012006-SC.m
Cal Date : 08-Feb-2006 07:15 hnm

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
108 N-Nitrosodiethylamine	+++++	0.57078	0.56470	0.53207	0.55801	0.55547					
	0.54809	0.53961					AVRG		0.55267		2.47742
109 Ethyl Methanesulfonate	+++++	0.81180	0.76179	0.73145	0.75873	0.74617					
	0.73591	0.72541					AVRG		0.75304		3.88376
110 Pentachloroethane	+++++	0.48687	0.47246	0.46234	0.46694	0.46537					
	0.46606	0.45999					AVRG		0.46858		1.91211
111 N-Nitrosopyrrolidine	+++++	0.57651	0.57030	0.56641	0.58404	0.55956					
	0.55484	0.54905					AVRG		0.56582		2.17389
113 N-Nitrosomorpholine	+++++	0.70645	0.68168	0.68752	0.69680	0.67754					
	0.66479	0.64297					AVRG		0.67968		3.09180
114 o-Toluidine	+++++	1.97700	1.92230	1.79878	1.84698	1.74418					
	1.71245	1.64467					AVRG		1.80662		6.51404
115 N-Nitrosopiperidine	+++++	0.12819	0.13074	0.13053	0.13408	0.13379					
	0.12977	0.12521					AVRG		0.13033		2.37213
116 a,a-Dimethylphenethylamine	+++++	251734	669572	1324561	1765901	3269953					
	3904347	5005774					LINR	0.12704	0.71711		0.99927
117 Triethylphosphorothioate	+++++	0.13861	0.13370	0.12453	0.13099	0.12664					
	0.12337	0.11969					AVRG		0.12822		5.11536

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
118 2,6-Dichlorophenol	+++++	0.21829	0.21093	0.20897	0.21403	0.20944					
	0.21128	0.20754					AVRG		0.21150		1.71661
119 Hexachloropropene	+++++	0.12830	0.13717	0.13012	0.13825	0.14357					
	0.14001	0.14015					AVRG		0.13680		4.07727
120 p-Phenylenediamine	+++++	78935	181295	402386	664654	945870					
	1330936	1553348					LINR	0.11751	0.22822		0.99930
121 N-Nitrosodi-n-butylamine	+++++	0.19139	0.18020	0.17899	0.17410	0.16169					
	0.16054	0.15352					AVRG		0.17149		7.80126
122 Safrole	+++++	0.24251	0.23535	0.23170	0.23261	0.21063					
	0.21090	0.20277					AVRG		0.22378		6.84075
123 1,2,4,5-Tetrachlorobenzene	+++++	0.48610	0.45568	0.44626	0.44635	0.44409					
	0.45505	0.45187					AVRG		0.45506		3.16896
124 Isosafrole	+++++	0.47830	0.45359	0.43679	0.43981	0.42557					
	0.42434	0.41924					AVRG		0.43966		4.68469
125 1,4-Naphthoquinone	+++++	0.36477	0.37665	0.39147	0.38977	0.39185					
	0.38273	0.37363					AVRG		0.38155		2.71043
126 m-Dinitrobenzene	+++++	0.11219	0.12638	0.13641	0.14148	0.15233					
	0.14992	0.15292					AVRG		0.13880		10.93224

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
127 Pentachlorobenzene	+++++	0.42071	0.38730	0.38626	0.38667	0.38633					
	0.39688	0.39661					AVRG		0.39439		3.18191
128 1-Naphthylamine	+++++	1.11038	1.08206	1.03181	1.00005	0.97574					
	0.93435	0.91373					AVRG		1.00687		7.24627
129 2-Naphthylamine	+++++	1.08579	1.01911	0.89202	0.85407	0.82368					
	0.79680	0.79038					AVRG		0.89455		12.84026
130 2,3,4,6-Tetrachlorophenol	+++++	0.14479	0.16296	0.16946	0.17681	0.17687					
	0.17992	0.17876					AVRG		0.16994		7.42046
131 5-Nitro-o-toluidine	+++++	0.25579	0.26169	0.26766	0.25994	0.26140					
	0.25424	0.25749					AVRG		0.25974		1.72293
132 Thionazin	+++++	0.15956	0.15705	0.14728	0.15137	0.14823					
	0.14467	0.13640					AVRG		0.14922		5.21066
134 Sulfotepp	+++++	0.09661	0.09860	0.09343	0.09692	0.11206					
	0.10565	0.11080					AVRG		0.10201		7.29018
135 Phorate	+++++	0.36618	0.36171	0.32073	0.32487	0.32470					
	0.29510	0.29481					AVRG		0.32687		8.69161
136 1,3,5-Trinitrobenzene	+++++	15793	38889	89665	168974	268505					
	391833	523323					LINR	0.29112	0.09067		0.99039

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
137 Phenacetin	+++++	0.29197	0.31632	0.33438	0.34095	0.35690					
	0.35378	0.36427					AVRG		0.33694		7.56538
138 Diallate	+++++	0.24950	0.24635	0.22468	0.22755	0.23385					
	0.21000	0.21138					AVRG		0.22904		6.75620
139 Dimethoate	+++++	0.17575	0.18938	0.18858	0.19504	0.19657					
	0.18600	0.18183					AVRG		0.18759		3.86975
140 4-Aminobiphenyl	+++++	0.71155	0.71235	0.71825	0.72355	0.77894					
	0.76353	0.78444					AVRG		0.74180		4.38181
141 Pentachloronitrobenzene	+++++	0.07246	0.07510	0.07853	0.08071	0.07971					
	0.08157	0.08132					AVRG		0.07849		4.40646
142 Pronamide	+++++	0.36251	0.35548	0.36661	0.36878	0.35235					
	0.35855	0.35352					AVRG		0.35968		1.79238
143 Dinoseb	+++++	27403	68837	151025	204925	395640					
	451043	544425					LINR	0.23361	0.13749		0.99644
144 Disulfoton	+++++	0.31798	0.30433	0.27563	0.27787	0.28318					
	0.26175	0.25928					AVRG		0.28286		7.60128
145 Methyl parathion	+++++	23383	63551	153513	224549	391504					
	485281	570150					LINR	0.25374	0.13271		0.99547

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
146 4-Nitroquinoline-1-oxide	+++++	0.02214	0.02388	0.02438	0.02367	0.02155					
	0.02033	0.01753					AVRG		0.02192		11.00388
147 Methapyrilene	+++++	0.51602	0.56954	0.59410	0.60902	0.58365					
	0.57152	0.54509					AVRG		0.56985		5.46848
148 Isodrin	+++++	0.10044	0.09653	0.09089	0.09445	0.09907					
	0.09144	0.08973					AVRG		0.09465		4.42661
149 Aramite	+++++	0.00887	0.00974	0.01145	0.01163	0.01215					
	0.01193	0.01232					AVRG		0.01115		11.85161
150 Kepone	+++++	0.05878	0.05807	0.06424	0.06693	0.06975					
	0.06582	0.06192					AVRG		0.06364		6.75567
151 p-(Dimethylamino)azobenzene	+++++	0.50885	0.50947	0.49847	0.51033	0.48511					
	0.50497	0.48442					AVRG		0.50023		2.25824
152 Chlorobenzilate	+++++	0.37552	0.43805	0.42312	0.44595	0.49905					
	0.44847	0.47283					AVRG		0.44328		8.75787
153 3,3'-Dimethylbenzidine	+++++	0.51354	0.51007	0.46681	0.46347	0.44429					
	0.44218	0.39827					AVRG		0.46266		8.71629
154 Famphur	+++++	0.48251	0.52379	0.52002	0.53695	0.56525					
	0.52710	0.54046					AVRG		0.52801		4.74995

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
155 2-Acetylaminofluorene	+++++	0.25786	0.27529	0.34017	0.33074	0.35124					
	0.34367	0.35079					AVRG		0.32139		11.95166
157 7,12Dimethylbenz(a)anthracene	+++++	0.56329	0.61338	0.60085	0.63173	0.60150					
	0.63316	0.63228					AVRG		0.61088		4.14589
158 3-Methylcholanthrene	+++++	0.49385	0.49850	0.51914	0.51321	0.53911					
	0.53750	0.53107					AVRG		0.51891		3.49955
166 Maleic anhydride	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
167 a,a,a-Trichlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
169 2,3-Dimethylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
170 2,6-Dimethylnapthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
171 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
172 1-Methyl fluorene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
173 Carbazole	+++++	0.82495	0.79464	0.88752	+++++	+++++					
	0.84583	0.86582					AVRG		0.84375		4.26188
174 Hexachlorophene	+++++	0.04958	0.06864	0.06851	0.06326	0.05967					
	+++++	+++++					AVRG		0.06193		12.70628
175 Benzo(j)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
176 Dibenz(a,h)acridine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
177 Dibenz(a,j)acridine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
178 Dibenzo(a,i)pyrene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
180 7-H-Dibenzo(c,g)carbazole	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
181 Dibenzo(a,h)pyrene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
182 4,6-Dinitro-2-cyclohexylpheno	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00

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Compound	1 Level 1 100 Level 7	10 Level 2 120 Level 8	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
184 p-Benzoquinone	+++++	0.63460	0.70686	0.72265	0.79397	0.78727					
	0.75184	0.70171					AVRG		0.72842		7.58635
185 (2,3-Dibromopropyl)phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
186 2,6-Toluene diisocyanate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
191 Parathion	+++++	8194	23559	60817	91553	164357					
	208337	243387					LINR	0.29523	0.05754		0.99397
192 Methoxychlor	+++++	0.42562	0.49496	0.54315	0.58139	0.63285					
	0.62019	0.64395					AVRG		0.56316		14.30434
193 Hexamethyleneimine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
195 4-Chlorophenyl sulfone	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
197 Anthraquinone	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
199 2-Aminoanthraquinone	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00

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Compound	1 Level 1 100 Level 7	10 Level 2 120 Level 8	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
200 2-Methyl anthracene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
201 N,N-Dimethyl formamide	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
202 bis(2-Chloromethyl)ether	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
210 9,10-Anthracenedione	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
211 1HBenzdeisoquinoline132Hdione	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
212 Dichlofenthion	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
213 m_Toluidine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
214 p-Toluidine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
215 Cyclohexylamine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00

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Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
217 Diisobutylamine	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+00		0.000e+00
218 Dimethylaniline	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+00		0.000e+00
219 Nonylamine	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+00		0.000e+00
220 Diethylamine	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+00		0.000e+00
221 n-Propanol	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+00		0.000e+00
222 Cyclohexanol	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+00		0.000e+00
223 3,3'-Dimethoxybenzidine(2)	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+00		0.000e+00
(3)	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+00		0.000e+00
224 2-Ethoxyethanol	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+00		0.000e+00

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Method file : /chem/MSD8.i/s020206.b/MSD8-8270C-012006-SC.m
Cal Date : 08-Feb-2006 07:15 hnm

Compound	1 Level 1 100 Level 7	10 Level 2 120 Level 8	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
225 Dibenzo(a,e)pyrene	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	LINR	0.000e+00	0.000e+00		0.000e+00	<-
226 Phthalic anhydride	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	
230 1,4-Dinitrobenzene	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	
227 Cis Diallate	+++++ 0.24712	0.26985 0.24701	0.27122	0.25203	0.25134	0.26743	AVRG		0.25800		4.25549	
228 Trans Diallate	+++++ 0.24706	0.29353 0.24868	0.28982	0.26432	0.26770	0.27512	AVRG		0.26946		6.75620	
229 Methylenebis(2-chloroaniline)	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	
M 231 Trichlorophenols	+++++ 0.28796	0.26016 0.29326	0.26654	0.27029	0.26916	0.29048	AVRG		0.27684		4.81386	
M 232 Tetrachlorophenols	+++++ 0.17992	0.14479 0.17876	0.16296	0.16946	0.17681	0.17687	AVRG		0.16994		7.42046	
M 233 Benzo(b,k) fluoranthene	+++++ 1.10228	1.01687 1.07023	0.99855	1.03456	0.99330	1.04347	AVRG		1.03704		3.77743	

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2006 16:51
End Cal Date : 20-JAN-2006 12:47
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/MSD8.i/s020206.b/MSD8-8270C-012006-SC.m
Cal Date : 08-Feb-2006 07:15 hnm

Compound	1 Level 1	10 Level 2	20 Level 3	40 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	100 Level 7	120 Level 8									
$ 3 2-Fluorophenol	+++++	1.07743	1.06252	1.08716	1.09573	1.17258					
	1.20486	1.18825					AVRG		1.12693		5.25859
$ 5 Phenol-d5	+++++	1.18243	1.22203	1.23776	1.27237	1.33856					
	1.34421	1.35469					AVRG		1.27886		5.32686
$ 187 2-Chlorophenol-d4	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
$ 188 1,2-Dichlorobenzene-d4	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
$ 20 Nitrobenzene-d5	+++++	0.20919	0.20251	0.20039	0.20465	0.19712					
	0.19824	0.19094					AVRG		0.20044		2.91490
$ 39 2-Fluorobiphenyl	+++++	1.03643	1.02120	0.97694	0.97457	0.97983					
	0.96787	0.96152					AVRG		0.98834		2.89813
$ 60 2,4,6-Tribromophenol	+++++	0.08826	0.10231	0.10934	0.11308	0.12535					
	0.12817	0.13359					AVRG		0.11430		13.99089
$ 81 p-Terphenyl-d14	+++++	1.10679	1.03076	1.10787	0.98862	1.03380					
	1.14122	1.04695					AVRG		1.06514		5.09914

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2006 16:51
End Cal Date : 20-JAN-2006 12:47
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/MSD8.i/s020206.b/MSD8-8270C-012006-SC.m
Cal Date : 08-Feb-2006 07:15 hnm

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Linear	Amt = b + Rsp/ml	Response

Data File: /chem/MSD8.i/s011806.b/s8a1812-ICV-SC.d Page 1
Report Date: 19-Jan-2006 16:42

General Engineering Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 18-JAN-2006 17:29
Lab File ID: s8a1812-ICV-SC. Init. Cal. Date(s): 17-JAN-2006 18-JAN-2006
Analysis Type: Init. Cal. Times: 16:51 23:20
Lab Sample ID: UBN060113-44.2 Quant Type: ISTD
Method: /chem/MSD8.i/s011806.b/MSD8-8270C-011806-SC.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 3 2-Fluorophenol	1.12693	1.13141	1.13141	0.000	0.39736	60.00000	Averaged	
$ 5 Phenol-d5	1.27886	1.24408	1.24408	0.000	-2.71973	60.00000	Averaged	
$ 20 Nitrobenzene-d5	0.20044	0.22254	0.22254	0.000	11.02698	60.00000	Averaged	
$ 39 2-Fluorobiphenyl	0.98834	0.98892	0.98892	0.000	0.05949	60.00000	Averaged	
$ 60 2,4,6-Tribromophenol	0.11430	0.11066	0.11066	0.000	-3.18681	60.00000	Averaged	
$ 81 p-Terphenyl-d14	1.06514	1.05147	1.05147	0.000	-1.28385	60.00000	Averaged	
1 N-Methyl-N-nitrosomethylami	0.58922	0.45521	0.45521	0.000	-22.74381	60.00000	Averaged	
2 Pyridine	1.08418	0.87243	0.87243	0.000	-19.53135	60.00000	Averaged	
6 Phenol	1.32324	1.37678	1.37678	0.001	4.04628	20.00000	Averaged	ccc
7 bis(2-Chloroethyl) ether	1.32919	1.36370	1.36370	0.000	2.59644	60.00000	Averaged	
8 2-Chlorophenol	1.13833	1.21883	1.21883	0.000	7.07204	60.00000	Averaged	
185 n-Decane	1.19986	1.27749	1.27749	0.000	6.47011	60.00000	Averaged	
9 1,3-Dichlorobenzene	1.38486	1.35851	1.35851	0.000	-1.90225	60.00000	Averaged	
11 1,4-Dichlorobenzene	1.34941	1.29527	1.29527	0.001	-4.01189	20.00000	Averaged	ccc
12 Benzyl alcohol	0.58842	0.65476	0.65476	0.000	11.27363	60.00000	Averaged	
13 1,2-Dichlorobenzene	1.20161	1.19938	1.19938	0.000	-0.18536	60.00000	Averaged	
14 bis(2-Chloroisopropyl)ether	1.81675	1.81856	1.81856	0.000	0.09999	60.00000	Averaged	
15 o-Cresol	0.77250	0.84202	0.84202	0.000	9.00054	60.00000	Averaged	
16 Acetophenone	1.29576	1.41280	1.41280	0.000	9.03228	60.00000	Averaged	
17 N-Nitrosodipropylamine	0.62864	0.65704	0.65704	0.050	4.51767	60.00000	Averaged	spcc
18 m,p-Cresols	1.12183	1.20228	1.20228	0.000	7.17107	60.00000	Averaged	
19 Hexachloroethane	0.45755	0.44053	0.44053	0.000	-3.71834	60.00000	Averaged	
21 Nitrobenzene	0.18809	0.20028	0.20028	0.000	6.48326	60.00000	Averaged	
22 Isophorone	0.39102	0.43756	0.43756	0.000	11.90261	60.00000	Averaged	
23 2-Nitrophenol	0.12548	0.14995	0.14995	0.001	19.50231	20.00000	Averaged	ccc
24 2,4-Dimethylphenol	0.24030	0.25984	0.25984	0.000	8.13110	60.00000	Averaged	
25 bis(2-Chloroethoxy)methane	0.26592	0.28565	0.28565	0.000	7.41949	60.00000	Averaged	
26 2,4-Dichlorophenol	0.20034	0.22518	0.22518	0.001	12.39599	20.00000	Averaged	ccc
27 Benzoic acid	0.07790	0.10934	0.10934	0.000	40.35417	60.00000	Averaged	
28 1,2,4-Trichlorobenzene	0.23098	0.22884	0.22884	0.000	-0.92565	60.00000	Averaged	
30 Naphthalene	0.67721	0.72867	0.72867	0.000	7.59927	60.00000	Averaged	
204 alpha-Terpineol	0.18253	0.22337	0.22337	0.000	22.37708	60.00000	Averaged	
189 Caprolactam	0.07723	0.08492	0.08492	0.000	9.94897	60.00000	Averaged	
32 Hexachlorobutadiene	0.11727	0.12647	0.12647	0.001	7.84313	20.00000	Averaged	ccc
33 4-Chloro-3-methylphenol	0.16985	0.17569	0.17569	0.001	3.43585	20.00000	Averaged	ccc
34 2-Methylnaphthalene	0.50936	0.53235	0.53235	0.000	4.51352	60.00000	Averaged	

General Engineering Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 18-JAN-2006 17:29
Lab File ID: s8a1812-ICV-SC. Init. Cal. Date(s): 17-JAN-2006 18-JAN-2006
Analysis Type: Init. Cal. Times: 16:51 23:20
Lab Sample ID: UBN060113-44.2 Quant Type: ISTD
Method: /chem/MSD8.i/s011806.b/MSD8-8270C-011806-SC.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
35 1-Methylnaphthalene	0.47148	0.45905	0.45905	0.000	-2.63648	60.00000	Averaged	
36 Hexachlorocyclopentadiene	0.24686	0.21887	0.21887	0.050	-11.33704	60.00000	Averaged	spcc
208 1,1'-Biphenyl	1.19664	1.30874	1.30874	0.000	9.36795	60.00000	Averaged	
37 2,4,6-Trichlorophenol	0.27160	0.29435	0.29435	0.001	8.37662	20.00000	Averaged	ccc
38 2,4,5-Trichlorophenol	0.28208	0.29197	0.29197	0.000	3.50804	60.00000	Averaged	
40 2-Chloronaphthalene	0.90593	0.88467	0.88467	0.000	-2.34629	60.00000	Averaged	
43 Dimethylphthalate	1.06244	1.08637	1.08637	0.000	2.25285	60.00000	Averaged	
44 2,6-Dinitrotoluene	0.20922	0.22728	0.22728	0.000	8.63382	60.00000	Averaged	
45 Acenaphthylene	1.46284	1.52953	1.52953	0.000	4.55929	60.00000	Averaged	
47 Acenaphthene	0.83805	0.88543	0.88543	0.001	5.65258	20.00000	Averaged	ccc
48 2,4-Dinitrophenol	46.35036	40.00000	0.06972	0.050	15.87590	60.00000	Linear	spcc
49 Dibenzofuran	0.51797	0.50002	0.50002	0.000	-3.46578	60.00000	Averaged	
50 2,4-Dinitrotoluene	0.25692	0.27105	0.27105	0.000	5.49992	60.00000	Averaged	
51 Diethylphthalate	1.10221	1.07724	1.07724	0.000	-2.26565	60.00000	Averaged	
52 4-Nitrophenol	39.66243	40.00000	0.12962	0.050	-0.84393	60.00000	Linear	spcc
53 Fluorene	0.93907	0.96451	0.96451	0.000	2.70837	60.00000	Averaged	
54 4-Chlorophenylphenylether	0.48094	0.46329	0.46329	0.000	-3.66954	60.00000	Averaged	
55 2-Methyl-4,6-dinitrophenol	39.06845	40.00000	0.08339	0.000	-2.32888	60.00000	Linear	
133 Diphenylamine	0.55710	0.56813	0.56813	0.001	1.98050	20.00000	Averaged	ccc
58 1,2-Diphenylhydrazine	0.56473	0.55115	0.55115	0.000	-2.40459	60.00000	Averaged	
59 Tributylphosphate	1.10503	1.15674	1.15674	0.000	4.67944	60.00000	Averaged	
61 4-Bromophenylphenylether	0.18525	0.16741	0.16741	0.000	-9.62818	60.00000	Averaged	
63 Hexachlorobenzene	0.20725	0.20760	0.20760	0.000	0.17135	60.00000	Averaged	
65 Pentachlorophenol	41.47559	40.00000	0.09795	0.001	3.68898	20.00000	Linear	ccc
206 n-Octadecane	0.50161	0.55413	0.55413	0.000	10.46973	60.00000	Averaged	
68 Phenanthrene	0.88312	0.93999	0.93999	0.000	6.43934	60.00000	Averaged	
69 Anthracene	0.88828	0.94147	0.94147	0.000	5.98863	60.00000	Averaged	
72 Di-n-butylphthalate	1.30622	1.31017	1.31017	0.000	0.30271	60.00000	Averaged	
76 Fluoranthene	1.01038	1.03402	1.03402	0.001	2.33958	20.00000	Averaged	ccc
79 Pyrene	1.57784	1.67354	1.67354	0.000	6.06534	60.00000	Averaged	
85 Butylbenzylphthalate	0.72990	0.76106	0.76106	0.000	4.26892	60.00000	Averaged	
89 Benzo(a)anthracene	0.99929	1.01559	1.01559	0.000	1.63173	60.00000	Averaged	
92 Chrysene	0.89176	0.89300	0.89300	0.000	0.13901	60.00000	Averaged	
93 bis(2-Ethylhexyl)phthalate	0.92929	0.91493	0.91493	0.000	-1.54604	60.00000	Averaged	
94 Di-n-octylphthalate	1.68212	1.67042	1.67042	0.001	-0.69556	20.00000	Averaged	ccc

General Engineering Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 18-JAN-2006 17:29
Lab File ID: s8a1812-ICV-SC. Init. Cal. Date(s): 17-JAN-2006 18-JAN-2006
Analysis Type: Init. Cal. Times: 16:51 23:20
Lab Sample ID: UBN060113-44.2 Quant Type: ISTD
Method: /chem/MSD8.i/s011806.b/MSD8-8270C-011806-SC.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
95 Benzo(b)fluoranthene	1.02931	1.09590	1.09590	0.000	6.46954	60.00000	Averaged	
96 Benzo(k)fluoranthene	1.04477	1.03740	1.03740	0.000	-0.70462	60.00000	Averaged	
97 Benzo(a)pyrene	0.87971	0.88518	0.88518	0.001	0.62176	20.00000	Averaged	ccc
99 Indeno(1,2,3-cd)pyrene	0.76359	0.82625	0.82625	0.000	8.20661	60.00000	Averaged	
100 Dibenzo(a,h)anthracene	0.61957	0.67860	0.67860	0.000	9.52677	60.00000	Averaged	
101 Benzo(ghi)perylene	0.61143	0.67316	0.67316	0.000	10.09555	60.00000	Averaged	
M 231 Trichlorophenols	0.27684	0.29316	0.29316	0.000	5.89627	60.00000	Averaged	
M 233 Benzo(b,k) fluoranthene	1.03704	1.06665	1.06665	0.000	2.85573	60.00000	Averaged	

Average %D / Drift Results.	
Calculated Average %D/Drift =	6.29146
Maximun Average %D/Drift =	20.00000
* Passed Average %D/Drift Test.	

General Engineering Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 02-FEB-2006 11:29
Lab File ID: s8b0202-SC.d Init. Cal. Date(s): 17-JAN-2006 20-JAN-2006
Analysis Type: Init. Cal. Times: 16:51 12:47
Lab Sample ID: UBN060127-01.1 Quant Type: ISTD
Method: /chem/MSD8.i/s020206.b/MSD8-8270C-012006-SC.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 3 2-Fluorophenol	1.12693	1.07366	1.07366	0.000	-4.72704	60.00000	Averaged
$ 5 Phenol-d5	1.27886	1.17049	1.17049	0.000	-8.47401	60.00000	Averaged
$ 20 Nitrobenzene-d5	0.20044	0.21952	0.21952	0.000	9.52075	60.00000	Averaged
$ 39 2-Fluorobiphenyl	0.98834	0.96397	0.96397	0.000	-2.46587	60.00000	Averaged
$ 60 2,4,6-Tribromophenol	0.11430	0.10252	0.10252	0.000	-10.30938	60.00000	Averaged
$ 81 p-Terphenyl-d14	1.06514	0.89329	0.89329	0.000	-16.13410	60.00000	Averaged
1 N-Methyl-N-nitrosomethylami	0.58922	0.53870	0.53870	0.000	-8.57370	60.00000	Averaged
2 Pyridine	1.08418	1.00900	1.00900	0.000	-6.93494	60.00000	Averaged
6 Phenol	1.32324	1.23554	1.23554	0.001	-6.62801	20.00000	Averaged ccc
7 bis(2-Chloroethyl) ether	1.32862	1.28026	1.28026	0.000	-3.63938	60.00000	Averaged
8 2-Chlorophenol	1.13833	1.09152	1.09152	0.000	-4.11178	60.00000	Averaged
185 n-Decane	1.19986	1.61097	1.61097	0.000	34.26338	60.00000	Averaged
9 1,3-Dichlorobenzene	1.38486	1.36365	1.36365	0.000	-1.53142	60.00000	Averaged
11 1,4-Dichlorobenzene	1.34941	1.34242	1.34242	0.001	-0.51773	20.00000	Averaged ccc
12 Benzyl alcohol	0.58842	0.54718	0.54718	0.000	-7.00865	60.00000	Averaged
13 1,2-Dichlorobenzene	1.20161	1.22134	1.22134	0.000	1.64194	60.00000	Averaged
14 bis(2-Chloroisopropyl)ether	1.81675	2.21071	2.21071	0.000	21.68522	60.00000	Averaged
15 o-Cresol	0.77250	0.73600	0.73600	0.000	-4.72450	60.00000	Averaged
16 Acetophenone	1.29576	1.25527	1.25527	0.000	-3.12524	60.00000	Averaged
17 N-Nitrosodipropylamine	0.62864	0.58466	0.58466	0.050	-6.99527	60.00000	Averaged spcc
18 m,p-Cresols	1.12183	1.06727	1.06727	0.000	-4.86352	60.00000	Averaged
19 Hexachloroethane	0.45755	0.47203	0.47203	0.000	3.16540	60.00000	Averaged
21 Nitrobenzene	0.18809	0.20414	0.20414	0.000	8.53100	60.00000	Averaged
22 Isophorone	0.39102	0.38523	0.38523	0.000	-1.48096	60.00000	Averaged
23 2-Nitrophenol	0.12548	0.13263	0.13263	0.001	5.69489	20.00000	Averaged ccc
24 2,4-Dimethylphenol	0.24030	0.23007	0.23007	0.000	-4.25611	60.00000	Averaged
25 bis(2-Chloroethoxy)methane	0.26592	0.26284	0.26284	0.000	-1.15894	60.00000	Averaged
26 2,4-Dichlorophenol	0.20034	0.20297	0.20297	0.001	1.30842	20.00000	Averaged ccc
27 Benzoic acid	0.07790	0.05480	0.05480	0.000	-29.66124	60.00000	Averaged
28 1,2,4-Trichlorobenzene	0.23098	0.23395	0.23395	0.000	1.28437	60.00000	Averaged
30 Naphthalene	0.67721	0.67498	0.67498	0.000	-0.32802	60.00000	Averaged
204 alpha-Terpineol	0.18253	0.20992	0.20992	0.000	15.00470	60.00000	Averaged
189 Caprolactam	0.07723	0.07692	0.07692	0.000	-0.39772	60.00000	Averaged
32 Hexachlorobutadiene	0.11727	0.12412	0.12412	0.001	5.84093	20.00000	Averaged ccc
33 4-Chloro-3-methylphenol	0.16985	0.18179	0.18179	0.001	7.02815	20.00000	Averaged ccc
34 2-Methylnaphthalene	0.50936	0.51988	0.51988	0.000	2.06632	60.00000	Averaged

General Engineering Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 02-FEB-2006 11:29
Lab File ID: s8b0202-SC.d Init. Cal. Date(s): 17-JAN-2006 20-JAN-2006
Analysis Type: Init. Cal. Times: 16:51 12:47
Lab Sample ID: UBN060127-01.1 Quant Type: ISTD
Method: /chem/MSD8.i/s020206.b/MSD8-8270C-012006-SC.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
35 1-Methylnaphthalene	0.47148	0.47233	0.47233	0.000	0.18091	60.00000	Averaged	
36 Hexachlorocyclopentadiene	0.24686	0.22246	0.22246	0.050	-9.88295	60.00000	Averaged	spcc
208 1,1'-Biphenyl	1.19664	1.24947	1.24947	0.000	4.41536	60.00000	Averaged	
37 2,4,6-Trichlorophenol	0.27160	0.26095	0.26095	0.001	-3.91966	20.00000	Averaged	ccc
38 2,4,5-Trichlorophenol	0.28208	0.28363	0.28363	0.000	0.55077	60.00000	Averaged	
40 2-Chloronaphthalene	0.90593	0.89392	0.89392	0.000	-1.32546	60.00000	Averaged	
43 Dimethylphthalate	1.06244	1.04505	1.04505	0.000	-1.63669	60.00000	Averaged	
44 2,6-Dinitrotoluene	0.20922	0.21470	0.21470	0.000	2.61930	60.00000	Averaged	
45 Acenaphthylene	1.46284	1.44106	1.44106	0.000	-1.48870	60.00000	Averaged	
47 Acenaphthene	0.83805	0.83839	0.83839	0.001	0.03962	20.00000	Averaged	ccc
48 2,4-Dinitrophenol	43.56764	40.00000	0.06263	0.050	8.91910	60.00000	Linear	spcc
49 Dibenzofuran	1.18540	1.18090	1.18090	0.000	-0.37975	60.00000	Averaged	
50 2,4-Dinitrotoluene	0.25692	0.27506	0.27506	0.000	7.05978	60.00000	Averaged	
51 Diethylphthalate	1.10221	1.11708	1.11708	0.000	1.34836	60.00000	Averaged	
52 4-Nitrophenol	45.44278	40.00000	0.15331	0.050	13.60694	60.00000	Linear	spcc
53 Fluorene	0.93907	0.96419	0.96419	0.000	2.67435	60.00000	Averaged	
54 4-Chlorophenylphenylether	0.48094	0.47018	0.47018	0.000	-2.23743	60.00000	Averaged	
55 2-Methyl-4,6-dinitrophenol	38.29684	40.00000	0.08119	0.000	-4.25789	60.00000	Linear	
133 Diphenylamine	0.55710	0.48116	0.48116	0.001	-13.63177	20.00000	Averaged	ccc
58 1,2-Diphenylhydrazine	0.56473	0.49820	0.49820	0.000	-11.78154	60.00000	Averaged	
59 Tributylphosphate	1.10503	1.12199	1.12199	0.000	1.53476	60.00000	Averaged	
61 4-Bromophenylphenylether	0.18525	0.15585	0.15585	0.000	-15.86671	60.00000	Averaged	
63 Hexachlorobenzene	0.20725	0.16938	0.16938	0.000	-18.27015	60.00000	Averaged	
65 Pentachlorophenol	33.44857	40.00000	0.07483	0.001	-16.37857	20.00000	Linear	ccc
206 n-Octadecane	0.50161	0.51612	0.51612	0.000	2.89162	60.00000	Averaged	
68 Phenanthrene	0.88312	0.78119	0.78119	0.000	-11.54200	60.00000	Averaged	
69 Anthracene	0.88828	0.77326	0.77326	0.000	-12.94829	60.00000	Averaged	
72 Di-n-butylphthalate	1.30622	1.15764	1.15764	0.000	-11.37477	60.00000	Averaged	
76 Fluoranthene	1.01038	0.87054	0.87054	0.001	-13.84109	20.00000	Averaged	ccc
79 Pyrene	1.57784	1.39821	1.39821	0.000	-11.38468	60.00000	Averaged	
85 Butylbenzylphthalate	0.72990	0.73533	0.73533	0.000	0.74385	60.00000	Averaged	
89 Benzo(a)anthracene	0.99929	0.89652	0.89652	0.000	-10.28411	60.00000	Averaged	
92 Chrysene	0.89176	0.79637	0.79637	0.000	-10.69668	60.00000	Averaged	
93 bis(2-Ethylhexyl)phthalate	0.92929	0.86467	0.86467	0.000	-6.95415	60.00000	Averaged	
94 Di-n-octylphthalate	1.68212	1.99300	1.99300	0.001	18.48136	20.00000	Averaged	ccc

General Engineering Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 02-FEB-2006 11:29
Lab File ID: s8b0202-SC.d Init. Cal. Date(s): 17-JAN-2006 20-JAN-2006
Analysis Type: Init. Cal. Times: 16:51 12:47
Lab Sample ID: UBN060127-01.1 Quant Type: ISTD
Method: /chem/MSD8.i/s020206.b/MSD8-8270C-012006-SC.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
95 Benzo(b)fluoranthene	1.02931	1.14240	1.14240	0.000	10.98694	60.00000	Averaged	
96 Benzo(k)fluoranthene	1.04477	1.24589	1.24589	0.000	19.25101	60.00000	Averaged	
97 Benzo(a)pyrene	0.87971	0.98274	0.98274	0.001	11.71180	20.00000	Averaged	ccc
99 Indeno(1,2,3-cd)pyrene	0.76359	0.72640	0.72640	0.000	-4.87012	60.00000	Averaged	
100 Dibenzo(a,h)anthracene	0.61957	0.59113	0.59113	0.000	-4.59044	60.00000	Averaged	
101 Benzo(ghi)perylene	0.61143	0.58451	0.58451	0.000	-4.40327	60.00000	Averaged	
M 231 Trichlorophenols	0.27684	0.27229	0.27229	0.000	-1.64215	60.00000	Averaged	
M 233 Benzo(b,k) fluoranthene	1.03704	1.19415	1.19415	0.000	15.14977	60.00000	Averaged	

Average %D / Drift Results.

Calculated Average %D/Drift = 7.37769
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

General Engineering Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSD8.i Injection Date: 02-FEB-2006 11:51
Lab File ID: s8b0203-SC.d Init. Cal. Date(s): 17-JAN-2006 20-JAN-2006
Analysis Type: Init. Cal. Times: 16:51 12:47
Lab Sample ID: UBN060127-02.1 Quant Type: ISTD
Method: /chem/MSD8.i/s020206.b/MSD8-8270C-012006-SC.m

COMPOUND	RRF / AMOUNT	RF40	CCAL RRF40	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
4 Aniline	1.56900	1.45500	1.45500	0.000	-7.26586	60.00000	Averaged
209 Benzaldehyde	0.83215	0.82578	0.82578	0.000	-0.76570	60.00000	Averaged
31 4-Chloroaniline	0.30943	0.28882	0.28882	0.000	-6.66082	60.00000	Averaged
205 2,3-Dichloroaniline	0.52074	0.44993	0.44993	0.000	-13.59773	60.00000	Averaged
42 o-Nitroaniline	48.42238	40.00000	0.20050	0.000	21.05594	60.00000	Linear
41 m-Nitroaniline	43.32192	40.00000	0.21111	0.000	8.30480	60.00000	Linear
56 p-Nitroaniline	42.75368	40.00000	0.18040	0.000	6.88420	60.00000	Linear
207 Atrazine	0.05826	0.05121	0.05121	0.000	-12.10518	60.00000	Averaged
77 Benzidine	79.58685	100	0.75428	0.000	-20.41315	60.00000	Linear
90 3,3'-Dichlorobenzidine	75.98213	100	0.28819	0.000	-24.01787	60.00000	Linear
173 Carbazole	0.84375	0.74750	0.74750	0.000	-11.40762	60.00000	Averaged

Average %D / Drift Results.	
Calculated Average %D/Drift =	12.04353
Maximun Average %D/Drift =	20.00000
* Passed Average %D/Drift Test.	

QUALITY CONTROL DATA

1B
SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) GROUND WAT Lab Sample ID: 1201021838

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S8B0225-1

Level: (low/med) LOW Date Received: 02/02/06

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/02/06

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 02/02/06

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10.0	U
111-44-4	bis(2-Chloroethyl) ether	10.0	U
95-57-8	2-Chlorophenol	10.0	U
100-51-6	Benzyl alcohol	10.0	U
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U
95-48-7	o-Cresol	10.0	U
621-64-7	N-Nitrosodipropylamine	10.0	U
65794-96-9	m,p-Cresols	10.0	U
67-72-1	Hexachloroethane	10.0	U
98-95-3	Nitrobenzene	10.0	U
78-59-1	Isophorone	10.0	U
88-75-5	2-Nitrophenol	10.0	U
105-67-9	2,4-Dimethylphenol	10.0	U
111-91-1	bis(2-Chloroethoxy)methane	10.0	U
120-83-2	2,4-Dichlorophenol	10.0	U
65-85-0	Benzoic acid	50.0	U
91-20-3	Naphthalene	10.0	U
106-47-8	4-Chloroaniline	10.0	U
87-68-3	Hexachlorobutadiene	10.0	U
59-50-7	4-Chloro-3-methylphenol	10.0	U
91-57-6	2-Methylnaphthalene	10.0	U
77-47-4	Hexachlorocyclopentadiene	10.0	U
88-06-2	2,4,6-Trichlorophenol	10.0	U
95-95-4	2,4,5-Trichlorophenol	50.0	U
91-58-7	2-Chloronaphthalene	10.0	U
88-74-4	o-Nitroaniline	50.0	U
99-09-2	m-Nitroaniline	50.0	U
131-11-3	Dimethylphthalate	10.0	U
606-20-2	2,6-Dinitrotoluene	10.0	U
208-96-8	Acenaphthylene	10.0	U
83-32-9	Acenaphthene	10.0	U
51-28-5	2,4-Dinitrophenol	50.0	U
132-64-9	Dibenzofuran	10.0	U

1C
SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) GROUND WAT Lab Sample ID: 1201021838

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S8B0225-1

Level: (low/med) LOW Date Received: 02/02/06

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/02/06

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 02/02/06

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	10.0	U
84-66-2	Diethylphthalate	10.0	U
100-02-7	4-Nitrophenol	50.0	U
86-73-7	Fluorene	10.0	U
7005-72-3	4-Chlorophenylphenylether	10.0	U
534-52-1	2-Methyl-4,6-dinitrophenol	50.0	U
100-01-6	p-Nitroaniline	50.0	U
122-39-4	Diphenylamine	10.0	U
101-55-3	4-Bromophenylphenylether	10.0	U
118-74-1	Hexachlorobenzene	10.0	U
87-86-5	Pentachlorophenol	50.0	U
85-01-8	Phenanthrene	10.0	U
120-12-7	Anthracene	10.0	U
84-74-2	Di-n-butylphthalate	10.0	U
206-44-0	Fluoranthene	10.0	U
129-00-0	Pyrene	10.0	U
85-68-7	Butylbenzylphthalate	10.0	U
56-55-3	Benzo(a)anthracene	10.0	U
91-94-1	3,3'-Dichlorobenzidine	20.0	U
218-01-9	Chrysene	10.0	U
117-81-7	bis(2-Ethylhexyl)phthalate	10.0	U
117-84-0	Di-n-octylphthalate	10.0	U
205-99-2	Benzo(b)fluoranthene	10.0	U
207-08-9	Benzo(k)fluoranthene	10.0	U
50-32-8	Benzo(a)pyrene	10.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U
53-70-3	Dibenzo(a,h)anthracene	10.0	U
191-24-2	Benzo(ghi)perylene	10.0	U
86-74-8	Carbazole	10.0	U

1F
SVOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK01

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) GROUND WATER Lab Sample ID: 1201021838

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S8B0225-1

Level: (low/med) LOW Date Received: 02/02/06

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/02/06

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 02/02/06

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.18	4.6	J
2.	UNKNOWN	3.37	13.6	J
3.	UNKNOWN	3.45	4.1	J
4.	UNKNOWN	3.52	7.9	J
5. 4291-79-6	CYCLOHEXANE, 1-METHYL-2-PROP	3.54	9.3	NJ
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FORM I SV-TIC OLM03.0

1B
SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01LCS

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) GROUND WAT Lab Sample ID: 1201021839

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S8B0226-1

Level: (low/med) LOW Date Received: 02/02/06

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/02/06

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 02/02/06

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	29.3	
111-44-4	bis(2-Chloroethyl) ether	32.4	
95-57-8	2-Chlorophenol	70.5	
100-51-6	Benzyl alcohol	34.3	
108-60-1	bis(2-Chloroisopropyl)ether	46.9	
95-48-7	o-Cresol	69.2	
621-64-7	N-Nitrosodipropylamine	40.2	
65794-96-9	m,p-Cresols	61.3	
67-72-1	Hexachloroethane	29.6	
98-95-3	Nitrobenzene	43.2	
78-59-1	Isophorone	40.6	
88-75-5	2-Nitrophenol	82.0	
105-67-9	2,4-Dimethylphenol	73.6	
111-91-1	bis(2-Chloroethoxy)methane	38.4	
120-83-2	2,4-Dichlorophenol	76.3	
65-85-0	Benzoic acid	13.8	J
91-20-3	Naphthalene	36.4	
106-47-8	4-Chloroaniline	46.6	
87-68-3	Hexachlorobutadiene	28.1	
59-50-7	4-Chloro-3-methylphenol	84.4	
91-57-6	2-Methylnaphthalene	36.6	
77-47-4	Hexachlorocyclopentadiene	20.4	
88-06-2	2,4,6-Trichlorophenol	76.1	
95-95-4	2,4,5-Trichlorophenol	72.7	
91-58-7	2-Chloronaphthalene	32.0	
88-74-4	o-Nitroaniline	53.4	
99-09-2	m-Nitroaniline	48.4	J
131-11-3	Dimethylphthalate	40.4	
606-20-2	2,6-Dinitrotoluene	43.1	
208-96-8	Acenaphthylene	37.9	
83-32-9	Acenaphthene	39.3	
51-28-5	2,4-Dinitrophenol	76.1	
132-64-9	Dibenzofuran	36.8	

1C
SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01LCS

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) GROUND WAT Lab Sample ID: 1201021839

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S8B0226-1

Level: (low/med) LOW Date Received: 02/02/06

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/02/06

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 02/02/06

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	44.9	
84-66-2	Diethylphthalate	42.6	
100-02-7	4-Nitrophenol	34.7	J
86-73-7	Fluorene	39.1	
7005-72-3	4-Chlorophenylphenylether	34.4	
534-52-1	2-Methyl-4,6-dinitrophenol	77.9	
100-01-6	p-Nitroaniline	46.9	J
122-39-4	Diphenylamine	36.4	
101-55-3	4-Bromophenylphenylether	31.3	
118-74-1	Hexachlorobenzene	30.2	
87-86-5	Pentachlorophenol	64.2	
85-01-8	Phenanthrene	35.8	
120-12-7	Anthracene	36.1	
84-74-2	Di-n-butylphthalate	39.5	
206-44-0	Fluoranthene	37.4	
129-00-0	Pyrene	37.5	
85-68-7	Butylbenzylphthalate	43.6	
56-55-3	Benzo(a)anthracene	39.3	
91-94-1	3,3'-Dichlorobenzidine	30.5	
218-01-9	Chrysene	38.0	
117-81-7	bis(2-Ethylhexyl)phthalate	41.0	
117-84-0	Di-n-octylphthalate	50.2	
205-99-2	Benzo(b)fluoranthene	46.4	
207-08-9	Benzo(k)fluoranthene	51.2	
50-32-8	Benzo(a)pyrene	47.8	
193-39-5	Indeno(1,2,3-cd)pyrene	49.4	
53-70-3	Dibenzo(a,h)anthracene	49.0	
191-24-2	Benzo(ghi)perylene	49.9	
86-74-8	Carbazole	34.6	

FORM I SV-2 OLM03.0

1B
SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F16GP001R1MS

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) GROUND WAT Lab Sample ID: 1201021840

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S8B0228

Level: (low/med) LOW Date Received: 01/26/06

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/02/06

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 02/02/06

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	24.0	J
111-44-4	bis(2-Chloroethyl) ether	200	U
95-57-8	2-Chlorophenol	200	U
100-51-6	Benzyl alcohol	200	U
108-60-1	bis(2-Chloroisopropyl)ether	200	U
95-48-7	o-Cresol	69.4	J
621-64-7	N-Nitrosodipropylamine	200	U
65794-96-9	m,p-Cresols	61.0	J
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	67.7	J
111-91-1	bis(2-Chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
65-85-0	Benzoic acid	1000	U
91-20-3	Naphthalene	25.4	J
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
59-50-7	4-Chloro-3-methylphenol	59.0	J
91-57-6	2-Methylnaphthalene	21.0	J
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	17.3	J
88-74-4	o-Nitroaniline	131	J
99-09-2	m-Nitroaniline	147	J
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	17.7	J
83-32-9	Acenaphthene	22.1	J
51-28-5	2,4-Dinitrophenol	1000	U
132-64-9	Dibenzofuran	200	U

FORM I SV-1 OLM03.0

1C
SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F16GP001R1MS

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) GROUND WAT Lab Sample ID: 1201021840

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S8B0228

Level: (low/med) LOW Date Received: 01/26/06

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/02/06

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 02/02/06

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	398	
84-66-2	Diethylphthalate	200	U
100-02-7	4-Nitrophenol	171	J
86-73-7	Fluorene	19.8	J
7005-72-3	4-Chlorophenylphenylether	200	U
534-52-1	2-Methyl-4,6-dinitrophenol	1000	U
100-01-6	p-Nitroaniline	192	J
122-39-4	Diphenylamine	200	U
101-55-3	4-Bromophenylphenylether	200	U
118-74-1	Hexachlorobenzene	200	U
87-86-5	Pentachlorophenol	150	J
85-01-8	Phenanthrene	18.9	J
120-12-7	Anthracene	21.9	J
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	17.4	J
129-00-0	Pyrene	31.7	J
85-68-7	Butylbenzylphthalate	200	U
56-55-3	Benzo(a)anthracene	20.7	J
91-94-1	3,3'-Dichlorobenzidine	226	J
218-01-9	Chrysene	23.7	J
117-81-7	bis(2-Ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	21.2	J
207-08-9	Benzo(k)fluoranthene	20.6	J
50-32-8	Benzo(a)pyrene	20.4	J
193-39-5	Indeno(1,2,3-cd)pyrene	16.9	J
53-70-3	Dibenzo(a,h)anthracene	14.5	J
191-24-2	Benzo(ghi)perylene	18.7	J
86-74-8	Carbazole	19.2	J

FORM I SV-2 OLM03.0

1B
SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F16GP001R1MSD

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) GROUND WAT Lab Sample ID: 1201021841

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S8B0229

Level: (low/med) LOW Date Received: 01/26/06

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/02/06

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 02/02/06

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	200	U
111-44-4	bis(2-Chloroethyl) ether	200	U
95-57-8	2-Chlorophenol	200	U
100-51-6	Benzyl alcohol	200	U
108-60-1	bis(2-Chloroisopropyl)ether	200	U
95-48-7	o-Cresol	51.2	J
621-64-7	N-Nitrosodipropylamine	200	U
65794-96-9	m,p-Cresols	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	54.2	J
111-91-1	bis(2-Chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
65-85-0	Benzoic acid	1000	U
91-20-3	Naphthalene	22.7	J
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
59-50-7	4-Chloro-3-methylphenol	42.6	J
91-57-6	2-Methylnaphthalene	18.0	J
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	15.4	J
88-74-4	o-Nitroaniline	122	J
99-09-2	m-Nitroaniline	144	J
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	15.6	J
83-32-9	Acenaphthene	18.8	J
51-28-5	2,4-Dinitrophenol	1000	U
132-64-9	Dibenzofuran	200	U

FORM I SV-1 OLM03.0

1C
SVOA ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

F16GP001R1MSD

Lab Name: GEL, LLC. Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 154608

Matrix: (soil/water) GROUND WAT Lab Sample ID: 1201021841

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S8B0229

Level: (low/med) LOW Date Received: 01/26/06

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 02/02/06

Concentrated Extract Volume: 1.00(mL) Date Analyzed: 02/02/06

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
121-14-2	2,4-Dinitrotoluene	402	
84-66-2	Diethylphthalate	200	U
100-02-7	4-Nitrophenol	166	J
86-73-7	Fluorene	17.8	J
7005-72-3	4-Chlorophenylphenylether	200	U
534-52-1	2-Methyl-4,6-dinitrophenol	1000	U
100-01-6	p-Nitroaniline	183	J
122-39-4	Diphenylamine	200	U
101-55-3	4-Bromophenylphenylether	200	U
118-74-1	Hexachlorobenzene	200	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	14.9	J
120-12-7	Anthracene	17.7	J
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	14.2	J
129-00-0	Pyrene	24.7	J
85-68-7	Butylbenzylphthalate	200	U
56-55-3	Benzo(a)anthracene	17.6	J
91-94-1	3,3'-Dichlorobenzidine	223	J
218-01-9	Chrysene	18.4	J
117-81-7	bis(2-Ethylhexyl)phthalate	200	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	17.0	J
207-08-9	Benzo(k)fluoranthene	18.5	J
50-32-8	Benzo(a)pyrene	18.1	J
193-39-5	Indeno(1,2,3-cd)pyrene	14.7	J
53-70-3	Dibenzo(a,h)anthracene	13.3	J
191-24-2	Benzo(ghi)perylene	15.4	J
86-74-8	Carbazole	17.4	J

MISCELLANEOUS DATA

GEL ORGANIC RUN LOG INSTRUMENT ID: MSD 8

DATE:02/02/06 METHOD: 8270 OPERATOR:nag REVIEWED BY:_____
DATE:_____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 8 on pg.109
Multiplier Voltage: 1753 Emv Extr. Injection Volume: 0.5, 1.0 ul SOLVENT REF MAT060125-a
DFTPP Solution ID: WBN060202-01 Internal Std ID: WBN060124-01
Sequence Number:s020206 Initial Calibration Date(s):01/20/06 SOP: GL-OA-E-009 Rev. 15

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
s8b0201.d	WBN060103-01	nagl	02-FEB-2006 11:13		s020206	1.0	DFTPP	
s8b0202-SC.d	UBN060127-01.1	nagl	02-FEB-2006 11:29	40 PPM	s020206	1.0	BNACVS	
s8b0202.d	UBN060127-01.1	nagl	02-FEB-2006 11:29	40 PPM	s020206	1.0	BNACVS	
s8b0203-SC.d	UBN060127-02.1	nagl	02-FEB-2006 11:51	40 PPM	s020206	1.0	ANBZCVS	
s8b0203.d	UBN060127-02.1	nagl	02-FEB-2006 11:51	40 PPM	s020206	1.0	ANBZCVS	
s8b0204-SC.d	UBN060117-09.1	nagl	02-FEB-2006 12:12	40 PPM	s020206	1.0	167CVS	
s8b0204.d	UBN060117-09.1	nagl	02-FEB-2006 12:12	40 PPM	s020206	1.0	167CVS	
s8b0205-SC.d	UBN060117-10.1	nagl	02-FEB-2006 12:34	40 PPM	s020206	1.0	168CVS	
s8b0205.d	UBN060117-10.1	nagl	02-FEB-2006 12:34	40 PPM	s020206	1.0	168CVS	
s8b0206-SC.d	UBN060117-11.1	nagl	02-FEB-2006 12:56	40 PPM	s020206	1.0	AP9CVS	
s8b0206.d	UBN060117-11.1	nagl	02-FEB-2006 12:56	40 PPM	s020206	1.0	AP9CVS	
s8b0207.d	UBN060117-12.1	nagl	02-FEB-2006 13:18	1250 PPM	s020206	1.0	HEXCVS	
s8b0208-1.d	1201019096	nagl	02-FEB-2006 13:39	497943	MAPEP15-OW	1.0	SBLK01	
s8b0208-2.d	1201019096	nagl	02-FEB-2006 13:39	497943	NY290-NPW-1Q06	1.0	SBLK01	
s8b0208.d	1201019096	nagl	02-FEB-2006 13:39	497943	s020206	1.0	SBLK01	
s8b0209-1.d	1201019097	nagl	02-FEB-2006 14:01	497943	MAPEP15-OW	1.0	SBLK01LCS	
s8b0209-2.d	1201019097	nagl	02-FEB-2006 14:01	497943	NY290-NPW-1Q06	1.0	SBLK01LCS	
s8b0209.d	1201019097	nagl	02-FEB-2006 14:01	497943	s020206	1.0	SBLK01LCS	
s8b0210-1.d	1201019098	nagl	02-FEB-2006 14:23	497943	MAPEP15-OW	1.0	SBLK01LCSD	
s8b0210-2.d	1201019098	nagl	02-FEB-2006 14:23	497943	NY290-NPW-1Q06	1.0	SBLK01LCSD	
s8b0210.d	1201019098	nagl	02-FEB-2006 14:23	497943	s020206	1.0	SBLK01LCSD	

s8b0211.d	1201023355	nagl	02-FEB-2006 14:45	499799	154848	1.0	SBLK01	
s8b0212.d	1201023356	nagl	02-FEB-2006 15:06	499799	154848	1.0	SBLK01LCS	
s8b0213.d	154632001	nagl	02-FEB-2006 15:28	498710	154632	1.0	GEEL	rr of s8b0116
s8b0214.d	154486001	nagl	02-FEB-2006 15:50	497640	154486	1.0	GEEL	rr of s7a2715
s8b0215.d	154486009	nagl	02-FEB-2006 16:12	497640	154486	1.0	GEEL	DUSE - failed surr - RX
s8b0216.d	153899001	nagl	02-FEB-2006 16:34	497943	MAPEP15-OW	1.0	QCQA	OR hit - rr
s8b0217.d	154502005	nagl	02-FEB-2006 16:55	497943	NY290-NPW-1Q06	1.0	QCQA	
s8b0218.d	154502006	nagl	02-FEB-2006 17:17	497943	NY290-NPW-1Q06	1.0	QCQA	OR hit - rr
s8b0219.d	154502007	nagl	02-FEB-2006 17:39	497943	NY290-NPW-1Q06	1.0	QCQA	OR hit - rr
s8b0220.d	154502020	nagl	02-FEB-2006 18:00	497943	NY290-NPW-1Q06	1.0	QCQA	OR hit - rr
s8b0221.d	154848003	nagl	02-FEB-2006 18:22	499799	154848	1.0	SANT	failed surr - confirms MS/MSD
s8b0222.d	1201023357	nagl	02-FEB-2006 18:44	499799	154848	1.0	SANT001MS	failed surr and spike - confirms MSD
s8b0223.d	1201023358	nagl	02-FEB-2006 19:06	499799	154848	1.0	SANT001MSD	failed surr and spike - confirms MS
s8b0224.d	UE060131-09	nagl	02-FEB-2006 19:28	LCSSCREEN	s020206	1.0	LCSSCREEN	
s8b0225-1.d	1201021838	nagl	02-FEB-2006 19:50	491819	154608	1.0	MB	
s8b0225-2.d	1201021838	nagl	02-FEB-2006 19:50	491819	154700	1.0	MB	
s8b0225-3.d	1201021838	nagl	02-FEB-2006 19:50	491819	154782	1.0	MB	
s8b0225.d	1201021838	nagl	02-FEB-2006 19:50	491819	s020206	1.0	MB	
s8b0226-1.d	1201021839	nagl	02-FEB-2006 20:12	491819	154608	1.0	LCS	failed C48 high - no hits above PQL in samples
s8b0226-2.d	1201021839	nagl	02-FEB-2006 20:12	491819	154700	1.0	LCS	
s8b0226-3.d	1201021839	nagl	02-FEB-2006 20:12	491819	154782	1.0	LCS	
s8b0226.d	1201021839	nagl	02-FEB-2006 20:12	491819	s020206	1.0	LCS	
s8b0227.d	154608001	nagl	02-FEB-2006 20:34	491819	154608	10.0	CH2M	
s8b0228.d	1201021840	nagl	02-FEB-2006 20:56	491819	154608	10.0	MS	failed surr and spike - confirms MSD
s8b0229.d	1201021841	nagl	02-FEB-2006 21:18	491819	154608	10.0	MSD	failed surr and spike - confirms MS
s8b0230.d	154608002	nagl	02-FEB-2006 21:39	491819	154608	1.0	CH2M	
s8b0231.d	154700008	nagl	02-FEB-2006 22:01	491819	154700	1.0	GEEL	

GEL ORGANIC RUN LOG INSTRUMENT ID: MSD 8

DATE:01/17/06 METHOD: 8270,625 OPERATOR: nag REVIEWED BY:_____
DATE:_____

HARDWARE CONFIGURATION & METHOD SUMMARY: No.8 on pg.109
Multiplier Voltage:1753 Emv Extr. Injection Volume: 0.5, 1.0 ul SOLVENT REF MAT051205-a
DFTPP Solution ID: WBN060103-1 Internal Std ID: WBN051220-01
Sequence Number:s011706 s Initial Calibration Date(s):01/17/06 s SOP: GL-OA-E-009 Rev. 15

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
s8a1701.d	WBN060103-01-01	nag1	17-JAN-2006 15:51		s011706	1.0	dftpp	
s8a1702.d	INSTRBLK	nag1	17-JAN-2006 16:06	40 PPM	s011706	1.0	INSTRBLK	
s8a1703.d	UBN060105-01	nag1	17-JAN-2006 16:51	1 PPM	s011706	1.0	BNAICAL001	DUSE
s8a1704.d	UBN060105-02	nag1	17-JAN-2006 17:12	10 PPM	s011706	1.0	BNAICAL010	DUSE
s8a1705.d	UBN060105-03	nag1	17-JAN-2006 17:33	20 PPM	s011706	1.0	BNAICAL020	DUSE
s8a1706.d	UBN060105-04	nag1	17-JAN-2006 17:55	40 PPM	s011706	1.0	BNAICAL040	DUSE
s8a1707.d	UBN060105-05	nag1	17-JAN-2006 18:16	50 PPM	s011706	1.0	BNAICAL050	DUSE
s8a1708.d	UBN060105-06	nag1	17-JAN-2006 18:38	80 PPM	s011706	1.0	BNAICAL080	DUSE
s8a1709.d	UBN060105-07	nag1	17-JAN-2006 18:59	100 PPM	s011706	1.0	BNAICAL100	DUSE
s8a1710.d	UBN060105-08	nag1	17-JAN-2006 19:21	120 PPM	s011706	1.0	BNAICAL120	DUSE
s8a1711.d	INTR BLK	nag1	17-JAN-2006 19:42		s011706	1.0	INTR BLK	
s8a1712.d	UBN060113-44.2	nag1	17-JAN-2006 20:04	40 PPM	s011706	1.0	BNAICV	DUSE
s8a1713.d	INTR BLK	nag1	17-JAN-2006 20:25		s011706	1.0	INTR BLK	
s8a1714.d	UBN060116-01	nag1	17-JAN-2006 20:47	1 PPM	s011706	1.0	ANBZICAL001	
s8a1715.d	UBN060116-02	nag1	17-JAN-2006 21:08	10 PPM	s011706	1.0	ANBZICAL010	
s8a1716.d	UBN060116-03	nag1	17-JAN-2006 21:30	20 PPM	s011706	1.0	ANBZICAL020	
s8a1717-istd.d	UBN060116-04	nag1	17-JAN-2006 21:51	40 PPM	s011706	1.0	ANBZICAL040	
s8a1718.d	UBN060116-05	nag1	17-JAN-2006 22:13	50 PPM	s011706	1.0	ANBZICAL050	
s8a1719.d	UBN060116-06	nag1	17-JAN-2006 22:34	80 PPM	s011706	1.0	ANBZICAL080	
s8a1720.d	UBN060116-07	nag1	17-JAN-2006 22:55	100 PPM	s011706	1.0	ANBZICAL100	
s8a1721.d	UBN060116-08	nag1	17-JAN-2006 23:16	120 PPM	s011706	1.0	ANBZICAL120	

s8a1722.d	INTR BLK	nag1	17-JAN-2006 23:38		s011706	1.0	INTR BLK	
s8a1723.d	UBN051212-05	nag1	17-JAN-2006 23:59	10 PPM	s011706	1.0	167ICAL010	
s8a1724.d	UBN051212-06	nag1	18-JAN-2006 00:20	20 PPM	s011706	1.0	167ICAL020	
s8a1725-istd.d	UBN051212-07	nag1	18-JAN-2006 00:41	40 PPM	s011706	1.0	167ICAL040	
s8a1726.d	UBN051212-08	nag1	18-JAN-2006 01:02	50 PPM	s011706	1.0	167ICAL050	
s8a1727.d	UBN051212-09	nag1	18-JAN-2006 01:24	80 PPM	s011706	1.0	167ICAL080	
s8a1728.d	UBN051212-10	nag1	18-JAN-2006 01:45	100 PPM	s011706	1.0	167ICAL100	
s8a1729.d	UBN051212-12	nag1	18-JAN-2006 02:06	120 PPM	s011706	1.0	167ICAL120	
s8a1730.d	INTR BLK	nag1	18-JAN-2006 02:27		s011706	1.0	INTR BLK	
s8a1731.d	UBN051213-26	nag1	18-JAN-2006 02:48	500 PPM	s011706	1.0	HEXICAL500	DUSE last 2 standards ot of tune window; see 01/20/06
s8a1732.d	UBN051213-27	nag1	18-JAN-2006 03:09	1000 PPM	s011706	1.0	HEXICAL1000	
s8a1733.d	UBN051213-28	nag1	18-JAN-2006 03:31	1250 PPM	s011706	1.0	HEXICAL1250	
s8a1734.d	UBN051213-29	nag1	18-JAN-2006 03:52	2000PPM	s011706	1.0	HEXICAL2000	out of tune window
s8a1735.d	UBN051213-30	nag1	18-JAN-2006 04:13	2500PPM	s011706	1.0	HEXICAL2500	out of tune window
s8a1736.d	INTR BLK	nag1	18-JAN-2006 04:34		s011706	1.0	INTR BLK	
s8a1737.d	WBN060103-01-01	nag1	18-JAN-2006 04:52		s011706	1.0	dftpp	DUSE - fails
s8a1738.d	INTR BLK	nag1	18-JAN-2006 05:08		s011706	1.0	INTR BLK	DUSE
s8a1739.d	UBN051213-12	nag1	18-JAN-2006 05:29	10 PPM	s011706	1.0	168ICAL010	DUSE
s8a1740.d	UBN051213-13	nag1	18-JAN-2006 05:50	20 PPM	s011706	1.0	168ICAL020	DUSE
s8a1741.d	UBN051213-14	nag1	18-JAN-2006 06:12	40 PPM	s011706	1.0	168ICAL040	DUSE
s8a1742.d	UBN051213-15	nag1	18-JAN-2006 06:33	50 PPM	s011706	1.0	168ICAL050	DUSE
s8a1743.d	UBN051213-16	nag1	18-JAN-2006 06:55	80 PPM	s011706	1.0	168ICAL080	DUSE
s8a1744.d	UBN051213-17	nag1	18-JAN-2006 07:16	100 PPM	s011706	1.0	168ICAL100	DUSE
s8a1745.d	UBN051213-18	nag1	18-JAN-2006 07:37	120 PPM	s011706	1.0	168ICAL120	DUSE
s8a1746.d	INTR BLK	nag1	18-JAN-2006 07:58		s011706	1.0	INTR BLK	DUSE
s8a1747.d	UBN051213-19	nag1	18-JAN-2006 08:20	10 PPM	s011706	1.0	AP9ICAL010	DUSE
s8a1748.d	UBN051213-20	nag1	18-JAN-2006 08:41	20 PPM	s011706	1.0	AP9ICAL020	DUSE

s8a1749.d	UBN051213-21	nag1	18-JAN-2006 09:03	40 PPM	s011706	1.0	AP9ICAL040	DUSE
s8a1750.d	UBN051213-22	nag1	18-JAN-2006 09:25	50 PPM	s011706	1.0	AP9ICAL050	DUSE
s8a1751.d	UBN051213-23	nag1	18-JAN-2006 09:46	80 PPM	s011706	1.0	AP9ICAL080	DUSE
s8a1752.d	UBN051213-24	nag1	18-JAN-2006 10:08	100 PPM	s011706	1.0	AP9ICAL100	DUSE
s8a1753.d	UBN051213-25	nag1	18-JAN-2006 10:30	120 PPM	s011706	1.0	AP9ICAL120	DUSE
s8a1754.d	INTR BLK	nag1	18-JAN-2006 10:51		s011706	1.0	INTR BLK	DUSE
s8a1755.d	UBN051213-31	nag1	18-JAN-2006 11:13	50 PPM	s011706	1.0	CAREICAL050	DUSE
s8a1756.d	UBN051213-32	nag1	18-JAN-2006 11:42	75 PPM	s011706	1.0	CAREICAL075	DUSE
s8a1757.d	UBN051213-33	nag1	18-JAN-2006 12:11	100 PPM	s011706	1.0	CAREICAL100	DUSE
s8a1758.d	UBN051213-34	nag1	18-JAN-2006 12:40	125 PPM	s011706	1.0	CAREICAL125	DUSE

Instrument Batch: /chem/MSD8.i/s011706.b

GEL ORGANIC RUN LOG INSTRUMENT ID: MSD 8

DATE:01/18/06 METHOD: 8270,625 OPERATOR:NAG REVIEWED BY:_____
DATE:_____

HARDWARE CONFIGURATION & METHOD SUMMARY: No. 8 on pg.109
Multiplier Voltage: 1753 Emv Extr. Injection Volume: 0.5, 1.0 ul SOLVENT REF MAT051205-A
DFTPP Solution ID: WBN050103-01 Internal Std ID: WBN060112-01
Sequence Number:S011806 Initial Calibration Date(s): 01/18/06 SOP: GL-OA-E-009 Rev. 15

Data File	GEL Lab Sample ID	Analyst	Injection Date/Time	Batch	SDG	Dilution	Client	Comments
s8a1801.d	WBN060103-01-01	nagl	18-JAN-2006 13:38		s011806	1.0	DFTPP	
s8a1802.d	INTR BLK	nagl	18-JAN-2006 13:53		s011806	1.0	INTR BLK	
s8a1803.d	UBN060105-01	nagl	18-JAN-2006 14:14	1 PPM	s011806	1.0	BNAICAL001	
s8a1804.d	UBN060105-02	nagl	18-JAN-2006 14:35	10 PPM	s011806	1.0	BNAICAL010	
s8a1805.d	UBN060105-03	nagl	18-JAN-2006 14:57	20 PPM	s011806	1.0	BNAICAL020	
s8a1806-istd.d	UBN060105-04	nagl	18-JAN-2006 15:18	40 PPM	s011806	1.0	BNAICAL040	
s8a1807.d	UBN060105-05	nagl	18-JAN-2006 15:39	50 PPM	s011806	1.0	BNAICAL050	
s8a1808.d	UBN060105-06	nagl	18-JAN-2006 16:01	80 PPM	s011806	1.0	BNAICAL080	
s8a1809.d	UBN060105-07	nagl	18-JAN-2006 16:23	100 PPM	s011806	1.0	BNAICAL100	
s8a1810.d	UBN060105-08	nagl	18-JAN-2006 16:45	120 PPM	s011806	1.0	BNAICAL120	
s8a1811.d	INTR BLK	nagl	18-JAN-2006 17:07		s011806	1.0	INTR BLK	
s8a1812-ICV-SC.d	UBN060113-44.2	nagl	18-JAN-2006 17:29	40 PPM	s011806	1.0	BNAICV	
s8a1812-ICV.d	UBN060113-44.2	nagl	18-JAN-2006 17:29	40 PPM	s011806	1.0	BNAICV	
s8a1813.d	INTR BLK	nagl	18-JAN-2006 17:51		s011806	1.0	INTR BLK	
s8a1814.d	UBN051213-12	nagl	18-JAN-2006 18:13	10 PPM	s011806	1.0	168ICAL010	
s8a1815.d	UBN051213-13	nagl	18-JAN-2006 18:35	20 PPM	s011806	1.0	168ICAL020	
s8a1816-istd.d	UBN051213-14	nagl	18-JAN-2006 18:57	40 PPM	s011806	1.0	168ICAL040	
s8a1817.d	UBN051213-15	nagl	18-JAN-2006 19:19	50 PPM	s011806	1.0	168ICAL050	
s8a1818.d	UBN051213-16	nagl	18-JAN-2006 19:41	80 PPM	s011806	1.0	168ICAL080	
s8a1819.d	UBN051213-17	nagl	18-JAN-2006 20:03	100 PPM	s011806	1.0	168ICAL100	
s8a1820.d	UBN051213-18	nagl	18-JAN-2006 20:25	120 PPM	s011806	1.0	168ICAL120	

s8a1821.d	INTR BLK	nag1	18-JAN-2006 20:46		s011806	1.0	INTR BLK	
s8a1822.d	UBN051213-19	nag1	18-JAN-2006 21:08	10 PPM	s011806	1.0	AP9ICAL010	
s8a1823.d	UBN051213-20	nag1	18-JAN-2006 21:30	20 PPM	s011806	1.0	AP9ICAL020	
s8a1824-istd.d	UBN051213-21	nag1	18-JAN-2006 21:52	40 PPM	s011806	1.0	AP9ICAL040	
s8a1825.d	UBN051213-22	nag1	18-JAN-2006 22:14	50 PPM	s011806	1.0	AP9ICAL050	
s8a1826.d	UBN051213-23	nag1	18-JAN-2006 22:36	80 PPM	s011806	1.0	AP9ICAL080	
s8a1827.d	UBN051213-24	nag1	18-JAN-2006 22:58	100 PPM	s011806	1.0	AP9ICAL100	
s8a1828.d	UBN051213-25	nag1	18-JAN-2006 23:20	120 PPM	s011806	1.0	AP9ICAL120	

Prep Logbook

Extraction of Semivolatile and Nonvolatile Organic Compounds from Groundwater, Wastewater and Other Aqueous Samples

Batch ID: 499180 **Verified by:** _____

Analyst: Jessica Petronis

Method: SW846 3510C

Lab SOP: GL-OA-E-013 REV# 14

Instrument: Semi-Volatiles Manual

Sample ID	Run Date	Initial Volume (mL)	Initial pH	Int Ext pH	Sec Ext pH	Final Volume (mL)	Prepped Factor (mL/mL)
1201021838 MB	02-FEB-2006 16:14:02	1000	7	<2	>11	1	0.001
1201021839 LCS	02-FEB-2006 16:14:02	1000	7	<2	>11	1	0.001
154608001	02-FEB-2006 16:14:02	1030	7	<2	>11	1	0.00097
1201021840 MS (154608001)	02-FEB-2006 16:14:02	500	7	<2	>11	1	0.002
1201021841 MSD (154608001)	02-FEB-2006 16:14:02	500	7	<2	>11	1	0.002
154608002	02-FEB-2006 16:14:02	950	5	<2	>11	1	0.00105
154700008	02-FEB-2006 16:14:02	1060	6	<2	>11	1	0.00094
154782001	02-FEB-2006 16:14:02	980	6	<2	>11	1	0.00102

Type	Sample Id	Description	Serial Number	Spike Amt	Units
LCS	1201021839	BNA LCS for all spikes	UE060131-09	1	mL
MS	1201021840	BNA LCS for all spikes	UE060131-09	1	mL
MSD	1201021841	BNA LCS for all spikes	UE060131-09	1	mL
SURR	All	BNA for all SurrogateS	UE060131-13	1	mL
REGNT	All	Methylene Chloride	060131-A	360	mL
REGNT	All	Sulfuric Acid Sol., 1:1	12-MAR-2005	2	mL
REGNT	All	10 N sodium hydroxide solution	344502-C	10	mL
SOURC	All	SODIUM SULFATE	243217	30	g

Comments:

Final Solvent: CH2Cl2

Verified By: NJ

SAMPLE 154608001 AND ITS MS AND MSD WERE EXTREMELY EMULSIVE DURING THE ACID AND BASE PHASES OF EXTRACTION! (2/3-3/4 OF THE SAMPLE VOLUME WAS EMULSION) THERE WAS ALSO A LOT OF SEDIMENT IN THE SAMPLES AS WELL. 154608001 REQUIRED AN EXTRA 600 mL OF CH2CL2 TO BREAK THE EMULSION. THE MS AND MSD REQUIRED AN EXTRA 360 mL OF CH2CL2 TO BREAK THE EMULSION.

General Engineering Laboratories
Form GEL-NCR
Rev. 06/05

NCR Report No.: 289976
Revision No.:

COMPANY - WIDE NONCONFORMANCE REPORT

Mo.Day Yr.	Division:	Quality Criteria:	Type:
09-FEB-06	Federal	Specifications	Process
Instrument Type: SEMIVOA GC/MS	**Test / Method:** SW846 8270C	**Matrix Type:** Liquid	**Client Code:** CH2M, COMM, MOBA
Batch ID: 499181	**Sample Numbers:** See Below		

Potentially affected work order(s)(SDG): 154608,154700,154782

Application Issues:

Failed Recovery for MS/PS

Failed RPD for MS/MSD, or PS/PSD

Specification and Requirements Nonconformance Description:	NRG Disposition:
1. The MS failed recoveries for multiple target analytes.	1. The MSD confirmed the MS failures were a result of matrix interference. The data were reported.
2. The MS/MSD RPD values failed for multple target analytes.	2. The RPD failure was attributed to matrix interference. The data were reported.

Originator's Name:
Nathan Greene 10-FEB-06

Data Validator/Group Leader:
Daniel Beacham 10-FEB-06

Quality Review:

Director:

Appendix B

September 26, 2003

Mr. David Scaturo
South Carolina Department of Health and
Environmental Control
Bureau of Land and Waste Management
2600 Bull Street
Columbia, SC 29201

Re: AOC 710, Zone F, Charleston Naval Complex

Dear Mr. Scaturo:

Former Fuel Distribution System (FDS) Sites FDS 12, 13, and 14 were previously investigated as part of the Charleston Naval Complex (CNC) Zone G FDS contamination assessment process by the Navy (Ensafe, 1998). The FDS encompasses the entire fuel pipeline distribution system and transverses portions of Zones E, F, and G at the CNC. Because the contamination related to the FDS is largely petroleum-related, the FDS was transferred from the RCRA Corrective Action (CA) program to the South Carolina Underground Storage Tank program by agreement of the CNC BRAC Cleanup Team (BCT).

The findings of the FDS contamination assessment field investigations were presented in the FDS Contamination Assessment Report (CAR). The CAR indicated that that no fuel-related contamination was identified at FDS Sites 12, 13, and 14. These sites were recommended for No Further Action under the South Carolina petroleum investigation process. Excerpts from the FDS CAR related to these sites are attached.

However, because of the detection of arsenic in several groundwater samples at these FDS sites at concentrations greater than the Drinking Water Maximum Contaminant Level (MCL) off 50 ug/L, Sites 12, 13, 1nd 14 were transferred back to the RCRA Corrective Action program for further evaluation of arsenic in groundwater. These FDS sites became identified as AOC 710 for the RCRA program.

CH2M Jones has previously provided information in the form of memoranda to SCDHEC showing a strong correlation between arsenic's occurrence in groundwater samples at the CNC at concentrations greater than 50 ug/L with geochemical conditions indicative of iron-reducing conditions. (See x - insert memo name here). A review of the groundwater data for AOC 710 suggests that the occurrence of arsenic in groundwater samples at concentrations greater than 50 ug/L at AOC 710 is likely related to iron reducing conditions.

Table 1 attached with this letter provides a summary of arsenic and iron concentrations detected in groundwater samples at AOC 710. It can be seen that all samples containing arsenic above 50 ug/L also have iron concentrations greater than 1000 ug/L, which is the iron concentration that EPA uses as an indicator of iron reducing conditions. Also, the arsenic concentrations in soil samples at AOC 710 were within the range of arsenic

concentrations occurring in grid samples for Zone G. For these reasons, it does not appear that arsenic is a site-related contaminant in soil or groundwater at AOC 710 but is occurring at elevated concentrations in a limited number of groundwater samples due to natually occurring geochemical conditions at the site. For this reason, we believe that the NFA status proposed for these sites in the FDS CAR is the appropriate recommendation.

Provided that SCHDEC concurs with this conclusion, CH2M-Jones respectfully requests that the status for AOC 710 be changed to NFA in the CNC RCRA Permit. Please contact me if there are any issues related to AOC 710 that need further clarification.

Sincerely,

CH2M HILL

Dean Williamson, P.E.

cc: Jerry Stamps/SCDHEC, w/att
Dann Spariosu/USEPA, w/att
Tony Hunt/US Navy, w/att
Gary Foster/SCDHEC, w/att

References: Zone G Fuel Distribution System Contamination Assessment Report, NAVBASE Charleston, North Charleston, South Carolina, Ensafe 1998

Table 1
Arsenic and Iron Concentrations at AOC 710

	First sampling event		Second Sampling event	
Well	Arsenic	Iron	Arsenic	Iron
FDS12A	6.55	10800	22.95	19850
FDS12B	28	18500	49.3	32200
FDS13A	27	14700	210	37200
FDS13B	5.2	2100	16.8	9150
FDS13C	3.9	73,800	6	64500
FDS13D	ND	4640	16.7	8280
FDS13E	22.5	10700	29.9	19000
FDS14A	50.3	20100	21.8	15600
FDS14B	6.9	4240	22.5	25600
FDS14C	14	2830	24.9	4930
GDG002	7.8	28200	10	35700

All values in ug/L

MEMORANDUM

TO: Jerry M. Stamps, Engineer Associate
Corrective Action Section
Division of Waste Management
Bureau of Land and Waste Management

FROM: Jo Cherie Overcash, Hydrogeologist
RCRA Hydrogeology Section
Division of Hydrogeology
Bureau of Land and Waste Management

DATE: 30 April 2003

RE: Charleston Naval Complex (Navy)
SC0 170 022 560
Charleston County

AOC 710, Zone F
Correspondence from Williamson to Scaturo, dated April 9, 2003

As requested, the above referenced correspondence regarding area of concern (AOC) 710 has been conducted with respect to the requirements of R.61-79.264 Subpart F of the South Carolina Hazardous Waste Management Regulations (SCHWMRs); Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, modified April 26, 2002; the Environmental Protection Agency's (EPA) RCRA Facility Assessment guidance document dated October 1988; and the revised EPA Region IV Environmental Compliance Branch Standard Operating Procedures and Quality Assurance Manual (SOP/QAM) dated May 1996; the CNAV Final Comprehensive Sampling and Analysis Plan dated 30 August 1994, and CERCLA 120(h) as amended.

Of concern was the detection of arsenic in concentrations greater than the maximum contaminant level (MCL) of 50 micrograms per liter. The Division of Hydrogeology has reviewed the comparison of the arsenic and iron concentrations in groundwater at AOC 710 provided in the referenced correspondence. The Division agrees with the Navy in that the fluctuating concentrations of arsenic appear to be due to naturally occurring geochemical conditions at the site. Therefore, a groundwater no further action (NFA) decision is recommended for AOC 710.

If you have any questions or concerns, please contact me at 803.896.4019.

cc: Central File 050484

DD030324.jco

April 30, 2003

Ms. Amy Daniell
Caretaker Site Office
Charleston Naval Complex
CSO 1895 Avenue F
North Charleston, SC 29405

RE: Approval of NFA for AOC 710
NFA Request for AOC 710, Zone F
Charleston Naval Complex (CNC)
SC0 170 022 560

Dear Ms. Daniell:

The Corrective Action Engineering and the Hydrogeology Sections of the South Carolina Department of Health and Environmental Control (Department) have completed the review of the above referenced document, which was received on April 11, 2003. This review was based upon applicable State and Federal Regulations, and the CNC Hazardous Waste Permit, effective May 22, 2002.

The Department herby grants a No Further Action (NFA) determination for AOC 710. Please be advised that this determination is based upon currently available data. Additional investigation may be necessary in the future should information become available warranting such action.

If you have any questions or concerns, please contact Jerry Stamps at (803) 896-4285.

Sincerely,

Rodney Wingard, Interim-Acting Manager
Corrective Action Engineering Section
Division of Waste Management
Bureau of Land and Waste Management

cc: Tony Hunt, PE, SOUTHDIV
Rob Harrell, PE, SOUTHDIV
Dean Williamson, PE, CH2M-Jones
Jo Cherie Overcash, Hydrogeology
Rick Richter, Trident EQC District
Dann Spariosu, PhD, EPA Region 4
Gary Foster, PE, CH2M-Jones