096979

DEPARTMENT OF ENERGY
National Nuclear Security Administration
Los Alamos Site Office
Los Alamos, New Mexico 87544

JAN 18 2006

Mr. James P. Bearzi, Chief
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building I
Santa Fe, New Mexico 87505-6303

RE: Request For Information Regarding The Corrective Action Activities At Solid Waste Management Unit (SWMU) 73-002 (Incinerator Ash Removal) Los Alamos National Laboratory (LANL), EPA ID #NM0890010515 HWB-LANL-05-005

Dear Mr. Bearzi:

In response to your letter dated December 19, 2005, I am providing three sets of information that respond to your numbered requests as follows:

"1) The manifests and other shipping documents, certifications, and disposal facility receipts associated with wastes shipped from SWMU 73-002 (incinerator ash pile). This must include a detailed description of the contents of each shipment, quantities of materials shipped, and identification of the facility that took the final disposition, including the type of facility that took the final disposition, including the type of facility (e.g., municipal, commercial, industrial, subtitle C or D landfills), of each shipment."

The only debris shipments were sent to the Los Alamos County municipal landfill, and consisted of a mix of tin cans, automobile parts, miscellaneous metal parts (horse shoes, license plates, etc.), and bricks. Most of the smaller debris was placed in 50-gallon burlap/plastics bags to facilitate transport up the hill, and was sent to the landfill in the burlap/plastic bags. The larger/heavier debris was sent to the landfill in an un-bagged condition. Attachment A contains a Customer Report for the five shipments of trash sent to the Los Alamos County municipal landfill. These five shipments include Ticket No. 100212 (3.17 tons), 100225 (2.94 tons), 100640 (3.47 tons), 100766 (10.07 tons), and 100941 (3.26 tons).

"2) All analytical data on ash and associated debris and an explanation of how samples were prepared for analysis (e.g., a composite sample of a tin can, and how that composite was created)."

As identified in Section 3.2 of the Historical Investigation Report (HIR) for Consolidated Unit 73-002-99, three separate sampling events were conducted in 1996, 1997, and 1998. These samples were collected by Los Alamos National Laboratory (LANL) from the ash pile at depths from 6 inches to 7.5 feet. Fifty-one samples were collected from within the ash pile. The results are reported in Tables 1-6 of the HIR, and are also included in Attachment B. No further information with regard to sampling methodology is available.

In April 2005, Innovative Technical Solution Incorporated (ITSI) performed another sampling of the ash material. A sample grid was established on a 30-foot by 30-foot grid system down the slope. The extent of the ash was then evaluated by visual inspection, and its depth was estimated using a thin rigid rod pushed or driven into the ash perpendicular to the slope until refusal, or by hand auguring until encountering either native soil or bedrock. Samples were collected from locations where the ash appeared to be the thickest in each grid. Grid squares that contained more than 3 feet of ash were split, and sampled twice at different locations, within the grid, to maintain a sampling frequency of approximately 1 sample per 100 cubic yards of ash. Results for these ash samples are reported in Tables 1-6 of the HIR, and are also included in Attachment B.

In response to recent concerns about the nature of the debris that was sent to the Los Alamos (LA) County Landfill, samples were taken of material that was representative of both the tin cans and bricks that were part of these debris shipments. The tin cans selected for analyses were taken from a tin can pile not presently associated with the ash, and were hand-picked and bagged at the lowest level of the job site (Zone 1 of Attachment C), skylined up to the top of the mesa, dumped into a front loader, and then dumped into roll-off bins for off-site disposition. On December 13, 2005, a random sampling of 25 tin cans was hand picked from various locations around the perimeters of two roll-off bins pending disposition. The 25 cans were placed in a plastic bag, and then HSR-1 picked up the bag of cans, and scanned and smeared all 25 cans. Results of these scans and smears are reported in Attachment D. On December 20, 2005, a second 25-can composite sample, also representative of the debris that was sent to the LA County Landfill, was collected and placed in a plastic bag for Volatile Organic Analysis (VOA) and Semi-volatile Organic Compound (SVOC) analyses through the LANL Sample Management Organization (SMO). Once the second bag of cans was collected and bagged, SMO came out to the work site and took custody of the plastic bag full of rusted tin cans, and subsequently sampled them. Attachment E contains the VOA/VOC analyses of the tin cans (Client Sample ID: RE73-06-66447) as received by SMO.

A random, representative sampling of bricks was also collected. Like the tin cans, these bricks were located away from the ash, were handpicked at the lowest level of the job site, and were representative of the debris that was sent to the LA County Landfill. The bricks were moved via skyline up to the top of the mesa, dumped into a front loader, and then dumped into a roll-off bin awaiting disposition. Following instructions from SMO, on December 20, 2005, five bricks were randomly selected from various locations around the perimeter of the two roll-off bins. SMO took custody of the five bricks of which the analyses are reported in Attachment E as Client Sample ID: RE73-06-66448.

In recent vacuum excavations (December 12-20, 2005) completed during pilot testing of a vacuum system, a complete cross section of the ash pile was exposed. Photographs 78-82 (Attachment F) show that the ash material lies on a mixture of decomposed tin cans and ash, which in turn lies over decomposed tin cans only. This superposition of ash above tin cans implies that the tin cans were deposited before the ash, and were never associated with or commingled with the ash in the incinerator. Any association of the tin cans with ash would relate to their present spatial relationship. Likewise, the bricks lie below the tin cans, implying the bricks preceded the tin cans and were never associated with or commingled with the ash in the incinerator.

"3) All documents explaining the decision-making process that was used to determine the final disposition of the waste or waste streams from the site."

The ash material at the Ash Pile was determined to be a low-level radioactive waste per the analytical results (Attachment B) for samples taken in April 2005, since this characterization program was more extensive, both laterally and vertically, than prior samplings. It is our intent to send this low-level radioactive waste to Envirocare. Likewise, any debris in contact with or otherwise directly associated with the ash pile will also be sent to Envirocare. On the contrary, all future shipments of debris not associated with the ash is to be disposed of as "municipal/industrial waste at an approved industrial waste disposal facility".

In writing the Corrective Action Work Plan, we developed the language with the understanding that the words "not associated with the ash" meant not presently in contact with the ash. It was not our intent to imply not associated with the ash at any time. While we did not understand the double meaning of our own language, recent excavations have shown that the ash material overlies the tin cans, which tin turn overly the bricks, none of which were ever commingled and never entered the incinerator with the materials composing the ash.

We acknowledge that the work plan states that all debris not associated with the ash will be disposed of as "municipal/industrial waste at an approved industrial landfill." Because the results of the surveys performed by LANL's Radiological Control Technicians (RCTs) assigned to survey samples and personnel at the ash pile showed background levels of radiologic contamination, the Department of Energy's (DOE's) waste management contractor made an on-site decision to send the waste to a municipal landfill, rather than an industrial landfill. This action was not in accordance with the approved work plan, and was due to human error.

Should you have any questions, please contact me at 606-0397 or Bob Enz of my staff at 667-7640.

Sincerely,

FOR

John C. Ordaz, P.E.
Assistant Manager
Office of Environmental Stewardship

ES: 3BE-005

Attachments

cc w/attachments:
Darlene Goering, Environmental Scientist & Specialist
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505

cc w/attachments:
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Laurie King, Chief (6PD-N)
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U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue, Suite 1200
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B. Enz, OES, LASO
D. Gregory, OES, LASO
G. Turner, OES, LASO
S. Yanicak, DOE-LA-AO, LANL, MS-J993
K. Hargis, RRES/DO, LANL, MS-A316
N. Quintana, E/ER, LANL, MS- M992
D. McInroy, E/ER, LANL, MS- M992

ONCURRENCES	
RTG SYMBOL	
NAME	
DATE	
ES:dg	
BEnz	
01/12/06	
GTurner	
01/ /06	
JOrdaz	
01/18/06	

Attachment A

Los Alamos County Landfill

Customer Report

Transactions from 11/01/2005 through 11/30/2005
Inbound and Outbound Tickets
Third Party and Intercompany Customers
Recycle and Disposal Waste
Full Details

Ticket	Date	Truck	In / Out	Yards	Units	Tons	Estimated Tons	Tax	Disposal Amount	Amount
DURATEKFED - DURATEK FEDERAL SERVICES										
100212	11/11/05	DURA460831	I	0.00	0.00	3.17	0.00	$4.68	$93.52	$98.20
100225	11/11/05	DURATEK	I	0.00	0.00	2.94	0.00	$4.34	$86.73	$91.07
100640	11/14/05	DURA460831	I	0.00	0.00	3.47	0.00	$5.12	$102.37	$107.49
100766	11/16/05	DURATEK	I	0.00	0.00	10.07	0.00	$14.85	$297.07	$311.92
100941	11/14/05	DURATEK	I	0.00	0.00	3.26	0.00	$4.81	$96.17	$100.98
DURATEKFED - DURATEK FEDERAL SERVICES				0.00	0.00	22.91	0.00	$33.80	$675.86	$709.66
5 tickets and 5 transactions										
Report Grand Totals				0.00	0.00	22.91	0.00	$33.80	$675.86	$709.66
5 tickets and 5 transactions										

Los Alamos County Landfill
All Commercial customers must update
account information - call 662-8050
Next holiday landfill closure Nov 24th

Truck: DURA460831
Customer: DURATEKFED/DURATEK FEDERA

Ticket: 100212
Date: 11/11/2005
Time: 08:44:04 - 08:59:41
Scale
Gross: 37800LB SCGn Scale
Tare: 31460LB SCOut Scale
Net: 6340LB

Comments:

Origin	Materials & Services	Quantity	Unit	Rate	Amount
LOSA LOS ALAMOS COUNTY	100% of FORMT/COMM TRASH	3.17	Tons	$29.50/Ton	$93.52
				Total Taxes:	$6.42
				Total Amount:	$99.94

Driver: _____ Deputy Weighmaster: _____

s Alamos County Landfill
l Commercial customers must update
count information - call 662-8050
xt holiday landfill closure Nov 24th

Truck: DURATEK
istomer: DURATEKFED/DURATEK FEDERA

Ticket: 100225
Date: 11/11/2005
Time: 09:38:00 - 09:50:06
Scale
Gross: 37940LB SCAin Scale
Tare: 32060LB SCAut Scale
Net: 5880LB

Comment:

gin	Materials & Services	Quantity	Unit	Rate	Amount
SA/LOS ALAMOS COUNTY	100% of COMMT/COMM TRASH	2.94	Tons	$29.50/Ton	$86.73
				Total Taxes:	$4.34
				Total Amount:	$91.07

Driver: Jonathan

Deputy Weighmaster: DANIEL TAFOYA

Los Alamos County Landfill
All Commercial customers must update
account information - call 662-8050
Next holiday landfill closure Nov 24th

Truck: DURA460831
Customer: DURATEKFED/DURATEK FEDERA

Ticket: 100640
Date: 11/14/2005
Time: 15:02:13 - 15:11:4
Scale
Gross: 38460LB SCAn Scale
Tare: 31520LB SCAut Scale
Net: 6940LB

Comment:

Origin	Materials & Services	Quantity Unit	Rate	Amount
LOSA/LOS ALAMOS COUNTY	100% of COMMT/COMM TRASH	3.47 Tons	42[illegible].50/Ton	$102.37
			Total Taxes:	$5.12
			Total Amount:	$107.49

Driver: [illegible] Deputy Weighmaster: [illegible]

s Alamos County Landfill
l Commercial customers must update
count information - call 662-8050
xt holiday landfill closure Nov 24th

Ticket: 100766
Date: 11/16/2005
Time: 08:03:01 - 08:14:40
Scale
Gross: 51660LB SCIn Scale
Tare: 31520LB SCOut Scale
Net: 20140LB

Truck: DURATEK
ustomer: DURATEKFED/DURATEK FEDERA

Comment:

igin	Materials & Services	Quantity	Unit	Rate	Amount
SA/LOS ALAMOS COUNTY	100% of COMMT/COMM TRASH	10.07	Tons	$29.50/Ton	$297.07
				Total Taxes:	$14.85
				Total Amount:	$311.92

Driver: Jaadlucia

Deputy Weighmaster: JULIE JARAMILLO

LOS ALAMOS COUNTY 189182

$ _____

NAME ~~TAVE~~ (DuraTech.)

ADDRESS

CITY STATE ZIP

WASTE 3.T.

CODE M

LICENSE

11-14-05

GROSS

TARE

NET

11:30AM

6520 lbs

airport Relayer unit.

DRIVER

Attachment B

Table 1
Summary of Historical Incinerator Ash Laboratory Analytical Data for Inorganic Analytes

Location ID	Depth (ft)	Sample ID	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead
Soil Background Value				**29200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**	**21500**	**22.3**
Qbt 2,3,4 Background Value				**-**	**-**	**2.79**	**46**	**-**	**-**	**2200**	**-**	**-**	**-**	**-**	**-**
Fill Background Value				**29200**	**0.83**	**-**	**-**	**1.83**	**0.4**	**6120**	**-**	**-**	**-**	**21500**	**22.3**
73-02253	0.00-0.50	0173-96-0302	Soil	-	10 (J-)	-	-	-	0.52 (U)	-	-	-	-	-	-
73-02264	0.00-0.00	0173-96-0304	NA	8340	54.6 (U)	15	5290	0.29	5	12800	94.8	26	3690	6.4 (U)	4500
73-02260	0.00-0.70	0173-96-0305	NA	13400	40.1 (U)	11.4	883	0.21	12.6 (J+)	12500	76.5	22.5	999	160000	3020
73-02262	0.00-1.00	0173-96-0307	NA	4390	85.7 (U)	28.3	440	0.46	7.5 (U)	24300	90.2	37.8	543	431000	4290
73-02255	0.00-0.50	0173-96-0308	Soil	-	12 (J-)	-	-	-	0.62 (U)	-	-	-	-	-	48
73-02266	0.00-0.00	0173-96-0309	NA	18300	54.4 (U)	6.9	6280	0.43	15.1 (J+)	39800	106	30.3	843	174000	2170
73-02268	0.00-1.00	0173-96-0314	NA	15200	119 (J+)	8.9	3030	0.22	11.4	29600	103	18	6330	106000	9620
73-02270	0.00-0.00	0173-96-0316	NA	4320	41.3 (U)	9.7	689	0.22	4.5	8990	58.3	24.2	1360	265000	1380
73-02254	0.00-0.50	0173-96-0320	Soil	-	11 (J-)	-	-	-	0.56 (U)	-	-	-	-	-	-
73-02252	0.10-0.30	0173-96-0331	NA	7000	56 (J-)	90	650	2.8 (U)	7.4	3600	90	13	1800	170000	1300
73-02268	0.00-1.00	0173-96-0345	NA	19000	95.3	11.4	4090	0.4	13.3	33200	109	21.1	2420	117000	9780
73-02270	0.00-0.00	0173-96-0346	NA	4540	50.8	25.1	646	0.27	5	15900	29.5	11.6	588	115000	1210
73-02326	14.00-15.00	0173-96-0501	Fill	-	12	-	-	-	0.59 (U)	6500	-	-	-	-	-
73-02327	14.00-15.00	0173-96-0502	Fill	-	12	-	-	-	0.59 (U)	-	-	-	-	-	-
73-02268	1.20-2.20	0173-97-0001	NA	16900	32.5 (J-)	27	1490 (J-)	0.58	23.3 (J+)	45900	73.9	17.2	2760	52800	6790
73-02268	0.50-1.00	0173-97-0002	NA	18900	49 (J-)	76.5	2020 (J-)	0.65	24.9 (J+)	36200	74.3	16.7	2230	98600	3770
73-02261	0.50-1.00	0173-97-0003	NA	25300	16.8	19.8	2330 (J-)	0.65	11.2 (J+)	30300	133	22.7	1550	78400	2690
73-02261	3.50-4.50	0173-97-0004	NA	22900	29.6	20.1	1920 (J-)	0.51	42.9 (J+)	38700	90.5	17.7	4590	70600	4480
73-02268	1.20-2.20	0173-97-0008	NA	16700	159	20.4	1240	0.5	31.1	40600	71.8	15.6	2390	83500	13100
73-02451	0.50-1.00	0173-97-0312	Soil	-	-	-	-	-	-	-	-	-	-	-	-
73-02452	0.10-0.50	0173-97-0313	Soil	-	-	-	-	-	-	-	-	-	-	-	-
73-02454	0.10-0.50	0173-97-0318	Soil	-	-	-	-	-	12.2	-	-	-	-	-	168
73-02457	0.10-0.50	0173-97-0321	Soil	-	-	-	-	-	-	-	-	9.9	-	-	44.6
73-02459	0.10-0.50	0173-97-0323	Soil	-	-	-	-	-	-	-	-	-	-	-	28.8
73-02460	0.10-0.50	0173-97-0324	Soil	-	-	-	-	-	-	-	-	-	15.1	-	23.4
73-02461	0.10-0.50	0173-97-0325	Soil	-	-	-	325	-	0.81 (J)	-	-	-	40.2	-	82.2
73-02462	0.10-0.50	0173-97-0326	Soil	-	-	-	415	-	0.65 (J)	-	-	-	36.8	-	83.7
73-02463	3.50-4.00	0173-97-0333	Qbt 3	-	0.71 (U)	-	-	-	-	-	-	-	-	-	-
73-02463	3.50-4.00	0173-97-0337	Qbt 3	-	0.72	-	-	-	-	-	-	-	-	-	-
73-10099	7.50-8.50	RE73-99-0089	Fill	35000	-	-	-	1.9	-	-	-	-	-	25000	-
73-02207	5.50-6.00	RE73-99-0094	Qbt 3	-	-	3.2	80	-	-	17000	-	-	-	-	-
73-10106	4.80-5.30	RE73-99-0102	Fill	-	-	-	-	-	-	-	-	-	-	-	32
73-10096	4.30-4.80	RE73-99-0109	Qbt 3	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
All values in milligrams per kilogram (mg/kg)
Background Values from LANL 1998 (59730, Table 6.0-2, p.45)
Qbt = Bandelier Tuff
- = If analyzed, sample result is less than BV
U = The analyte was analyzed for but not detected
J = The analyte was positively identified, value is estimated
J+ = The analyte was identified, value is likely biased high
J- = The analyte was identified, value is likely biased low

Table 1
Summary of Historical Incinerator Ash Laboratory Analytical Data for Inorganic Analytes

Location ID	Depth (ft)	Sample ID	Media	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
Soil Background Value				**4610**	**6.71**	**0.1**	**15.4**	**3460**	**1.53**	**1**	**915**	**0.73**	**39.6**	**48.8**
Qbt 2,3,4 Background Value				**-**	**-**	**-**	**-**	**-**	**0.3**	**-**	**-**	**-**	**-**	**-**
Fill Background Value				**4610**	**-**	**0.1**	**-**	**-**	**-**	**1**	**-**	**0.73**	**-**	**48.8**
73-02253	0.00-0.50	0173-96-0302	Soil	-	-	-	-	-	-	2.1 (J-)	-	1.3	-	-
73-02264	0.00-0.00	0173-96-0304	NA	1290 (J)	1240	2 (J+)	131 (J+)	1150	1.7	213	842	0.41	6.4	3820
73-02260	0.00-0.70	0173-96-0305	NA	6010	1250	1.3 (J+)	165	1990	0.93	28.9	940	0.31	5.5	1470
73-02262	0.00-1.00	0173-96-0307	NA	964 (J)	1960	0.55 (J+)	119 (J+)	806	0.96	23.2	675	0.3	10	752
73-02255	0.00-0.50	0173-96-0308	Soil	-	-	0.12 (U)	-	-	-	2.5	-	1.5 (J-)	-	52 (J-)
73-02266	0.00-0.00	0173-96-0309	NA	2380	1500	1.4 (J+)	134 (J+)	2040	4.3	448	1760	0.4	12.6	2530
73-02268	0.00-1.00	0173-96-0314	NA	2440	1140	2.3 (J+)	94.1 (J+)	2660	1	156	2280	0.36	14.4	4260
73-02270	0.00-0.00	0173-96-0316	NA	1250	1190	1.1 (J+0	81.2 (J+)	640	0.99	41.8	674	0.37	4.8	1050
73-02254	0.00-0.50	0173-96-0320	Soil	-	-	0.11 (U)	-	-	-	2.2	-	1.4 (J-)	-	470 (J-)
73-02252	0.10-0.30	0173-96-0331	NA	1000	730	19	60	740	1.1	66	390	1.4	47	1900
73-02268	0.00-1.00	0173-96-0345	NA	3800	1340	0.07	104	3270	1.2	188	2480	0.48	15.9	4250
73-02270	0.00-0.00	0173-96-0346	NA	711 (J)	770	0.07	50.5	582	1.2	31.6	613	3.6	5.9	1590
73-02326	14.00-15.00	0173-96-0501	Fill	-	-	0.12	-	-	-	2.4	-	1.2	-	260
73-02327	14.00-15.00	0173-96-0502	Fill	-	-	0.12	-	-	-	2.4	-	1.2	-	61
73-02268	1.20-2.20	0173-97-0001	NA	4800	1330	0.41	79.9	4290	2	21.3	3930	7.4	13.2	4790
73-02268	0.50-1.00	0173-97-0002	NA	4020	1880	0.49	147	4610	2.1	55.3	3180	10.6	8.2	3860
73-02261	0.50-1.00	0173-97-0003	NA	3200	1660	1.2	236	3220	2.8	55.4	3530	9.3	12.5	4380
73-02261	3.50-4.50	0173-97-0004	NA	3960	1760	2.2	112	5040	1.9	19.6	7760	6.4	12.8	7170
73-02268	1.20-2.20	0173-97-0008	NA	4380	1530	0.44	101	4240	3.8	17.9	4190	8.6	7.8	3790
73-02451	0.50-1.00	0173-97-0312	Soil	-	-	-	-	-	-	-	-	0.87 (J)	-	-
73-02452	0.10-0.50	0173-97-0313	Soil	-	-	-	-	-	-	-	-	0.8 (J)	-	-
73-02454	0.10-0.50	0173-97-0318	Soil	-	-	-	-	-	-	-	-	-	-	-
73-02457	0.10-0.50	0173-97-0321	Soil	-	790	-	-	-	-	-	-	-	-	-
73-02459	0.10-0.50	0173-97-0323	Soil	-	-	0.14	-	-	-	1.1 (J)	-	-	-	-
73-02460	0.10-0.50	0173-97-0324	Soil	-	-	-	-	-	-	1.9 (J)	-	0.77 (J)	-	-
73-02461	0.10-0.50	0173-97-0325	Soil	-	-	0.24	-	-	-	8.8	-	-	-	-
73-02462	0.10-0.50	0173-97-0326	Soil	-	-	-	-	-	-	10.7	-	-	-	-
73-02463	3.50-4.00	0173-97-0333	Qbt 3	-	-	-	-	-	-	-	-	-	-	-
73-02463	3.50-4.00	0173-97-0337	Qbt 3	-	-	-	-	-	-	-	-	-	-	-
73-10099	7.50-8.50	RE73-99-0089	Fill	5500	-	0.14	-	-	-	-	-	-	-	62
73-02207	5.50-6.00	RE73-99-0094	Qbt 3	-	-	-	-	-	-	-	-	-	-	-
73-10106	4.80-5.30	RE73-99-0102	Fill	-	-	-	-	-	-	-	-	-	-	-
73-10096	4.30-4.80	RE73-99-0109	Qbt 3	-	-	-	-	-	0.41	-	-	-	-	-

Notes:
All values in milligrams per kilogram (mg/kg)
Background Values from LANL 1998 (59730, Table 6.0-2, p.45)
Qbt = Bandelier Tuff
- = If analyzed, sample result is less than BV
U = The analyte was analyzed for but not detected
J = The analyte was positively identified, value is estimated
J+ = The analyte was identified, value is likely biased high
J- = The analyte was identified, value is likely biased low

Table 2
Summary of 2005 Incinerator Ash Laboratory Analytical Data for Inorganic Analytes

Sample ID	Sample Date	Total Metals (mg/kg)								
		Silver	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Copper	Manganese
Previous Maximum Concentrations		*448*	*90*	*6280*		*42.9*	*37.8*	*133*	*6320*	*1960*
RE-73-05-58824	4/18/2005	17.5	42	1170	0.27	16.9	16.2	102	1620	1520
RE-73-05-58825	4/19/2005	190	29.6	5030	0.21	12.4	17.9	74	993	1270
RE-73-05-58826	4/19/2005	54.9	22.7	1490	0.34	19.7	13.8	77	1670	1230
RE-73-05-58827	4/19/2005	118	33.6	4150	0.37	9	11.3	61.3	1270	895
RE-73-05-58828	4/19/2005	37.2	39.3	1550	2.4	48.3	18.3	85.9	219000	21800
RE-73-05-58829	4/19/2005									
RE-73-05-58830	4/19/2005	54	26.1	1980	0.39	18.2	40.3	154	1330	2190
RE-73-05-58831	4/19/2005	49.5	19	1880	0.28	78.5	15.1	88.5	4130	1330
RE-73-05-58832	4/19/2005	35.6	20.5	1580	0.28	14.9	13.2	66.8	1930	1380
RE-73-05-58833	4/19/2005	119	26.8	2660	1.2	7.7	17.3	107	1190	1750
RE-73-05-58834	4/19/2005	56.9	26.3	1000	0.74	15.4	17.7	81.8	31500	2540
RE-73-05-58835	4/19/2005									
RE-73-05-58836	4/19/2005	21.2	66.4	643	0.11	4.1	41.9	104	815	2050
RE-73-05-58837	4/19/2005	15.4	133	575	0.089	2.8	49.7	94.4	490	2330
RE-73-05-58838	4/19/2005	95.7	19.5	2600	0.33	67.5	10.1	54.1	3260	859
RE-73-05-58839	4/19/2005	125	76	2870	0.33	16.4	14.8	68.7	3820	2810
RE-73-05-58840	4/19/2005	187	22.1	3490	0.2	16.5	14.4	85	1040	1050
RE-73-05-58841	4/19/2005									
RE-73-05-58842	4/20/2005	63	29.8	1790	0.33	17.7	16.4	85.9	2710	1580
RE-73-05-58843	4/20/2005	59.6	56.4	1710	0.26	16.8	16.8	72.2	2360	1770
RE-73-05-58844	4/20/2005	73.3	45.1	1990	0.25	5.9	16.5	67.7	536	974
RE-73-05-58845	4/20/2005	78.2	138	1940	0.25	6	40.2	116	1640	2010
RE-73-05-58846	4/20/2005	102	21	3330	0.17	7.2	18.6	66.5	2750	1130
RE-73-05-58879	4/20/2005									
Sample ID	**Sample Date**	**TCLP Metals (mg/L)**								
Previous Maximum Concentrations		-	-	*1.45*		*0.151*		*0.033*		
RE-73-05-58824	4/18/2005	-	-	0.884		0.18		-		
RE-73-05-58825	4/19/2005	-	-	1.65		0.0912		-		
RE-73-05-58826	4/19/2005	-	-	1.44		0.105		-		
RE-73-05-58827	4/19/2005	-	-	2.4		0.0406		-		
RE-73-05-58828	4/19/2005	-	-	1.43		0.133		-		
RE-73-05-58829	4/19/2005									
RE-73-05-58830	4/19/2005	-	-	3.84		1.73		-		
RE-73-05-58831	4/19/2005	-	-	1.18		0.134		-		
RE-73-05-58832	4/19/2005	-	-	1.32		0.0403		-		
RE-73-05-58833	4/19/2005	-	-	0.939		0.0205		-		
RE-73-05-58834	4/19/2005	-	-	1.06		0.0316		-		
RE-73-05-58835	4/19/2005									
RE-73-05-58836	4/19/2005	-	-	1.76		0.0117		-		
RE-73-05-58837	4/19/2005	-	-	1.62		0.0112		-		
RE-73-05-58838	4/19/2005	-	-	1.79		0.16		-		
RE-73-05-58839	4/19/2005	-	-	1.59		0.095		-		
RE-73-05-58840	4/19/2005	-	-	0.786		0.0739		-		
RE-73-05-58841	4/19/2005									
RE-73-05-58842	4/20/2005	-	-	2.33		0.0719		-		
RE-73-05-58843	4/20/2005	-	-	1.45		0.0632		-		
RE-73-05-58844	4/20/2005	-	-	1.97		0.0214		-		
RE-73-05-58845	4/20/2005	-	-	2.48		0.0184		-		
RE-73-05-58846	4/20/2005	-	-	1.7		0.0481		-		
RE-73-05-58879	4/20/2005									

Notes:
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
- = non detect
blank - not analyzed
TCLP = Toxicity Characteristic Leaching Procedure

Table 2
Summary of 2005 Incinerator Ash Laboratory Analytical Data for Inorganic Analytes

Sample ID	Sample Date	Total Metals (mg/kg)							
		Nickel	Lead	Antimony	Selenium	Thallium	Vanadium	Zinc	Mercury
Previous Maximum Concentrations		*236*	*13100*	*159*	*3.8*	*10.6*	*65*	*7170*	*19*
RE-73-05-58824	4/18/2005	203	3330	33.4	1.1	0.54	16.1	8220	0.62
RE-73-05-58825	4/19/2005	96.3	6650	52.1	1.6	-	12.8	3020	
RE-73-05-58826	4/19/2005	79.7	6700	48.4	1.1	-	15.3	4360	0.7
RE-73-05-58827	4/19/2005	43.7	2400	32.8	0.89	-	14.1	4450	0.9
RE-73-05-58828	4/19/2005	146	2460	27.8	0.92	-	24.7	11300	0.92
RE-73-05-58829	4/19/2005								
RE-73-05-58830	4/19/2005	633	6110	73.1	0.81	-	20.9	4880	1.6
RE-73-05-58831	4/19/2005	125	3950	27.8	1.7	-	17.2	43000	1.4
RE-73-05-58832	4/19/2005	131	2390	29.1	0.68	-	17.1	3940	1.7
RE-73-05-58833	4/19/2005	115	2500	29.8	0.57	-	12.9	3760	2.1
RE-73-05-58834	4/19/2005	295	8770	123	2	-	12.6	9830	1.6
RE-73-05-58835	4/19/2005								
RE-73-05-58836	4/19/2005	220	2840	36.2	0.45	-	3.8	939	0.71
RE-73-05-58837	4/19/2005	219	4310	24.7	0.64	-	4.1	823	0.28
RE-73-05-58838	4/19/2005	77	13700	116	1.2	-	14.5	4630	0.56
RE-73-05-58839	4/19/2005	98.6	33000	543	1.7	-	15.1	4370	1.2
RE-73-05-58840	4/19/2005	215	1950	19.9	0.94	-	14.1	5500	0.6
RE-73-05-58841	4/19/2005								
RE-73-05-58842	4/20/2005	234	3430	32.6	2.2	-	16.6	6460	0.79
RE-73-05-58843	4/20/2005	189	2220	27.3	1.6	0.31	15.3	6120	1.5
RE-73-05-58844	4/20/2005	115	2990	17.2	0.93	-	10.1	2040	0.7
RE-73-05-58845	4/20/2005	215	3690	64.7	0.55	-	8.6	1710	0.5
RE-73-05-58846	4/20/2005	792	1740	29.8	0.85	-	14.8	2190	0.33
RE-73-05-58879	4/20/2005								
Sample ID	**Sample Date**	**TCLP Metals (mg/L)**							
Previous Maximum Concentrations			*4.1*		-				
RE-73-05-58824	4/18/2005		3.14		-			37.4	-
RE-73-05-58825	4/19/2005		0.786		-			19.4	-
RE-73-05-58826	4/19/2005		2.39		-			39.1	-
RE-73-05-58827	4/19/2005		6.29		-			19.2	-
RE-73-05-58828	4/19/2005		2.56		-			40.5	-
RE-73-05-58829	4/19/2005								
RE-73-05-58830	4/19/2005		3.33		-			35.1	-
RE-73-05-58831	4/19/2005		4.37		-			42.4	-
RE-73-05-58832	4/19/2005		1.08		-			30.3	-
RE-73-05-58833	4/19/2005		0.633		-			24.9	-
RE-73-05-58834	4/19/2005		0.63		-			57.2	-
RE-73-05-58835	4/19/2005								
RE-73-05-58836	4/19/2005		0.792		-			5.1	-
RE-73-05-58837	4/19/2005		0.316		-			8.5	-
RE-73-05-58838	4/19/2005		2.47		-			36.7	-
RE-73-05-58839	4/19/2005		1.47		-			33.7	-
RE-73-05-58840	4/19/2005		1.44		-			67.5	-
RE-73-05-58841	4/19/2005								
RE-73-05-58842	4/20/2005		0.817		-			30.6	-
RE-73-05-58843	4/20/2005		0.779		-			42.5	-
RE-73-05-58844	4/20/2005		0.96		-			12.5	0.00037
RE-73-05-58845	4/20/2005		0.638		-			10.2	-
RE-73-05-58846	4/20/2005		1.33		-			22	-
RE-73-05-58879	4/20/2005								

Notes:
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
- = non detect
blank - not analyzed
TCLP = Toxicity Characteristic Leaching Procedure

Table 3
Summary of Historical Incinerator Ash Laboratory Analytical Data for Organic Analytes

Location ID	Depth (ft)	Sample ID	Media	Acenaphthene	Acetone	Anthracene	Aroclor-1254	Benzene	Benzo(a) - anthracene	Benzo(a)-pyrene	Benzo(b) - fluoranthene	Benzo(k) fluoranthene	Benzoic Acid
SSL Residential				4690	70400	23500	1.11	27	6.21	0.621	6.21	62.1	100000
73-02264	0.00-0.00	0173-96-0304	NA	-	-	-	0.046	-	-	-	-	-	-
73-02260	0.00-0.70	0173-96-0305	NA	-	-	-	0.066	-	-	-	-	-	-
73-02262	0.00-1.00	0173-96-0307	NA	-	-	-	-	-	-	-	-	-	-
73-02255	0.00-0.50	0173-96-0308	Soil	-	-	-	-	-	-	-	-	-	-
73-02266	0.00-0.00	0173-96-0309	NA	-	-	-	-	0.002 (J)	-	-	-	-	-
73-02268	0.00-1.00	0173-96-0314	NA	-	-	-	0.17	-	0.043 (J)	-	-	-	-
73-02270	0.00-0.00	0173-96-0316	NA	-	-	-	0.059	-	-	-	-	-	-
73-02252	0.10-0.30	0173-96-0331	NA	-	-	-	-	-	-	-	-	-	-
73-02268	0.00-1.00	0173-96-0345	NA	-	0.005	-	0.13	-	-	-	-	-	-
73-02270	0.00-0.00	0173-96-0346	NA	-	-	-	0.04	-	0.09	-	0.094	0.075	-
73-02326	14.00-15.00	0173-96-0501	Fill	-	0.025 (J-)	-	-	-	-	-	-	-	-
73-02327	14.00-15.00	0173-96-0502	Fill	-	-	-	-	-	-	-	-	-	-
73-02268	1.20-2.20	0173-97-0001	NA	-	-	-	-	-	-	-	-	-	-
73-02268	0.50-1.00	0173-97-0002	NA	-	-	-	-	-	-	-	-	-	-
73-02261	0.50-1.00	0173-97-0003	NA	-	-	-	-	-	-	-	-	-	-
73-02261	3.50-4.50	0173-97-0004	NA	-	-	-	-	-	-	-	-	-	-
73-02268	1.20-2.20	0173-97-0008	NA	-	0.097	-	-	-	-	-	-	-	-
73-02451	0.10-0.50	0173-97-0311	Soil	-	-	-	-	-	-	-	-	-	0.092 (J)
73-02457	0.10-0.50	0173-97-0321	Soil	-	-	-	-	-	-	-	-	-	0.043 (J)
73-02458	0.10-0.50	0173-97-0322	Soil	-	-	-	-	-	-	-	-	-	-
73-02459	0.10-0.50	0173-97-0323	Soil	-	-	-	-	-	-	-	-	-	-
73-02460	0.10-0.50	0173-97-0324	Soil	-	-	-	-	-	-	-	-	-	0.051 (J)
73-02461	0.10-0.50	0173-97-0325	Soil	0.035 (J)	-	0.061 (J)	-	-	0.1 (J)	0.11 (J)	0.21 (J)	-	-
73-02462	0.10-0.50	0173-97-0326	Soil	0.78	-	-	-	-	-	-	-	-	-
73-02465	3.20-3.70	0173-97-0327	NA	-	-	-	-	-	-	-	-	-	-
73-02464	7.00-7.50	0173-97-0336	NA	-	-	-	-	-	-	-	-	-	-
73-02463	3.50-4.00	0173-97-0337	Qbt 3	-	-	-	-	-	-	-	-	-	-
73-02464	7.00-7.50	0173-97-0338	NA	-	-	-	-	-	-	-	-	-	-
73-10098	7.50-7.75	RE73-99-0093	Fill	-	-	-	-	-	-	-	-	-	-
73-02207	5.50-6.00	RE73-99-0094	Qbt 3	-	-	-	-	-	-	-	-	-	-
73-10106	4.80-5.30	RE73-99-0102	Fill	-	-	-	-	-	-	-	-	-	-
73-10107	6.00-6.50	RE73-99-0104	Fill	-	-	-	-	-	-	-	-	-	-
73-10096	4.30-4.80	RE73-99-0109	Qbt 3	-	-	-	-	-	-	-	-	-	-

Notes:
All values in milligrams per kilogram (mg/kg)
- = if analyzed, sample result is less than Background Value
SSLs from NMED 2004 (85615)
J = The analyte was positively identified, value is estimated
J+ = The analyte was identified, value is likely biased high
J- = The analyte was identified, value is likely biased low

Table 3

Summary of Historical Incinerator Ash Laboratory Analytical Data for Organic Analytes

Location ID	Depth (ft)	Sample ID	Media	BHC[beta-]	Bis(2-ethylhexyl) phthalate	Chlordane [alpha-]	Chlordane [gamma-]	Chrysene	DDD[4,4'-]	DDE[4,4'-]	DDT[4,4'-]	Dichloro - benzene[1,2-]	Dichloro - benzene[1,3-]
SSL Residential				0.902	347	16.2	16.2	621	24.4	17.2	17.2	116	70.4
73-02264	0.00-0.00	0173-96-0304	NA	0.0026	-	-	-	-	-	0.032	0.024	-	-
73-02260	0.00-0.70	0173-96-0305	NA	-	-	-	-	-	-	0.0057	-	-	-
73-02262	0.00-1.00	0173-96-0307	NA	-	-	-	-	-	-	-	-	-	-
73-02255	0.00-0.50	0173-96-0308	Soil	-	-	0.0035	-	-	-	0.029	0.034	-	-
73-02266	0.00-0.00	0173-96-0309	NA	-	-	-	-	-	-	0.019	0.02	-	-
73-02268	0.00-1.00	0173-96-0314	NA	-	-	-	-	0.047 (J)	-	0.03	0.022	-	-
73-02270	0.00-0.00	0173-96-0316	NA	-	-	-	-	-	-	0.0072	0.006	-	-
73-02252	0.10-0.30	0173-96-0331	NA	-	-	-	-	-	1.3 (J)	0.31	3.9	-	-
73-02268	0.00-1.00	0173-96-0345	NA	-	-	-	-	-	-	0.027	0.023	-	-
73-02270	0.00-0.00	0173-96-0346	NA	-	-	-	-	0.11	-	0.005	-	-	-
73-02326	14.00-15.00	0173-96-0501	Fill	-	-	0.028	0.038	-	0.31	0.089	0.11	-	-
73-02327	14.00-15.00	0173-96-0502	Fill	-	-	-	-	-	0.042	0.01	0.021	-	-
73-02268	1.20-2.20	0173-97-0001	NA	-	-	-	-	-	-	-	-	-	-
73-02268	0.50-1.00	0173-97-0002	NA	-	-	-	-	-	-	-	-	-	-
73-02261	0.50-1.00	0173-97-0003	NA	-	-	-	-	-	-	-	-	-	-
73-02261	3.50-4.50	0173-97-0004	NA	-	0.19 (J)	-	-	-	-	-	-	0.12 (J)	0.12 (J)
73-02268	1.20-2.20	0173-97-0008	NA	-	0.12	-	-	-	-	0.035	0.019	-	-
73-02451	0.10-0.50	0173-97-0311	Soil	-	-	-	-	-	-	-	-	-	-
73-02457	0.10-0.50	0173-97-0321	Soil	-	-	-	-	-	-	-	-	-	-
73-02458	0.10-0.50	0173-97-0322	Soil	-	-	-	-	-	-	-	-	-	-
73-02459	0.10-0.50	0173-97-0323	Soil	-	-	-	-	-	-	-	-	-	-
73-02460	0.10-0.50	0173-97-0324	Soil	-	-	-	-	-	-	-	-	-	-
73-02461	0.10-0.50	0173-97-0325	Soil	-	0.05 (J)	-	-	0.11	-	-	-	-	-
73-02462	0.10-0.50	0173-97-0326	Soil	-	-	-	-	-	-	-	-	-	-
73-02465	3.20-3.70	0173-97-0327	NA	-	-	-	-	-	-	-	-	-	-
73-02464	7.00-7.50	0173-97-0336	NA	-	-	-	-	-	-	-	-	-	-
73-02463	3.50-4.00	0173-97-0337	Qbt 3	-	-	-	-	-	-	-	-	-	-
73-02464	7.00-7.50	0173-97-0338	NA	-	-	-	-	-	-	-	-	-	-
73-10098	7.50-7.75	RE73-99-0093	Fill	-	-	-	-	-	-	0.0043	-	-	-
73-02207	5.50-6.00	RE73-99-0094	Qbt 3	-	-	-	-	-	-	-	0.0076	-	-
73-10106	4.80-5.30	RE73-99-0102	Fill	-	-	-	-	-	0.006	-	0.19	-	-
73-10107	6.00-6.50	RE73-99-0104	Fill	-	-	-	-	-	-	0.0046	0.03	-	-
73-10096	4.30-4.80	RE73-99-0109	Qbt 3	-	-	-	-	-	-	-	0.0041	-	-

Notes:

All values in milligrams per kilogram (mg/kg)

- = if analyzed, sample result is less than Background Value

SSLs from NMED 2004 (85615)

J = The analyte was positively identified, value is estimated

J+ = The analyte was identified, value is likely biased high

J- = The analyte was identified, value is likely biased low

Table 3
Summary of Historical Incinerator Ash Laboratory Analytical Data for Organic Analytes

Location ID	Depth (ft)	Sample ID	Media	Dichloro-benzene[1,4-]	Di-n-butyl phthalate	Endosulfan I	Fluoranthene	Heptachlorodi benzodioxin [1,2,3,4,6,7,8-]	Heptachlorodi benzodioxins (Total)	Heptachlorodi benzofuran [1,2,3,4,6,7,8-]	Heptachlorodi benzofuran [1,2,3,4,7,8,9-]	Heptachlorodi benzofurans (Total)	Hexachlorodi benzodioxin [1,2,3,4,7,8-]
SSL Residential				36	6000	360	2250	-	-	-	-	-	-
73-02264	0.00-0.00	0173-96-0304	NA	-	-	-	-	-	-	-	-	-	-
73-02260	0.00-0.70	0173-96-0305	NA	-	-	-	-	-	-	-	-	-	-
73-02262	0.00-1.00	0173-96-0307	NA	-	-	-	-	-	-	-	-	-	-
73-02255	0.00-0.50	0173-96-0308	Soil	-	-	-	-	-	-	-	-	-	-
73-02266	0.00-0.00	0173-96-0309	NA	-	-	-	-	-	-	-	-	-	-
73-02268	0.00-1.00	0173-96-0314	NA	-	-	-	0.078 (J)	-	-	-	-	-	-
73-02270	0.00-0.00	0173-96-0316	NA	0.01	-	-	-	-	-	-	-	-	-
73-02252	0.10-0.30	0173-96-0331	NA	-	-	-	-	-	-	-	-	-	-
73-02268	0.00-1.00	0173-96-0345	NA	-	-	-	-	-	-	-	-	-	-
73-02270	0.00-0.00	0173-96-0346	NA	-	-	-	-	-	-	-	-	-	-
73-02326	14.00-15.00	0173-96-0501	Fill	-	-	-	-	-	-	-	-	-	-
73-02327	14.00-15.00	0173-96-0502	Fill	-	-	-	-	-	-	-	-	-	-
73-02268	1.20-2.20	0173-97-0001	NA	-	-	-	-	1.80E-10	0.33	0.098	0.0053	0.17	0.0062
73-02268	0.50-1.00	0173-97-0002	NA	-	-	-	-	1.80E-10	0.33	0.066	0.0064	0.11	0.0059
73-02261	0.50-1.00	0173-97-0003	NA	-	-	-	-	1.10E-09	1.8	0.13	0.011	0.25	0.014
73-02261	3.50-4.50	0173-97-0004	NA	-	-	0.0023	-	9.00E-10	1.6	0.35	0.0088	0.61	0.026
73-02268	1.20-2.20	0173-97-0008	NA	-	-	-	-	2.80E-10	0.51	0.071	0.004	0.15	0.0063
73-02451	0.10-0.50	0173-97-0311	Soil	-	-	-	-	1.00E-12		0.00065(J)	-	-	-
73-02457	0.10-0.50	0173-97-0321	Soil	-	-	-	-	3.50E-12	0.0069 (J)	0.0022 (J)	-	0.0041	-
73-02458	0.10-0.50	0173-97-0322	Soil	-	-	-	-	5.00E-12	0.0099(J)	0.0016 (J)	-	0.0029	-
73-02459	0.10-0.50	0173-97-0323	Soil	-	0.19 (J)	-	-	-	-	-	-	-	-
73-02460	0.10-0.50	0173-97-0324	Soil	-	-	-	-	1.40E-11	0.026	0.0033	-	0.0073	0.00027
73-02461	0.10-0.50	0173-97-0325	Soil	-	0.077 (J)	-	0.24 (J)	1.00E-10	0.17	0.044	0.0043 (J)	0.12	0.0033
73-02462	0.10-0.50	0173-97-0326	Soil	-	-	-	-	-	-	-	-	-	-
73-02465	3.20-3.70	0173-97-0327	NA	-	-	-	-	5.90E-11	0.11	0.011	0.00075 (J)	0.024	0.00067
73-02464	7.00-7.50	0173-97-0336	NA	-	-	-	-	4.90E-11	0.094 (J)	0.28	0.0099 (J)	0.34	0.016
73-02463	3.50-4.00	0173-97-0337	Qbt 3	-	-	-	-	2.80E-13	0.00043	0.00014	-	0.00014	-
73-02464	7.00-7.50	0173-97-0338	NA	-	-	-	-	7.60E-11	0.15	0.4	0.014	0.48	0.022
73-10098	7.50-7.75	RE73-99-0093	Fill	-	-	-	-	-	-	-	-	-	-
73-02207	5.50-6.00	RE73-99-0094	Qbt 3	-	-	-	-	-	-	-	-	-	-
73-10106	4.80-5.30	RE73-99-0102	Fill	-	-	-	-	-	-	-	-	-	-
73-10107	6.00-6.50	RE73-99-0104	Fill	-	-	-	-	-	-	-	-	-	-
73-10096	4.30-4.80	RE73-99-0109	Qbt 3	-	-	-	-	-	-	-	-	-	-

Notes:
All values in milligrams per kilogram (mg/kg)
- = if analyzed, sample result is less than Background Value
SSLs from NMED 2004 (85615)
J = The analyte was positively identified, value is estimated
J+ = The analyte was identified, value is likely biased high
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Table 3
Summary of Historical Incinerator Ash Laboratory Analytical Data for Organic Analytes

Location ID	Depth (ft)	Sample ID	Media	Hexachlorodibenzodioxin [1,2,3,6,7,8-]	Hexachlorodibenzodioxin [1,2,3,7,8,9-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran [1,2,3,4,7,8-]	Hexachlorodibenzofuran [1,2,3,6,7,8-]	Hexachlorodibenzofuran [1,2,3,7,8,9-]	Hexachlorodibenzofuran [2,3,4,6,7,8-]	Hexachlorodibenzofurans (Total)	Isopropyl toluene [4-]	Methylene Chloride
SSL Residential				-	-	-	-	-	-	-	-	700	165
73-02264	0.00-0.00	0173-96-0304	NA	-	-	-	-	-	-	-	-	-	0.043
73-02260	0.00-0.70	0173-96-0305	NA	-	-	-	-	-	-	-	-	-	0.034
73-02262	0.00-1.00	0173-96-0307	NA	-	-	-	-	-	-	-	-	-	0.032
73-02255	0.00-0.50	0173-96-0308	Soil	-	-	-	-	-	-	-	-	-	-
73-02266	0.00-0.00	0173-96-0309	NA	-	-	-	-	-	-	-	-	-	0.036
73-02268	0.00-1.00	0173-96-0314	NA	-	-	-	-	-	-	-	-	-	0.1
73-02270	0.00-0.00	0173-96-0316	NA	-	-	-	-	-	-	-	-	-	0.059
73-02252	0.10-0.30	0173-96-0331	NA	-	-	-	-	-	-	-	-	0.013 (J+0	-
73-02268	0.00-1.00	0173-96-0345	NA	-	-	-	-	-	-	-	-	-	0.069
73-02270	0.00-0.00	0173-96-0346	NA	-	-	-	-	-	-	-	-	-	0.08
73-02326	14.00-15.00	0173-96-0501	Fill	-	-	-	-	-	-	-	-	-	-
73-02327	14.00-15.00	0173-96-0502	Fill	-	-	-	-	-	-	-	-	-	-
73-02268	1.20-2.20	0173-97-0001	NA	0.024	0.022	0.18	0.012	0.011	-	0.012	0.12	0.032 (J)	-
73-02268	0.50-1.00	0173-97-0002	NA	0.021	0.025	0.14	0.025	0.017	-	0.018	0.15	-	-
73-02261	0.50-1.00	0173-97-0003	NA	0.056	0.065	0.46	0.023	0.021	-	0.027	0.21	-	-
73-02261	3.50-4.50	0173-97-0004	NA	0.14	0.12	1	0.046	0.049	-	0.052	0.5	-	-
73-02268	1.20-2.20	0173-97-0008	NA	0.037	0.037	0.29	0.015	0.01	-	0.0098	0.1	-	-
73-02451	0.10-0.50	0173-97-0311	Soil	-	-	-	-	-	-	-	-	-	-
73-02457	0.10-0.50	0173-97-0321	Soil	-	-	0.0023 (J)	0.00066 (J)	0.00041	-	0.00032 (J)	-	-	-
73-02458	0.10-0.50	0173-97-0322	Soil	0.00034 (J)	-	0.0027 (J)	-	-	-	-	0.0013 (J)	-	-
73-02459	0.10-0.50	0173-97-0323	Soil	-	-	-	-	-	-	-	-	-	-
73-02460	0.10-0.50	0173-97-0324	Soil	0.00081 (J)	0.00085 (J)	0.0068 (J)	0.00067 (J)	0.0021	-	-	0.028	-	-
73-02461	0.10-0.50	0173-97-0325	Soil	0.0068	0.0073	0.052	0.0059	0.022	-	0.0085	0.32	-	-
73-02462	0.10-0.50	0173-97-0326	Soil	-	-	-	-	-	-	-	-	-	-
73-02465	3.20-3.70	0173-97-0327	NA	0.0037 (J)	0.0033	0.03	0.0021 (J)	0.0019	-	-	0.029	-	-
73-02464	7.00-7.50	0173-97-0336	NA	0.02 (J)	0.041 (J)	0.27	0.43	0.14	0.0061	0.14	1.4	-	-
73-02463	3.50-4.00	0173-97-0337	Qbt 3	-	-	-	-	-	-	-	-	-	-
73-02464	7.00-7.50	0173-97-0338	NA	0.029	0.063	0.42	0.67	0.23	0.01	0.2	2.1	-	-
73-10098	7.50-7.75	RE73-99-0093	Fill	-	-	-	-	-	-	-	-	-	-
73-02207	5.50-6.00	RE73-99-0094	Qbt 3	-	-	-	-	-	-	-	-	-	-
73-10106	4.80-5.30	RE73-99-0102	Fill	-	-	-	-	-	-	-	-	-	-
73-10107	6.00-6.50	RE73-99-0104	Fill	-	-	-	-	-	-	-	-	-	-
73-10096	4.30-4.80	RE73-99-0109	Qbt 3	-	-	-	-	-	-	-	-	0.00076	-

Notes:
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Table 3
Summary of Historical Incinerator Ash Laboratory Analytical Data for Organic Analytes

Location ID	Depth (ft)	Sample ID	Media	Naphthalene	Octachlorodi benzodioxin [1,2,3,4,6,7,8,9-]	Octachlorodi benzofuran [1,2,3,4,6,7,8,9-]	Pentachlorodi benzodioxin [1,2,3,7,8-]	Pentachlorodi benzodioxins (Total)	Pentachlorodi benzofuran [1,2,3,7,8-]	Pentachlorodi benzofuran [2,3,4,7,8-]	Pentachlorodi benzofurans (Totals)	Phenanthrene	Pyrene
SSL Residential				71.9	-	-	-	-	-	-	-	1800	2300
73-02264	0.00-0.00	0173-96-0304	NA	-	-	-	-	-	-	-	-	-	-
73-02260	0.00-0.70	0173-96-0305	NA	-	-	-	-	-	-	-	-	-	-
73-02262	0.00-1.00	0173-96-0307	NA	-	-	-	-	-	-	-	-	-	-
73-02255	0.00-0.50	0173-96-0308	Soil	-	-	-	-	-	-	-	-	-	-
73-02266	0.00-0.00	0173-96-0309	NA	-	-	-	-	-	-	-	-	-	-
73-02268	0.00-1.00	0173-96-0314	NA	-	-	-	-	-	-	-	-	-	0.076 (J)
73-02270	0.00-0.00	0173-96-0316	NA	-	-	-	-	-	-	-	-	-	-
73-02252	0.10-0.30	0173-96-0331	NA	-	-	-	-	-	-	-	-	-	-
73-02268	0.00-1.00	0173-96-0345	NA	-	-	-	-	-	-	-	-	-	-
73-02270	0.00-0.00	0173-96-0346	NA	-	-	-	-	-	-	-	-	-	0.049
73-02326	14.00-15.00	0173-96-0501	Fill	-	-	-	-	-	-	-	-	-	-
73-02327	14.00-15.00	0173-96-0502	Fill	-	-	-	-	-	-	-	-	-	-
73-02268	1.20-2.20	0173-97-0001	NA	-	0.64	0.048	0.0082	0.1	0.014	0.021	0.24	-	-
73-02268	0.50-1.00	0173-97-0002	NA	-	0.68	0.031	0.0084	0.071	0.023	0.035	0.43	-	-
73-02261	0.50-1.00	0173-97-0003	NA	-	4.8	0.1	0.016	0.25	0.019	0.032	0.4	-	-
73-02261	3.50-4.50	0173-97-0004	NA	-	3.2	0.15	0.049	0.58	0.11	0.15	1.9	0.25 (J)	-
73-02268	1.20-2.20	0173-97-0008	NA	-	1	0.043	0.013	0.15	0.015	0.02	0.27	-	-
73-02451	0.10-0.50	0173-97-0311	Soil	-	-	0.00071 (J)	-	-	-	-	-	-	-
73-02457	0.10-0.50	0173-97-0321	Soil	-	0.02	0.0024 (J)	-	0.00066 (J)		0.00068 (J)	0.0094	-	-
73-02458	0.10-0.50	0173-97-0322	Soil	-	0.037	0.0025 (J)	-	-	-	-	0.0019 (J)	-	-
73-02459	0.10-0.50	0173-97-0323	Soil	-	-	-	-	-	-	-	-	-	-
73-02460	0.10-0.50	0173-97-0324	Soil	-	0.082	0.005 (J)	0.00037 (J)	0.0016 (J)	-	0.00045 (J)	0.017 (J)	-	-
73-02461	0.10-0.50	0173-97-0325	Soil	0.041 (J)	0.61	0.055	0.0026 (J)	0.017 (J)	0.0022 (J)	0.0025 (J)	0.089	0.21 (J)	0.32 (J)
73-02462	0.10-0.50	0173-97-0326	Soil	-	-	-	-	-	-	-	-	-	-
73-02465	3.20-3.70	0173-97-0327	NA	-	0.29	-	0.00095 (J)	0.014 (J)	0.00066 (J)	0.00091 (J)	0.019 (J)	-	-
73-02464	7.00-7.50	0173-97-0336	NA	-	-	-	0.06	0.56	0.43	0.54	6.3	-	-
73-02463	3.50-4.00	0173-97-0337	Qbt 3	-	-	-	-	-	-	-	-	-	-
73-02464	7.00-7.50	0173-97-0338	NA	-	-	-	0.096	0.87	0.75	0.84	9.6	-	-
73-10098	7.50-7.75	RE73-99-0093	Fill	-	-	-	-	-	-	-	-	-	-
73-02207	5.50-6.00	RE73-99-0094	Qbt 3	-	-	-	-	-	-	-	-	-	-
73-10106	4.80-5.30	RE73-99-0102	Fill	-	-	-	-	-	-	-	-	-	-
73-10107	6.00-6.50	RE73-99-0104	Fill	-	-	-	-	-	-	-	-	-	-
73-10096	4.30-4.80	RE73-99-0109	Qbt 3	-	-	-	-	-	-	-	-	-	-

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Table 3
Summary of Historical Incinerator Ash Laboratory Analytical Data for Organic Analytes

Location ID	Depth (ft)	Sample ID	Media	Tetrachlorodi benzodioxin [2,3,7,8-]	Tetrachlorodi benzodioxins (Total)	Tetrachlorodi benzofuran [2,3,7,8-]	Tetrachlorodi benzofurans (Total)	Tetrachloro ethene	Toluene	Trichloro ethane [1,1,1]	Trichloro ethene	Trichlorofluoro methane	Trimethyl benzene [1,3,5-]
SSL Residential				-	-	-	-	9.83	248	-	0.648	528	22.3
73-02264	0.00-0.00	0173-96-0304	NA	-	-	-	-	0.003 (J)	-	0.004 (J)	-	0.013	-
73-02260	0.00-0.70	0173-96-0305	NA	-	-	-	-	0.004 (J)	-	0.006	0.006	0.013	-
73-02262	0.00-1.00	0173-96-0307	NA	-	-	-	-	0.002 (J)	-	0.002 (J)	0.001 (J)	0.005	-
73-02255	0.00-0.50	0173-96-0308	Soil	-	-	-	-	-	-	-	-	-	-
73-02266	0.00-0.00	0173-96-0309	NA	-	-	-	-	0.002 (J)	-	0.004 (J)	0.007	0.009	-
73-02268	0.00-1.00	0173-96-0314	NA	-	-	-	-	0.005 (J)	-	0.007	0.002 (J)	0.016	-
73-02270	0.00-0.00	0173-96-0316	NA	-	-	-	-	0.008	-	0.003 (J)	0.004(J)	0.006 (J)	-
73-02252	0.10-0.30	0173-96-0331	NA	-	-	-	-	-	-	-	-	-	0.01
73-02268	0.00-1.00	0173-96-0345	NA	-	-	-	-	0.007	-	0.009	0.003	0.016	-
73-02270	0.00-0.00	0173-96-0346	NA	-	-	-	-	0.009	0.001	0.006	0.005	0.007	-
73-02326	14.00-15.00	0173-96-0501	Fill	-	-	-	-	-	-	-	-	-	-
73-02327	14.00-15.00	0173-96-0502	Fill	-	-	-	-	-	-	-	-	-	-
73-02268	1.20-2.20	0173-97-0001	NA	0.0033	0.1	0.029	0.51	-	-	-	-	-	-
73-02268	0.50-1.00	0173-97-0002	NA	0.0045	0.12	0.042	0.79	-	-	-	-	-	-
73-02261	0.50-1.00	0173-97-0003	NA	0.0064	0.27	0.032	0.57	-	-	-	-	-	-
73-02261	3.50-4.50	0173-97-0004	NA	0.037	0.71	0.35	5.4	-	-	-	-	-	-
73-02268	1.20-2.20	0173-97-0008	NA	0.0066	0.11	0.031	0.51	-	-	-	-	-	-
73-02451	0.10-0.50	0173-97-0311	Soil	-	-	-	-	-	-	-	-	-	-
73-02457	0.10-0.50	0173-97-0321	Soil	-	0.0011 (J)	0.0031	0.026	-	-	-	-	-	-
73-02458	0.10-0.50	0173-97-0322	Soil	-	0.00081 (J)	0.00085 (J)	0.0045 (J)	-	-	-	-	-	-
73-02459	0.10-0.50	0173-97-0323	Soil	-	-	-		-	-	-	-	-	-
73-02460	0.10-0.50	0173-97-0324	Soil	-	0.00073 (J)	0.00097 (J)	0.017	-	-	-	-	-	-
73-02461	0.10-0.50	0173-97-0325	Soil	0.00069 (J)	0.012	0.0062	0.093	-	-	-	-	-	-
73-02462	0.10-0.50	0173-97-0326	Soil	-	-	-		-	-	-	-	-	-
73-02465	3.20-3.70	0173-97-0327	NA	-	0.0084	0.0026	0.025	-	-	-	-	-	-
73-02464	7.00-7.50	0173-97-0336	NA	0.096	1.5	4.5	28	-	-	-	-	-	-
73-02463	3.50-4.00	0173-97-0337	Qbt 3	-	-	0.0003	0.00068	-	-	-	-	-	-
73-02464	7.00-7.50	0173-97-0338	NA	0.14	2.1	6.7	42	-	-	-	-	-	-
73-10098	7.50-7.75	RE73-99-0093	Fill	-	-	-	-	-	-	-	-	-	-
73-02207	5.50-6.00	RE73-99-0094	Qbt 3	-	-	-	-	-	0.00026 (J)	-	-	-	-
73-10106	4.80-5.30	RE73-99-0102	Fill	-	-	-	-	-	-	-	-	-	-
73-10107	6.00-6.50	RE73-99-0104	Fill	-	-	-	-	-	-	-	-	-	-
73-10096	4.30-4.80	RE73-99-0109	Qbt 3	-	-	-	-	-	-	-	-	-	-

Notes:
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Table 4

Summary of 2005 Incinerator Ash Laboratory Analytical Data for Organic Analytes

Sample ID:	RE73-05-58829	RE73-05-58835	RE73-05-58841	RE73-05-58878	RE73-05-58879
Matrix:	Ash	Ash	Ash	Ash	Ash
Sample Date:	4/19/2005	4/19/2005	4/19/2005	4/20/2005	4/20/2005
Units:	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Volatile Organic Compounds					
Bromomethane	3.5	4.7	2.4	-	3
Acetone	ND	ND	ND	26	-
Methylene Chloride	11	12	6.6	14	31
Carbon Disulfide	-	-	-	-	-
2-Butanone (MEK)	-	-	-	3.9	-
Chloroform	-	-	-	-	-
Trichloroethene	0.71	-	-	-	-
Bromodichloromethane	-	-	-	-	-
Toluene	-	0.99	-	-	-
Chlorodibromomethane	-	-	-	-	-
Xylenes (total)	-	-		-	3.7
1,2,4-Trimethylbenzene	0.79	-	-	-	-
p-Isopropyltoluene	17	-	1.3	-	-
1,3-Dichlorobenzene	-	2.1	-	-	-
1,4-Dichlorobenzene	-	-	-	-	2.5
1,2-Dichlorobenzene	-	2.6	-	-	-
Semi-Volatile Organic Compounds					
1,3-Dichlorobenzene	160	-	-		-
1,4-Dichlorobenzene	170	-	-		-
Benzyl alcohol	-	-	-		-
1,2-Dichlorobenzene	150	-	-		-
Nitrobenzene	210	-	-		-
2-Nitrophenol	180	-	-		-
Benzoic Acid	830	490	-		-
1,2,4-Trichlorobenzene	180	-	-		-
Naphthalene	130	-	-		-
Hexachlorobutadiene	140	-	-		-
2-Methylnaphthalene	120	-	-		-
2,4,6-Trichlorophenol	130	-	-		-
2-Chloronaphthalene	140	-	-		-
Acenaphthylene	150	-	-		-
Acenaphthene	130	-	-		-
Dibenz(a,h)anthracene	86	-	-		-
Dibenzofuran	140	-	-		-
Fluorene	150	-	-		-
4-Chlorophenyl phenyl ether	190	-	-		-
N-Nitrosodiphenylamine	190	-	-		-
Pyrene	470	110	320		-
4-Bromophenyl phenyl ether	190	-	-		-
Hexachlorobenzene	450	110	-		-
Pentachlorophenol	180	-	-		-
Phenanthrene	150	-	200		-
Anthracene	140	-	-		-
Fluoranthene	140	-	300		-
Benzo(a)anthracene	150	-	150		-
Chrysene	160	-	150		-
Bis(2-ethylhexyl)phthalate	88	97	98		330
Benzo(b)fluoranthene	180	-	120		-
Benzo(k)fluoranthene	150	-	120		-
Benzo(a)pyrene	540	-	110		-
Indeno(1,2,3-cd)pyrene	530	-	-		-
Benzo(ghi)perylene	130	340	-		-
Di-n-butyl phthalate	500	-	-		-
Benzo(ghi)perylene	420	-	-		-
PCBs					
Aroclor 1254	-	58	96		380
Dioins/Frans					
TEQ	0.0612	0.0742	0.0768		0.0353

Notes:
ug/kg = micrograms per kilogram
ug/L = micrograms per liter
NA = not available
- = not detected
blank = not analyzed/not sampled
TCLP = Toxicity Characteristic Leaching Procedure

Table 4
Summary of 2005 Incinerator Ash Laboratory Analytical Data for Organic Analytes

Sample ID:	RE73-05-58923	RE73-05-58924	TCLP	
Matrix:	Water	Water		
Sample Date:	4/20/2005	4/20/2005	Results	Pass/Fail
Units:	(ug/L)	(ug/L)	(ug/L)	
Volatile Organic Compounds				
Bromomethane	-	-		NA
Acetone	-	3.4		NA
Methylene Chloride	5.5	6		NA
Carbon Disulfide	2.2	-		NA
2-Butanone (MEK)	-	-	200000	Pass
Chloroform	2.1	2.5	6000	Pass
Trichloroethene	-	-	500	Pass
Bromodichloromethane	0.34	-		NA
Toluene	0.27	-		NA
Chlorodibromomethane	0.19	1.9		NA
Xylenes (total)	-	-		NA
1,2,4-Trimethylbenzene	-	-		NA
p-Isopropyltoluene	-	-		NA
1,3-Dichlorobenzene	-	-		NA
1,4-Dichlorobenzene	0.14	-	7500	Pass
1,2-Dichlorobenzene	-	-		NA
Semi-Volatile Organic Compounds				
1,3-Dichlorobenzene	-	-		NA
1,4-Dichlorobenzene	-	-	7500	Pass
Benzyl alcohol	-	3.1		NA
1,2-Dichlorobenzene	-	-		NA
Nitrobenzene	-	-	2000	Pass
2-Nitrophenol	-	-		NA
Benzoic Acid	-	-		NA
1,2,4-Trichlorobenzene	-	-		NA
Naphthalene	-	-		NA
Hexachlorobutadiene	-	-	500	Pass
2-Methylnaphthalene	-	-		NA
2,4,6-Trichlorophenol	-	-	2000	Pass
2-Chloronaphthalene	-	-		NA
Acenaphthylene	-	-		NA
Acenaphthene	-	-		NA
Dibenz(a,h)anthracene	-	-		NA
Dibenzofuran	-	-		NA
Fluorene	-	-		NA
4-Chlorophenyl phenyl ether	-	-		NA
N-Nitrosodiphenylamine	-	-		NA
Pyrene	-	-		NA
4-Bromophenyl phenyl ether	-	-		NA
Hexachlorobenzene	-	-	130	Pass
Pentachlorophenol	-	-	100000	Pass
Phenanthrene	-	-		NA
Anthracene	-	-		NA
Fluoranthene	-	-		NA
Benzo(a)anthracene	-	-		NA
Chrysene	-	-		NA
Bis(2-ethylhexyl)phthalate	-	-		NA
Benzo(b)fluoranthene	-	-		NA
Benzo(k)fluoranthene	-	-		NA
Benzo(a)pyrene	-	-		NA
Indeno(1,2,3-cd)pyrene	-	-		NA
Benzo(ghi)perylene	-	-		NA
Di-n-butyl phthalate	-	-		NA
Benzo(ghi)perylene	-	-		NA
PCBs				
Aroclor 1254	-	-		NA
Dioxins/Furans				
TEQ				NA

Notes:
ug/kg = micrograms per kilogram
ug/L = micrograms per liter
NA = not available
- = not detected
blank = not analyzed/not sampled
TCLP = Toxicity Characteristic Leaching Procedure

Table 5
Summary of Historical Incinerator Ash Laboratory Analytical Data for Radionuclides

Location ID	Depth (ft)	Sample ID	Media	Gross alpha	Gross beta	Gross gamma	Cs-137	Pu-239	U-234	U-235	U-238	Tritium
Soil Background Value (BV)				-	-	-	1.65	0.054	2.59	0.2	2.29	0.76
Units				(pCi/g)	(pCi/g)	(pCi/g)	(pCi/g)	(pCi/g)	(pCi/g)	(pCi/g)	(pCi/g)	(pCi/ml)
73-02252	0.1-0.3	0173-96-0331	NA	-	-	-	-	-	-	-	-	0.08
73-02252	0.10-0.30	0173-96-0331	NA	8.9	6.7	6.65	-	-	-	-	-	-
73-02253	0.00-0.50	0173-96-0302	Soil	0.66	1.04	8.08	-	-	-	-	-	-
73-02254	0.00-0.50	0173-96-0320	Soil	3.55	3.6	14.1	-	-	-	-	-	0.054
73-02255	0.00-0.50	0173-96-0308	Soil	3.07	4.33	16.5	-	-	-	-	-	0.064
73-02260	0.00-0.70	0173-96-0305	NA	6.4	7.7	6.98	-	-	-	-	-	-
73-02262	0.00-1.00	0173-96-0307	NA	2.88	-	2.24	-	-	-	-	-	-
73-02264	0.00-0.00	0173-96-0304	NA	4.7	7.8	5.32	-	-	-	-	-	-
73-02266	0.00-0.00	0173-96-0309	NA	11.6	8.8	5.33	-	-	-	-	-	-
73-02268	0.00-1.00	0173-96-0314	NA	8.7	9.4	7.11	-	-	-	-	-	-
73-02268	0.00-1.00	0173-96-0345	NA	10.7	9	6.21	-	-	-	-	-	-
73-02270	0.00-0.00	0173-96-0316	NA	2.94	5.6	3.99	-	-	-	-	-	-
73-02270	0.00-0.00	0173-96-0346	NA	-	5.2	2.48	-	-	-	-	-	-
73-02326	14.00-15.00	0173-96-0501	Fill	6.02	3.15	12.3	-	-	-	-	-	-
73-02327	14.00-15.00	0173-96-0502	Fill	2.44	1.42	13	-	-	-	-	-	-
73-02467	0.10-0.50	0173-97-0331	NA	22.2	13.8	9.15	-	-	12.57	0.5	8.84	-
73-02468	0.1-0.5	0173-97-0332	NA	-	-	-	0.239	-	-	-	-	-
73-02468	0.10-0.50	0173-97-0332	NA	19.8	21.4	8.89	-	-	17.1	0.771	15.93	-
73-10000	0.00-0.50	RE73-98-0001	NA	-	-	-	-	-	5.37	0.308	2.51	-
73-10000	0-0.5	RE73-98-0001	NA	-	-	-	1.51	2.54	-	-	-	-
73-10000	0.00-0.50	RE73-98-0002	NA	-	-	-	-	-	4.9	0.578	2.23	-
73-10000	0-0.5	RE73-98-0002	NA	-	-	-	1.45	2.5				-
73-10001	0.00-0.50	RE73-98-0003	NA	-	-	-	-	-	3.84	0.352	1.98	-
73-10001	0-0.5	RE73-98-0003	NA	-	-	-	0.98	0.522	-	-	-	-
73-10002	0.00-0.50	RE73-98-0066	NA	-	-	-	-	-	2.82	0.219	1.44	-
73-10002	0-0.5	RE73-98-0066	NA	-	-	-	0.87	0.801	-	-	-	-
73-10003	0.00-0.50	RE73-98-0004	NA	-	-	-	-	-	14.15	0.765	6.6	-
73-10003	0-0.5	RE73-98-0004	NA	-	-	-	-	1.228	-	-	-	-
73-10004	0.00-0.50	RE73-98-0005	NA	-	-	-	-	-	14.53	0.966	11.62	-
73-10004	0-0.5	RE73-98-0005	NA	-	-	-	0.34	0.731	-	-	-	-
73-10005	0.00-0.50	RE73-98-0006	NA	-	-	-	-	-	9.41	0.783	8.11	-
73-10005	0-0.5	RE73-98-0006	NA	-	-	-	-	0.709	-	-	-	-
73-10006	0.00-0.50	RE73-98-0007	NA	-	-	-	-	-	5.89	0.523	4.31	-
73-10006	0-0.5	RE73-98-0007	NA	-	-	-	0.32	1.82				-
73-10007	0.00-0.50	RE73-98-0008	NA	-	-	-	-	-	4.97	0.289	4.32	-
73-10007	0-0.5	RE73-98-0008	NA	-	-	-	0.26	1.052				-
73-10008	0.00-0.50	RE73-98-0009	NA	-	-	-	-	-	3.15	0.211	2.41	-
73-10008	0-0.5	RE73-98-0009	NA	-	-	-	0.5	0.469				-
73-10009	0.00-0.50	RE73-98-0010	NA	-	-	-	-	-	3.53	0.219	2.83	-
73-10009	0-0.5	RE73-98-0010	NA	-	-	-	0.33	0.363	-	-	-	-
73-10010	0.00-0.50	RE73-98-0011	NA	-	-	-	-	-	5.7	0.439	4.57	-
73-10010	0-0.5	RE73-98-0011	NA	-	-	-	0.38	0.627	-	-	-	-
73-10011	0.00-0.50	RE73-98-0012	NA	-	-	-	-	-	6.71	0.353	4.12	-
73-10011	0-0.5	RE73-98-0012	NA	-	-	-	-	1.95	-	-	-	-
73-10026	0.00-0.50	RE73-98-0027	NA	-	-	-	-	-	1.62	0.082	1.5	-

Table 5
Summary of Historical Incinerator Ash Laboratory Analytical Data for Radionuclides

Location ID	Depth (ft)	Sample ID	Media	Gross alpha	Gross beta	Gross gamma	Cs-137	Pu-239	U-234	U-235	U-238	Tritium
Soil Background Value (BV)				-	-	-	1.65	0.054	2.59	0.2	2.29	0.76
Units				(pCi/g)	(pCi/g)	(pCi/g)	(pCi/g)	(pCi/g)	(pCi/g)	(pCi/g)	(pCi/g)	(pCi/ml)
73-10026	0-0.5	RE73-98-0027	NA	-	-	-	0.35	1.242	-	-	-	-
73-10027	0.00-0.50	RE73-98-0028	NA	-	-	-	-	-	1.45	0.085	1.332	-
73-10027	0-0.5	RE73-98-0028	NA	-	-	-	-	0.202	-	-	-	-
73-10028	0.00-0.50	RE73-98-0029	NA	-	-	-	-	-	1.298	0.086	1.253	-
73-10028	0-0.5	RE73-98-0029	NA	-	-	-	-	0.088	-	-	-	-
73-10029	0.00-0.50	RE73-98-0030	NA	-	-	-	-	-	2.88	0.201	2.26	-
73-10029	0-0.5	RE73-98-0030	NA	-	-	-	-	0.51	-	-	-	-
73-10030	0.00-0.50	RE73-98-0031	NA	-	-	-	-	-	1.49	0.083	1.281	-
73-10030	0-0.5	RE73-98-0031	NA	-	-	-	-	0.273	-	-	-	-
73-10031	0.00-0.50	RE73-98-0032	NA	-	-	-	-	-	1.86	0.158	1.69	-
73-10031	0-0.5	RE73-98-0032	NA	-	-	-	0.53	0.225	-	-	-	-
73-10032	0.00-0.50	RE73-98-0033	NA	-	-	-	-	-	2.67	0.226	2.23	-
73-10032	0-0.5	RE73-98-0033	NA	-	-	-	0.43	0.353	-	-	-	-
73-10033	0.00-0.50	RE73-98-0034	NA	-	-	-	-	-	1.43	0.129	1.205	-
73-10033	0-0.5	RE73-98-0034	NA	-	-	-	0.42	0.218	-	-	-	-
73-10034	0.00-0.50	RE73-98-0035	NA	-	-	-	-	-	3.18	0.306	2.98	-
73-10034	0-0.5	RE73-98-0035	NA	-	-	-	0.36	0.322	-	-	-	-
73-10034	0.00-0.50	RE73-98-0068	NA	-	-	-	-	-	3.04	0.216	2.61	-
73-10034	0-0.5	RE73-98-0068	NA	-	-	-	0.27	0.546	-	-	-	-
73-10035	0.00-0.50	RE73-98-0036	NA	-	-	-	-	-	4	0.409	3.48	-
73-10035	0-0.5	RE73-98-0036	NA	-	-	-	0.42	0.48	-	-	-	-
73-10036	0.00-0.50	RE73-98-0037	NA	-	-	-	-	-	5.25	0.383	4.92	-
73-10036	0-0.5	RE73-98-0037	NA	-	-	-	0.29	0.346	-	-	-	-
73-10037	0.00-0.50	RE73-98-0038	NA	-	-	-	-	-	1.312	0.131	1.215	-
73-10037	0-0.5	RE73-98-0038	NA	-	-	-	0.29	0.115	-	-	-	-

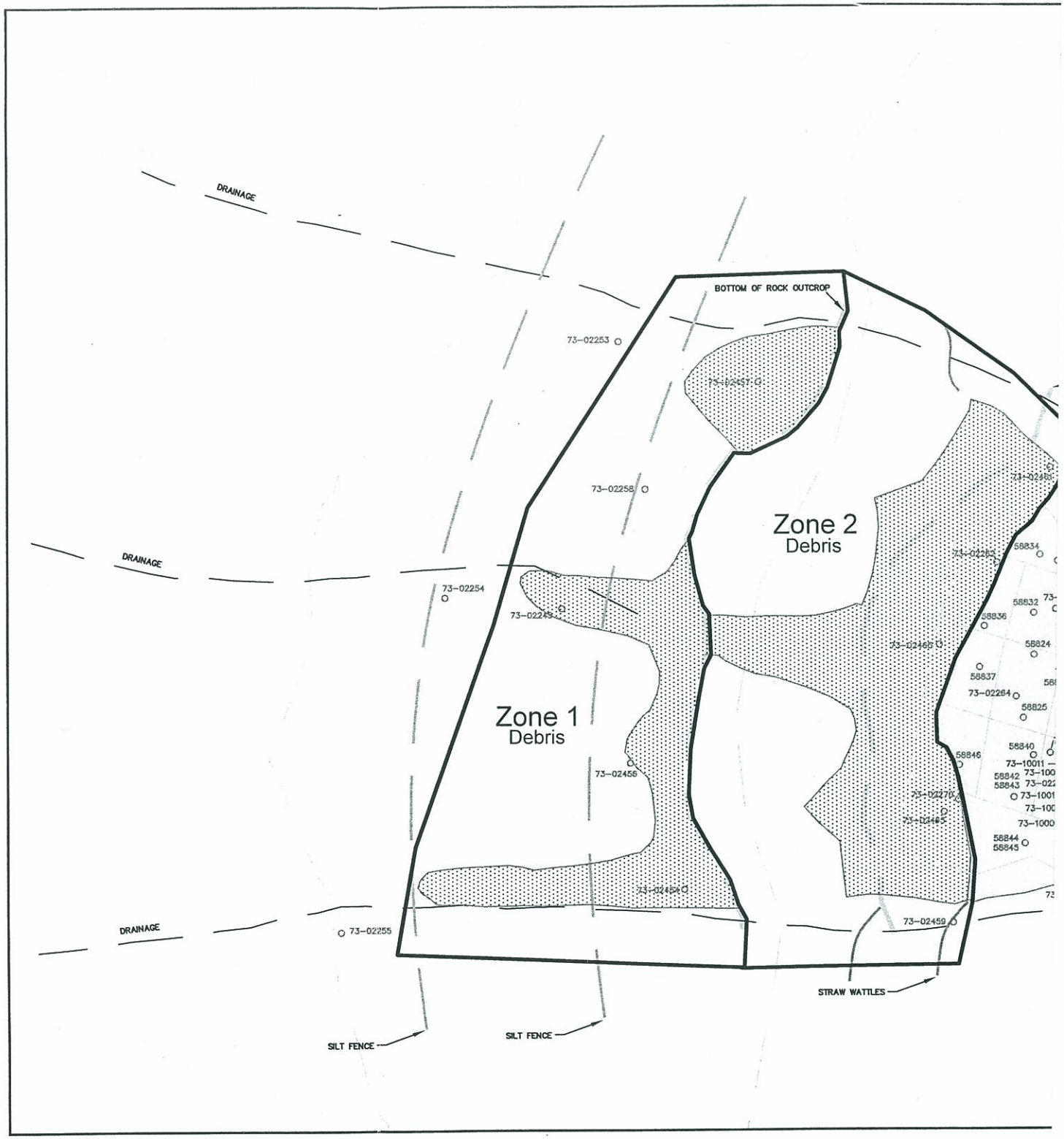
Notes:
NA - not available
- = if analyzed, sample result is less than BV
BV from LANL 1998
pCi/g = picoCurries per gram
Cs = Cesium
Pu = Plutonium
U = Uranium

Table 6
Summary of 2005 Incinerator Ash Laboratory Analytical Data for Radionuclides

Sample ID	Location	Am-241	U-234	U-235	U-238	Pu-238	Pu-239	Ra-226	Ra-224	Th-234	Cs-137
Soil Background Value (BV)		**0.013**	**2.59**	**0.2**	**2.29**	**0.023**	**0.054**	**2.59**	**2.33**	**2.29**	**1.65**
RE-73-05-58842/43	. B3	0.036	9.090	0.360	7.160	-	1.070	6.240	2.440	5.050	-
RE-73-05-58844/45	Ash	0.029	1.700	0.081	1.360	-	0.143	1.950	2.190	-	0.138
RE-73-05-58846	B4	-	3.290	0.157	2.770	-	0.296	2.060	-	1.340	-
RE73-05-58824	C3 East	0.035	8.410	0.400	7.640	-	0.360	4.740	2.900	3.870	-
RE73-05-58825	C3 West	-	12.400	0.458	5.780	-	2.340	4.910	-	2.390	-
RE73-05-58826	C2 East	0.024	8.220	0.475	7.010	-	0.475	6.210	2.040	4.330	-
RE73-05-58827	C2 West	-	9.970	0.494	6.970	-	0.544	6.910	5.400	5.490	-
RE73-05-58828	C1	0.037	5.230	0.267	3.310	-	1.680	6.650	2.340	5.220	-
RE73-05-58830	D2	0.023	5.540	0.264	4.990	-	0.375	3.360	-	2.200	-
RE73-05-58831	D3	-	20.000	1.060	18.700	-	0.310	8.120	2.300	7.500	-
RE73-05-58832	D3	-	3.540	0.193	2.610	-	0.236	2.810	2.110	1.790	-
RE73-05-58833	E3	-	1.590	0.057	1.240	-	0.219	3.970	2.040	2.970	-
RE73-05-58834	E3	-	1.730	0.092	1.150	-	0.186	-	1.990	-	-
RE73-05-58836	D4	-	2.240	0.106	1.930	-	0.104	1.900	1.150	1.060	0.092
RE73-05-58837	C4	-	1.680	0.089	1.450	-	0.100	1.370	1.130	1.000	-
RE73-05-58838	B1	-	37.300	2.020	31.200	-	0.848	25.200	-	21.100	-
RE73-05-58839	B2	-	7.400	0.340	4.840	-	0.455	4.390	2.490	2.490	-
RE73-05-58840	B3	-	3.030	0.194	2.420	-	0.842	1.640	-	1.160	-

Notes:
All values are in picoCurries per gram (pCi/g)
BVs from LANL 1998 (59730), Table 6.0-2)
- = non detect
Am - Americium
U - Uranium
Pu - Plutonium
Ra - Radium
Th - Thorium
Cs - Cesium

Attachment C


DRAINAGE
DRAINAGE
DRAINAGE
BOTTOM OF ROCK OUTCROP
73-02253
73-02257
73-02258
73-02254
73-02243
73-02456
73-02454
73-02255
73-02459
73-02465
73-02264
73-02270
73-02465
58834
58832
58836
58824
58837
58825
58840
58846
58842
58843
58844
58845
73-10011
73-02481
Zone 1
Debris
Zone 2
Debris
SILT FENCE
SILT FENCE
STRAW WATTLES

Attachment D

HSR-1 RADIOLOGICAL SURVEY FORM

HSR-1 Survey Number: GMP-05-1208

SAMPLE DESCRIPTION

Sample Date/Time: 12/13/05 1400 No. of Samples: 25

TA: 73 Bldg: Ash Pit Rm: N/A

RCT: D. Bullock Z Number: 196973

RCT Signature: MS: K988

Phone: 5-4928 Fax: 7-5186

INSTRUMENTATION

TYPE	HSE No.	CAL Due	% EFF	CF or Detector Size	BKG	MDA
Eberline SHP380AB	13435	3/1/2006	20	N/A	23.3	63.7
Eberline SHP380AB	13435	3/1/2006	20	N/A	1466	411.7
Eberline E-600	12228	5/19/2006	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ludlum S 43-10-1	N/A	N/A	N/A	N/A	N/A	N/A

PURPOSE OF SURVEY

☐ Routine ☐ Pre-Job ☐ Post-Job ☐ Hot-Job

☐ Item Release ☐ Offsite Shipment ☐ Onsite Shipment

■ Non-Routine / Other: Survey of Ash Pit tin cans

FIELD SMEAR COUNTER MDA

alpha: N/A

beta: N/A

SAMPLE TRACKING NUMBER

25017775

■ SMEARS COUNTED AT HPAL, SEE HPAL RESULTS FOR MDAs

ADDITIONAL INFORMATION

RWP No.: N/A

Work Request No.: N/A Incident No.: N/A

HSR-1 REVIEW BY

Survey Point	Item / Area	Direct Survey Results		Smear Survey Results		Tritium	External Radiation Survey					
		Alpha	Beta/Gamma	Alpha	Beta/Gamma	Smear Results	at Contact		at 30 cm		at 1 Meter	
		dpm*	dpm*	dpm*	dpm*	dpm*	gamma (mR/hr)	neutron (mrem/hr)	gamma (mR/hr)	neutron (mrem/hr)	gamma (mR/hr)	neutron (mrem/hr)
1	Rusty tin can #1	NDA	NDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	Rusty tin can #2	NDA	NDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3	Rusty tin can #3	NDA	NDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4	Rusty tin can #4	NDA	NDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5	Rusty tin can #5	88	<MDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6	Rusty tin can #6	<MDA	<MDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7	Rusty tin can #7	NDA	NDA	<MDA	8.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8	Rusty tin can #8	<MDA	<MDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9	Rusty tin can #9	77	<MDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10	Rusty tin can #10	NDA	NDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11	Rusty tin can #11	NDA	NDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12	Rusty tin can #12	NDA	NDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13	Rusty tin can #13	NDA	NDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14	Rusty tin can #14	NDA	NDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15	Rusty tin can #15	NDA	NDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*dpm/100 cm²

HSR-1 RADIOLOGICAL SURVEY FORM

HSR-1 Survey Number: GMP-05-1208

Survey Point	Item / Area	Direct Survey Results		Smear Survey Results		Tritium	External Radiation Survey					
		Alpha	Beta/Gamma	Alpha	Beta/Gamma	Smear Results	at Contact		at 30 cm		at 1 Meter	
		dpm*	dpm*	dpm*	dpm*	dpm*	gamma (mR/hr)	neutron (mrem/hr)	gamma (mR/hr)	neutron (mrem/hr)	gamma (mR/hr)	neutron (mrem/hr)
16	Rusty tin can #16	<MDA	<MDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17	Rusty tin can #17	NDA	NDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18	Rusty tin can #18	NDA	NDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19	Rusty tin can #19	NDA	NDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20	Rusty tin can #20	NDA	NDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21	Rusty tin can #21	<MDA	<MDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
22	Rusty tin can #22	NDA	NDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
23	Rusty tin can #23	NDA	NDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
24	Rusty tin can #24	NDA	NDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
25	Rusty tin can #25	NDA	NDA	<MDA	<MDA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
28	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
29	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
32	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
33	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
35	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
39	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
40	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*dpm/100 cm²

HPAL ANALYSIS REPORT FORM

FILE: 25017775

SAMPLE DESCRIPTION ANALYSIS REQUESTED RCT

Berthold 780 at TA-50

Sample Date: 12/13/2005 Nucon Name: David Bullock 0

TA: 73 TA: 52

BLDG: ASH PIT Analyst: Trujillo Isaac MS: K988

Sample ID #	Alpha Activity dpm	2*sigma dpm	Alpha MDA dpm	Beta Activity dpm	2*sigma dpm	Beta MDA dpm
1	NDA	NDA	4.9	NDA	NDA	8.4
2	NDA	NDA	5.0	NDA	NDA	6.2
3	NDA	NDA	5.3	NDA	NDA	6.3
4	NDA	NDA	5.7	NDA	NDA	7.2
5	NDA	NDA	5.5	NDA	NDA	7.1
6	NDA	NDA	5.7	NDA	NDA	7.6
7	NDA	NDA	5.0	8.1	2.9	6.8
8	NDA	NDA	5.5	NDA	NDA	6.9
9	NDA	NDA	5.0	NDA	NDA	6.7
10	NDA	NDA	4.9	NDA	NDA	8.0
11	NDA	NDA	4.9	NDA	NDA	8.4
12	NDA	NDA	5.0	NDA	NDA	6.2
13	NDA	NDA	5.3	NDA	NDA	6.3
14	NDA	NDA	5.7	NDA	NDA	7.2
15	NDA	NDA	5.5	NDA	NDA	7.1
16	NDA	NDA	5.7	NDA	NDA	7.6
17	NDA	NDA	5.0	NDA	NDA	6.8
18	NDA	NDA	5.5	NDA	NDA	6.9
19	NDA	NDA	5.0	NDA	NDA	6.7
20	NDA	NDA	4.9	NDA	NDA	8.0
21	NDA	NDA	4.9	NDA	NDA	8.4
22	NDA	NDA	5.0	NDA	NDA	6.2
23	NDA	NDA	5.3	NDA	NDA	6.3
24	NDA	NDA	5.7	NDA	NDA	7.2
25	NDA	NDA	5.5	NDA	NDA	7.1

Attachment E
Part 1

GENERAL ENGINEERING LABORATORIES, LLC

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Certificate of Analysis

Company : Los Alamos National Laboratories
Address : PO Box 1663
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Los Alamos, New Mexico 87545
Contact: Joylene Valdez
Project: **LANL ER Project**

Report Date: January 4, 2006

Client Sample ID: RE73-06-66447
Sample ID: 152616001
Matrix: Misc Solid
Collect Date: 20-DEC-05 13:30
Receive Date: 22-DEC-05
Collector: Client

Project: LANL00600
Client ID: LANL006

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
LC-MS/MS Explosives Federal											
SW846 8321A Modified Explosives by LC-MS/MS											
Volatile Organics Federal											
GEL 8260B Method List Soil Fed											
1,1,1,2-Tetrachloroethane	U	ND		0.200	1.00	ug/kg	1	GRB2 01/03/06	2343	491532	3
1,1,1-Trichloroethane	U	ND		0.300	1.00	ug/kg	1				
1,1,2,2-Tetrachloroethane	U	ND		0.250	1.00	ug/kg	1				
1,1,2-Trichloroethane	U	ND		0.300	1.00	ug/kg	1				
1,1-Dichloroethane	U	ND		0.300	1.00	ug/kg	1				
1,1-Dichloroethylene	U	ND		0.300	1.00	ug/kg	1				
1,1-Dichloropropene	U	ND		0.250	1.00	ug/kg	1				
1,2,3-Trichloropropane	U	ND		0.500	1.00	ug/kg	1				
1,2,4-Trimethylbenzene	U	ND		0.200	1.00	ug/kg	1				
1,2-Dibromo-3-chloropropane	U	ND		0.500	1.00	ug/kg	1				
1,2-Dibromoethane	U	ND		0.200	1.00	ug/kg	1				
1,2-Dichlorobenzene	U	ND		0.200	1.00	ug/kg	1				
1,2-Dichloroethane	U	ND		0.250	1.00	ug/kg	1				
1,2-Dichloropropane	U	ND		0.300	1.00	ug/kg	1				
1,3,5-Trimethylbenzene	U	ND		0.200	1.00	ug/kg	1				
1,3-Dichlorobenzene	U	ND		0.200	1.00	ug/kg	1				
1,3-Dichloropropane	U	ND		0.300	1.00	ug/kg	1				
1,4-Dichlorobenzene	U	ND		0.200	1.00	ug/kg	1				
2,2-Dichloropropane	U	ND		0.300	1.00	ug/kg	1				
2-Butanone	J	2.45		1.70	5.00	ug/kg	1				
2-Chlorotoluene	U	ND		0.200	1.00	ug/kg	1				
2-Hexanone	U	ND		1.52	5.00	ug/kg	1				
4-Chlorotoluene	U	ND		0.240	1.00	ug/kg	1				
4-Isopropyltoluene	U	ND		0.250	1.00	ug/kg	1				
4-Methyl-2-pentanone	J	3.73		1.09	5.00	ug/kg	1				
Acetone		45.5		2.58	5.00	ug/kg	1				
Benzene	U	ND		0.330	1.00	ug/kg	1				
Bromobenzene	U	ND		0.200	1.00	ug/kg	1				
Bromochloromethane	U	ND		0.500	1.00	ug/kg	1				
Bromodichloromethane	U	ND		0.200	1.00	ug/kg	1				
Bromoform	U	ND		0.300	1.00	ug/kg	1				
Bromomethane	U	ND		0.500	1.00	ug/kg	1				
Carbon disulfide	U	ND		1.25	5.00	ug/kg	1				
Carbon tetrachloride	U	ND		0.200	1.00	ug/kg	1				
Chlorobenzene	U	ND		0.200	1.00	ug/kg	1				
Chloroethane	U	ND		0.500	1.00	ug/kg	1				

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Los Alamos, New Mexico 87545
Contact: Joylene Valdez
Project: **LANL ER Project**

Report Date: January 4, 2006

Client Sample ID: RE73-06-66447
Sample ID: 152616001

Project: LANL00600
Client ID: LANL006

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal											
GEL 8260B Method List Soil Fed											
Chloroform	U	ND		0.200	1.00	ug/kg	1				
Chloromethane	U	ND		0.500	1.00	ug/kg	1				
Dibromochloromethane	U	ND		0.300	1.00	ug/kg	1				
Dibromomethane	U	ND		0.300	1.00	ug/kg	1				
Dichlorodifluoromethane	U	ND		0.500	1.00	ug/kg	1				
Ethylbenzene		1.21		0.200	1.00	ug/kg	1				
Iodomethane	U	ND		1.67	5.00	ug/kg	1				
Isopropylbenzene	U	ND		0.200	1.00	ug/kg	1				
Methylene chloride		26.7		2.00	5.00	ug/kg	1				
Styrene	U	ND		0.200	1.00	ug/kg	1				
Tetrachloroethylene	U	ND		0.200	1.00	ug/kg	1				
Toluene	J	0.354		0.290	1.00	ug/kg	1				
Trichloroethylene	U	ND		0.250	1.00	ug/kg	1				
Trichlorofluoromethane	U	ND		0.500	1.00	ug/kg	1				
1,1,2-Trichloro-1,2,2-Trifluoroethane	U	ND		1.00	5.00	ug/kg	1				
Vinyl chloride	U	ND		0.500	1.00	ug/kg	1				
cis-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/kg	1				
cis-1,3-Dichloropropylene	U	ND		0.200	1.00	ug/kg	1				
m,p-Xylenes		4.91		0.250	2.00	ug/kg	1				
n-Butylbenzene	U	ND		0.200	1.00	ug/kg	1				
n-Propylbenzene	U	ND		0.200	1.00	ug/kg	1				
o-Xylene		1.26		0.200	1.00	ug/kg	1				
sec-Butylbenzene	U	ND		0.200	1.00	ug/kg	1				
tert-Butylbenzene	U	ND		0.200	1.00	ug/kg	1				
trans-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/kg	1				
trans-1,3-Dichloropropylene	U	ND		0.300	1.00	ug/kg	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
GL-RAD-A-026	Laboratory sample composite				490520
SW846 5030	Volatile 5030 Solid Prep	TLW	01/03/06	2030	491531
SW846 8330 PREP	SW846 8330 Explosives Extraction in Solids	JXC2	01/03/06	1045	491036

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	SW846 8321A Modified	
3	SW846 8260B	

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Project: **LANL ER Project**

Report Date: January 4, 2006

Client Sample ID: RE73-06-66447
Sample ID: 152616001

Project: LANL00600
Client ID: LANL006

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Bromofluorobenzene	GEL 8260B Method List Soil Fed	53.5	50.0	107	(62%-124%)
Dibromofluoromethane	GEL 8260B Method List Soil Fed	57.3	50.0	115	(74%-121%)
Toluene-d8	GEL 8260B Method List Soil Fed	52.6	50.0	105	(76%-121%)

Notes:
The Qualifiers in this report are defined as follows :

B Target analyte was detected in the sample as well as the associated blank.
D Sample has been diluted and reanalyzed after initially exceeding inst. calibration range
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value.
P The response between the confirmation and the primary columns is >40% Different.
R Sample results are rejected.
U Target analyte was analyzed for but not detected above the MDL or LOD.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
d The 2:1 depletion requirement was not met for this sample
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

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Project: **LANL ER Project**

Report Date: January 4, 2006

Client Sample ID: RE73-06-66447
Sample ID: 152616001
Matrix: Misc Solid
Collect Date: 20-DEC-05 13:30
Receive Date: 22-DEC-05
Collector: Client

Project: LANL00600
Client ID: LANL006

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
LC-MS/MS Explosives Federal											
SW846 8321A Modified Explosives by LC-MS/MS											
Semi-volatile Mass spec Organics Federal											
8270C/3550B App 9 BNA Soil Fed											
1,2,4-Trichlorobenzene	U	ND		133	667	ug/kg	1	EED 12/30/05	2011	490929	3
1,2-Dichlorobenzene	U	ND		133	667	ug/kg	1				
Azobenzene	U	ND		133	667	ug/kg	1				
1,3-Dichlorobenzene	U	ND		133	667	ug/kg	1				
1,4-Dichlorobenzene	U	ND		133	667	ug/kg	1				
2,4,5-Trichlorophenol	U	ND		133	667	ug/kg	1				
2,4,6-Trichlorophenol	U	ND		133	667	ug/kg	1				
2,4-Dichlorophenol	U	ND		133	667	ug/kg	1				
2,4-Dimethylphenol	U	ND		133	667	ug/kg	1				
2,4-Dinitrophenol	U	ND		253	1330	ug/kg	1				
2,4-Dinitrotoluene	U	ND		66.7	667	ug/kg	1				
2,6-Dinitrotoluene	U	ND		66.7	667	ug/kg	1				
2-Chloronaphthalene	U	ND		23.3	66.7	ug/kg	1				
2-Chlorophenol	U	ND		133	667	ug/kg	1				
2-Methyl-4,6-dinitrophenol	U	ND		133	667	ug/kg	1				
2-Methylnaphthalene	U	ND		13.3	66.7	ug/kg	1				
2-Nitrophenol	U	ND		66.7	667	ug/kg	1				
3,3'-Dichlorobenzidine	U	ND		200	667	ug/kg	1				
4-Bromophenylphenylether	U	ND		66.7	667	ug/kg	1				
4-Chloro-3-methylphenol	U	ND		66.7	667	ug/kg	1				
4-Chloroaniline	U	ND		133	667	ug/kg	1				
4-Chlorophenylphenylether	U	ND		66.7	667	ug/kg	1				
4-Nitrophenol	U	ND		133	667	ug/kg	1				
Acenaphthene	U	ND		22.3	66.7	ug/kg	1				
Acenaphthylene	U	ND		20.0	66.7	ug/kg	1				
Aniline	U	ND		233	667	ug/kg	1				
Anthracene	U	ND		13.3	66.7	ug/kg	1				
Benzo(a)anthracene	U	ND		20.0	66.7	ug/kg	1				
Benzo(a)pyrene	U	ND		20.0	66.7	ug/kg	1				
Benzo(b)fluoranthene	U	ND		20.0	66.7	ug/kg	1				
Benzo(ghi)perylene	U	ND		20.0	66.7	ug/kg	1				
Benzo(k)fluoranthene	U	ND		20.0	66.7	ug/kg	1				
Benzoic acid	U	ND		333	1330	ug/kg	1				
Benzyl alcohol	U	ND		200	667	ug/kg	1				
Butylbenzylphthalate	U	ND		133	667	ug/kg	1				
Chrysene	U	ND		20.0	66.7	ug/kg	1				

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Report Date: January 4, 2006

Client Sample ID: RE73-06-66447
Sample ID: 152616001

Project: LANL00600
Client ID: LANL006

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-volatile Mass spec Organics Federal											
8270C/3550B App 9 BNA Soil Fed											
Di-n-butylphthalate	U	ND		66.7	667	ug/kg	1				
Di-n-octylphthalate	U	ND		133	667	ug/kg	1				
Dibenzo(a,h)anthracene	U	ND		20.0	66.7	ug/kg	1				
Dibenzofuran	U	ND		133	667	ug/kg	1				
Diethylphthalate	U	ND		133	667	ug/kg	1				
Dimethylphthalate	U	ND		133	667	ug/kg	1				
Diphenylamine	U	ND		133	667	ug/kg	1				
Fluoranthene	U	ND		20.0	66.7	ug/kg	1				
Fluorene	U	ND		20.0	66.7	ug/kg	1				
Hexachlorobenzene	U	ND		133	667	ug/kg	1				
Hexachlorobutadiene	U	ND		133	667	ug/kg	1				
Hexachlorocyclopentadiene	U	ND		133	667	ug/kg	1				
Hexachloroethane	U	ND		133	667	ug/kg	1				
Indeno(1,2,3-cd)pyrene	U	ND		20.0	66.7	ug/kg	1				
Isophorone	U	ND		133	667	ug/kg	1				
N-Methyl-N-nitrosomethylamine	U	ND		133	667	ug/kg	1				
N-Nitrosodipropylamine	U	ND		133	667	ug/kg	1				
Naphthalene	U	ND		20.0	66.7	ug/kg	1				
Nitrobenzene	U	ND		133	667	ug/kg	1				
Pentachlorophenol	U	ND		133	667	ug/kg	1				
Phenanthrene	U	ND		20.0	66.7	ug/kg	1				
Phenol	U	ND		133	667	ug/kg	1				
Pyrene	U	ND		20.9	66.7	ug/kg	1				
Pyridine	U	ND		133	667	ug/kg	1				
bis(2-Chloroethoxy)methane	U	ND		133	667	ug/kg	1				
bis(2-Chloroethyl) ether	U	ND		133	667	ug/kg	1				
bis(2-Chloroisopropyl)ether	U	ND		133	667	ug/kg	1				
bis(2-Ethylhexyl)phthalate	U	ND		133	333	ug/kg	1				
m,p-Cresols	U	ND		267	667	ug/kg	1				
3-Nitroaniline	U	ND		133	667	ug/kg	1				
o-Cresol	U	ND		133	667	ug/kg	1				
2-Nitroaniline	U	ND		133	667	ug/kg	1				
4-Nitroaniline	U	ND		133	667	ug/kg	1				
Volatile Organics Federal											
GEL 8260B Method List Soil Fed											

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
GL-RAD-A-026	Laboratory sample composite				490520
SW846 3550B	3550B BNA Soil Prep-8270C Appendix 9 Fed	JPB	12/30/05	1229	490928

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Project: LANL00600
Client ID: LANL006

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 5030	Volatile 5030 Solid Prep				TLW	01/03/06	2030	491531			
SW846 8330 PREP	SW846 8330 Explosives Extraction in Solids				JXC2	01/03/06	1045	491036			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	SW846 8321A Modified	
3	SW846 8270C	
4	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	8270C/3550B App 9 BNA Soil Fed	1570	6670	24 *	(35%-120%)
2-Fluorobiphenyl	8270C/3550B App 9 BNA Soil Fed	1530	3330	46 *	(50%-113%)
2-Fluorophenol	8270C/3550B App 9 BNA Soil Fed	2030	6670	30 *	(40%-105%)
Nitrobenzene-d5	8270C/3550B App 9 BNA Soil Fed	1490	3330	45	(42%-114%)
Phenol-d5	8270C/3550B App 9 BNA Soil Fed	2250	6670	34 *	(46%-100%)
p-Terphenyl-d14	8270C/3550B App 9 BNA Soil Fed	2060	3330	62	(44%-125%)

Notes:
The Qualifiers in this report are defined as follows :

B Target analyte was detected in the sample as well as the associated blank.
D Sample has been diluted and reanalyzed after initially exceeding inst. calibration range
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value.
P The response between the confirmation and the primary columns is >40% Different.
R Sample results are rejected.
U Target analyte was analyzed for but not detected above the MDL or LOD.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
d The 2:1 depletion requirement was not met for this sample
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

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Los Alamos, New Mexico 87545
Contact: Joylene Valdez
Project: **LANL ER Project**

Report Date: January 4, 2006

Client Sample ID: RE73-06-66447
Sample ID: 152616001

Project: LANL00600
Client ID: LANL006

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

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Project: **LANL ER Project**

Report Date: January 4, 2006

Client Sample ID: RE73-06-66448
Sample ID: 152616002
Matrix: Misc Solid
Collect Date: 20-DEC-05 12:00
Receive Date: 22-DEC-05
Collector: Client

Project: LANL00600
Client ID: LANL006

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
LC-MS/MS Explosives Federal											
SW846 8321A Modified Explosives by LC-MS/MS											
Volatile Organics Federal											
GEL 8260B Method List Soil Fed											
1,1,1,2-Tetrachloroethane	U	ND		0.200	1.00	ug/kg	1	GRB2 01/03/06	2313	491532	3
1,1,1-Trichloroethane	U	ND		0.300	1.00	ug/kg	1				
1,1,2,2-Tetrachloroethane	U	ND		0.250	1.00	ug/kg	1				
1,1,2-Trichloroethane	U	ND		0.300	1.00	ug/kg	1				
1,1-Dichloroethane	U	ND		0.300	1.00	ug/kg	1				
1,1-Dichloroethylene	U	ND		0.300	1.00	ug/kg	1				
1,1-Dichloropropene	U	ND		0.250	1.00	ug/kg	1				
1,2,3-Trichloropropane	U	ND		0.500	1.00	ug/kg	1				
1,2,4-Trimethylbenzene	U	ND		0.200	1.00	ug/kg	1				
1,2-Dibromo-3-chloropropane	U	ND		0.500	1.00	ug/kg	1				
1,2-Dibromoethane	U	ND		0.200	1.00	ug/kg	1				
1,2-Dichlorobenzene	U	ND		0.200	1.00	ug/kg	1				
1,2-Dichloroethane	U	ND		0.250	1.00	ug/kg	1				
1,2-Dichloropropane	U	ND		0.300	1.00	ug/kg	1				
1,3,5-Trimethylbenzene	U	ND		0.200	1.00	ug/kg	1				
1,3-Dichlorobenzene	U	ND		0.200	1.00	ug/kg	1				
1,3-Dichloropropane	U	ND		0.300	1.00	ug/kg	1				
1,4-Dichlorobenzene	U	ND		0.200	1.00	ug/kg	1				
2,2-Dichloropropane	U	ND		0.300	1.00	ug/kg	1				
2-Butanone	U	ND		1.70	5.00	ug/kg	1				
2-Chlorotoluene	U	ND		0.200	1.00	ug/kg	1				
2-Hexanone	U	ND		1.52	5.00	ug/kg	1				
4-Chlorotoluene	U	ND		0.240	1.00	ug/kg	1				
4-Isopropyltoluene	U	ND		0.250	1.00	ug/kg	1				
4-Methyl-2-pentanone	U	ND		1.09	5.00	ug/kg	1				
Acetone	U	ND		2.58	5.00	ug/kg	1				
Benzene	U	ND		0.330	1.00	ug/kg	1				
Bromobenzene	U	ND		0.200	1.00	ug/kg	1				
Bromochloromethane	U	ND		0.500	1.00	ug/kg	1				
Bromodichloromethane	U	ND		0.200	1.00	ug/kg	1				
Bromoform	U	ND		0.300	1.00	ug/kg	1				
Bromomethane	U	ND		0.500	1.00	ug/kg	1				
Carbon disulfide	U	ND		1.25	5.00	ug/kg	1				
Carbon tetrachloride	U	ND		0.200	1.00	ug/kg	1				
Chlorobenzene	U	ND		0.200	1.00	ug/kg	1				
Chloroethane	U	ND		0.500	1.00	ug/kg	1				

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Project: **LANL ER Project**

Report Date: January 4, 2006

Client Sample ID: RE73-06-66448
Sample ID: 152616002
Project: LANL00600
Client ID: LANL006

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal											
GEL 8260B Method List Soil Fed											
Chloroform	U	ND		0.200	1.00	ug/kg	1				
Chloromethane	U	ND		0.500	1.00	ug/kg	1				
Dibromochloromethane	U	ND		0.300	1.00	ug/kg	1				
Dibromomethane	U	ND		0.300	1.00	ug/kg	1				
Dichlorodifluoromethane	U	ND		0.500	1.00	ug/kg	1				
Ethylbenzene	U	ND		0.200	1.00	ug/kg	1				
Iodomethane	U	ND		1.67	5.00	ug/kg	1				
Isopropylbenzene	U	ND		0.200	1.00	ug/kg	1				
Methylene chloride	U	ND		2.00	5.00	ug/kg	1				
Styrene	U	ND		0.200	1.00	ug/kg	1				
Tetrachloroethylene	U	ND		0.200	1.00	ug/kg	1				
Toluene	J	0.427		0.290	1.00	ug/kg	1				
Trichloroethylene	U	ND		0.250	1.00	ug/kg	1				
Trichlorofluoromethane	U	ND		0.500	1.00	ug/kg	1				
1,1,2-Trichloro-1,2,2-Trifluoroethane	U	ND		1.00	5.00	ug/kg	1				
Vinyl chloride	U	ND		0.500	1.00	ug/kg	1				
cis-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/kg	1				
cis-1,3-Dichloropropylene	U	ND		0.200	1.00	ug/kg	1				
m,p-Xylenes	U	ND		0.250	2.00	ug/kg	1				
n-Butylbenzene	U	ND		0.200	1.00	ug/kg	1				
n-Propylbenzene	U	ND		0.200	1.00	ug/kg	1				
o-Xylene	U	ND		0.200	1.00	ug/kg	1				
sec-Butylbenzene	U	ND		0.200	1.00	ug/kg	1				
tert-Butylbenzene	U	ND		0.200	1.00	ug/kg	1				
trans-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/kg	1				
trans-1,3-Dichloropropylene	U	ND		0.300	1.00	ug/kg	1				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
GL-RAD-A-026	Laboratory sample composite				490520
SW846 5030	Volatile 5030 Solid Prep	TLW	01/03/06	2032	491531
SW846 8330 PREP	SW846 8330 Explosives Extraction in Solids	JXC2	01/03/06	1045	491036

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	SW846 8321A Modified	
3	SW846 8260B	

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Client Sample ID: RE73-06-66448
Sample ID: 152616002

Project: LANL00600
Client ID: LANL006

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Bromofluorobenzene	GEL 8260B Method List Soil Fed	54.5	50.0	109	(62%-124%)
Dibromofluoromethane	GEL 8260B Method List Soil Fed	57.9	50.0	116	(74%-121%)
Toluene-d8	GEL 8260B Method List Soil Fed	51.7	50.0	103	(76%-121%)

Notes:
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R Sample results are rejected.
U Target analyte was analyzed for but not detected above the MDL or LOD.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
d The 2:1 depletion requirement was not met for this sample
h Sample preparation or preservation holding time exceeded.

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Report Date: January 4, 2006

Client Sample ID: RE73-06-66448
Sample ID: 152616002
Matrix: Misc Solid
Collect Date: 20-DEC-05 12:00
Receive Date: 22-DEC-05
Collector: Client

Project: LANL00600
Client ID: LANL006

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Explosives Federal												
SW846 8321A Modified Explosives by LC-MS/MS												
Semi-volatile Mass spec Organics Federal												
8270C/3550B App 9 BNA Soil Fed												
1,2,4-Trichlorobenzene	U	ND		66.7	333	ug/kg	1	EED	12/30/05	2114	490929	3
1,2-Dichlorobenzene	U	ND		66.7	333	ug/kg	1					
Azobenzene	U	ND		66.7	333	ug/kg	1					
1,3-Dichlorobenzene	U	ND		66.7	333	ug/kg	1					
1,4-Dichlorobenzene	U	ND		66.7	333	ug/kg	1					
2,4,5-Trichlorophenol	U	ND		66.7	333	ug/kg	1					
2,4,6-Trichlorophenol	U	ND		66.7	333	ug/kg	1					
2,4-Dichlorophenol	U	ND		66.7	333	ug/kg	1					
2,4-Dimethylphenol	U	ND		66.7	333	ug/kg	1					
2,4-Dinitrophenol	U	ND		127	667	ug/kg	1					
2,4-Dinitrotoluene	U	ND		33.3	333	ug/kg	1					
2,6-Dinitrotoluene	U	ND		33.3	333	ug/kg	1					
2-Chloronaphthalene	U	ND		11.7	33.3	ug/kg	1					
2-Chlorophenol	U	ND		66.7	333	ug/kg	1					
2-Methyl-4,6-dinitrophenol	U	ND		66.7	333	ug/kg	1					
2-Methylnaphthalene	U	ND		6.67	33.3	ug/kg	1					
2-Nitrophenol	U	ND		33.3	333	ug/kg	1					
3,3'-Dichlorobenzidine	U	ND		100	333	ug/kg	1					
4-Bromophenylphenylether	U	ND		33.3	333	ug/kg	1					
4-Chloro-3-methylphenol	U	ND		33.3	333	ug/kg	1					
4-Chloroaniline	U	ND		66.7	333	ug/kg	1					
4-Chlorophenylphenylether	U	ND		33.3	333	ug/kg	1					
4-Nitrophenol	U	ND		66.7	333	ug/kg	1					
Acenaphthene	U	ND		11.1	33.3	ug/kg	1					
Acenaphthylene	U	ND		10.0	33.3	ug/kg	1					
Aniline	U	ND		117	333	ug/kg	1					
Anthracene	U	ND		6.67	33.3	ug/kg	1					
Benzo(a)anthracene	U	ND		10.0	33.3	ug/kg	1					
Benzo(a)pyrene	U	ND		10.0	33.3	ug/kg	1					
Benzo(b)fluoranthene	U	ND		10.0	33.3	ug/kg	1					
Benzo(ghi)perylene	U	ND		10.0	33.3	ug/kg	1					
Benzo(k)fluoranthene	U	ND		10.0	33.3	ug/kg	1					
Benzoic acid	U	ND		167	667	ug/kg	1					
Benzyl alcohol	U	ND		100	333	ug/kg	1					
Butylbenzylphthalate	U	ND		66.7	333	ug/kg	1					
Chrysene	U	ND		10.0	33.3	ug/kg	1					

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Client Sample ID: RE73-06-66448
Sample ID: 152616002

Project: LANL00600
Client ID: LANL006

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Semi-volatile Mass spec Organics Federal											
8270C/3550B App 9 BNA Soil Fed											
Di-n-butylphthalate	U	ND		33.3	333	ug/kg	1				
Di-n-octylphthalate	U	ND		66.7	333	ug/kg	1				
Dibenzo(a,h)anthracene	U	ND		10.0	33.3	ug/kg	1				
Dibenzofuran	U	ND		66.7	333	ug/kg	1				
Diethylphthalate	U	ND		66.7	333	ug/kg	1				
Dimethylphthalate	U	ND		66.7	333	ug/kg	1				
Diphenylamine	U	ND		66.7	333	ug/kg	1				
Fluoranthene	U	ND		10.0	33.3	ug/kg	1				
Fluorene	U	ND		10.0	33.3	ug/kg	1				
Hexachlorobenzene	U	ND		66.7	333	ug/kg	1				
Hexachlorobutadiene	U	ND		66.7	333	ug/kg	1				
Hexachlorocyclopentadiene	U	ND		66.7	333	ug/kg	1				
Hexachloroethane	U	ND		66.7	333	ug/kg	1				
Indeno(1,2,3-cd)pyrene	U	ND		10.0	33.3	ug/kg	1				
Isophorone	U	ND		66.7	333	ug/kg	1				
N-Methyl-N-nitrosomethylamine	U	ND		66.7	333	ug/kg	1				
N-Nitrosodipropylamine	U	ND		66.7	333	ug/kg	1				
Naphthalene	U	ND		10.0	33.3	ug/kg	1				
Nitrobenzene	U	ND		66.7	333	ug/kg	1				
Pentachlorophenol	U	ND		66.7	333	ug/kg	1				
Phenanthrene	U	ND		10.0	33.3	ug/kg	1				
Phenol	U	ND		66.7	333	ug/kg	1				
Pyrene	U	ND		10.5	33.3	ug/kg	1				
Pyridine	U	ND		66.7	333	ug/kg	1				
bis(2-Chloroethoxy)methane	U	ND		66.7	333	ug/kg	1				
bis(2-Chloroethyl) ether	U	ND		66.7	333	ug/kg	1				
bis(2-Chloroisopropyl)ether	U	ND		66.7	333	ug/kg	1				
bis(2-Ethylhexyl)phthalate	U	ND		66.7	167	ug/kg	1				
m,p-Cresols	U	ND		133	333	ug/kg	1				
3-Nitroaniline	U	ND		66.7	333	ug/kg	1				
o-Cresol	U	ND		66.7	333	ug/kg	1				
2-Nitroaniline	U	ND		66.7	333	ug/kg	1				
4-Nitroaniline	U	ND		66.7	333	ug/kg	1				
Volatile Organics Federal											
GEL 8260B Method List Soil Fed											

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
GL-RAD-A-026	Laboratory sample composite				490520
SW846 3550B	3550B BNA Soil Prep-8270C Appendix 9 Fed	JPB	12/30/05	1229	490928

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Report Date: January 4, 2006

Client Sample ID: RE73-06-66448
Sample ID: 152616002

Project: LANL00600
Client ID: LANL006

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
SW846 5030	Volatile 5030 Solid Prep				TLW	01/03/06	2032	491531			
SW846 8330 PREP	SW846 8330 Explosives Extraction in Solids				JXC2	01/03/06	1045	491036			

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	
2	SW846 8321A Modified	
3	SW846 8270C	
4	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2,4,6-Tribromophenol	8270C/3550B App 9 BNA Soil Fed	1820	3330	55	(35%-120%)
2-Fluorobiphenyl	8270C/3550B App 9 BNA Soil Fed	1210	1670	73	(50%-113%)
2-Fluorophenol	8270C/3550B App 9 BNA Soil Fed	2130	3330	64	(40%-105%)
Nitrobenzene-d5	8270C/3550B App 9 BNA Soil Fed	1200	1670	72	(42%-114%)
Phenol-d5	8270C/3550B App 9 BNA Soil Fed	2060	3330	62	(46%-100%)
p-Terphenyl-d14	8270C/3550B App 9 BNA Soil Fed	1270	1670	76	(44%-125%)

Notes:
The Qualifiers in this report are defined as follows :

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D Sample has been diluted and reanalyzed after initially exceeding inst. calibration range
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value.
P The response between the confirmation and the primary columns is >40% Different.
R Sample results are rejected.
U Target analyte was analyzed for but not detected above the MDL or LOD.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
d The 2:1 depletion requirement was not met for this sample
h Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

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Report Date: January 4, 2006

Client Sample ID: RE73-06-66448
Sample ID: 152616002

Project: LANL00600
Client ID: LANL006

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

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Reviewed by

Attachment E
Part 2

GC/MS VOLATILE ANALYSIS

GC/MS Volatile Organics
Los Alamos National Laboratory (LANL)
SDG 4248S

Method/Analysis Information

Procedure:	Volatile Organic Compounds (VOC) by Gas Chromatography/Mass Spectrometer
Analytical Method:	SW846 8260B
Prep Method:	SW846 5030
Laboratory sample composite Method:	GL-RAD-A-026
Analytical Batch Number:	491532
Prep Batch Number:	491531
Laboratory sample composite Batch Number:	490520

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
152616001	RE73-06-66447
152616002	RE73-06-66448
1201004655	Method Blank (MB)
1201004656	Laboratory Control Sample (LCS)
1201004659	Laboratory Control Sample (LCS)
1201004657	152616001(RE73-06-66447)Matrix Spike(MS)
1201004658	152616001(RE73-06-66447)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

The MB analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

Surrogate recoveries, in all samples and quality control samples were within the acceptance limits.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

Sample 152616001(RE73-06-66447)was designated for matrix spike analyses for this SDG.

Matrix Spike (MS) Recovery Statement

The MS recoveries for this SDG were not within the required acceptance limits. The MSD recovered in a similar manner. See NCR 281420.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries for this SDG were not within the required acceptance limits. The MS recovered in a similar manner. See NCR 281420.

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. The samples in this SDG were loaded onto the instrument on the last day of holding. The MS and MSD were injected after the holding time expired. See NCR 281420.

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 # 281420 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.

The laboratory is in the process of adding an additional surrogate compound. Currently the compound appears as a tentatively identified compound (TIC) in the sample library search. The laboratory eliminated this peak as a TIC from the Form 1.

Additional Comments
Additional comments were not required for this SDG.

System Configuration

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

Instrument ID	System Configuration	Column ID	Column Description	P & T Trap
VOA9.I	HP6890/HP5973	RESTEK	RTX-Volatiles, 30m x 0.25 mm, 1.0 um	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: 01/07/06

Roadmap for LANL 4248S VOA

This roadmap was analyzed by Tammy Woodie on 01-04-2006, 15:19.
This roadmap was reviewed by Jeffrey Wilkin on 01-04-2006, 18:57.
This roadmap was packaged by LySandra Gathers on 01-06-2006, 13:32.
This roadmap was validated by Erin Haubert on 01-06-2006, 14:11.

Sample

exclude	manual	datafile	smpid	clientid	injdate	injtime	sublist	dilution	comment
■	N	/chem/VOA1.i/010306v1.b/1r126.d	152616002		03-JAN-2006	20:42	CALsubL+.sub	1	
■	N	/chem/VOA1.i/010306v1.b/1r129.d	152616001		03-JAN-2006	21:10	CALsubL+.sub	1	
■	N	/chem/VOA9.i/010306v9.b/9r110.d	152616001	RE73-06-66447	03-JAN-2006	22:46	4248S.sub	1	POSSIBLE CARRYOVER
□	N	/chem/VOA9.i/010306v9.b/9r111.d	152616002	RE73-06-66448	03-JAN-2006	23:13	4248S.sub	1	
□	N	/chem/VOA9.i/010306v9.b/9r112.d	152616001	RE73-06-66447	03-JAN-2006	23:43	4248S.sub	1	

QC Sample

exclude	manual	datafile	smpid	clientid	sampletype	injdate	injtime	sublist	dilution	comment
□	N	/chem/VOA9.i/010306v9.b/9r104SHLANL.d	1201004659	VBLK01SLCS	lcs	03-JAN-2006	19:45	4248S.sub	1	
□	N	/chem/VOA9.i/010306v9.b/9r107LANL.d	1201004655	VBLK01	mb	03-JAN-2006	21:08	4248S.sub	1	
□	N	/chem/VOA9.i/010306v9.b/9r108LANL.d	1201004656	VBLK01LCS	lcs	03-JAN-2006	21:30	4248S.sub	1	
□	N	/chem/VOA9.i/010306v9.b/9r113.d	1201004657	RE73-06-66447MS	ms	04-JAN-2006	00:10	4248S.sub	1	
□	N	/chem/VOA9.i/010306v9.b/9r114.d	1201004658	RE73-06-66447MSD	msd	04-JAN-2006	00:38	4248S.sub	1	

SAMPLE DATA SUMMARY

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RE73-06-66447

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

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 4248S

Matrix: (soil/water) SOIL Lab Sample ID: 152616001

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 9R112

Level: (low/med) LOW Date Received: 12/22/05

% Moisture: not dec. _____ Date Analyzed: 01/03/06

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/KG	Q
75-71-8	Dichlorodifluoromethane	1.0	U
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
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethylene	1.0	U
67-64-1	Acetone	45.5	
76-13-1	Trichlorotrifluoroethane	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	26.7	
156-60-5	trans-1,2-Dichloroethylene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	2.4	J
156-59-2	cis-1,2-Dichloroethylene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropylene	1.0	U
108-10-1	4-Methyl-2-pentanone	3.7	J
108-88-3	Toluene	0.35	J
10061-02-6	trans-1,3-Dichloropropylene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RE73-06-66447

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

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 4248S

Matrix: (soil/water) SOIL Lab Sample ID: 152616001

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 9R112

Level: (low/med) LOW Date Received: 12/22/05

% Moisture: not dec. _____ Date Analyzed: 01/03/06

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/KG	Q
142-28-9	1,3-Dichloropropane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethylene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
100-41-4	Ethylbenzene	1.2	
95-47-6	o-Xylene	1.3	
	m,p-Xylenes	4.9	
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-86-1	Bromobenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RE73-06-66447

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 4248S

Matrix: (soil/water) SOIL Lab Sample ID: 152616001

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 9R112

Level: (low/med) LOW Date Received: 12/22/05

% Moisture: not dec. _____ Date Analyzed: 01/03/06

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/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RE73-06-66448

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

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 4248S

Matrix: (soil/water) SOIL Lab Sample ID: 152616002

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 9R111

Level: (low/med) LOW Date Received: 12/22/05

% Moisture: not dec. _____ Date Analyzed: 01/03/06

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/KG	Q
75-71-8	Dichlorodifluoromethane	1.0	U
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
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethylene	1.0	U
67-64-1	Acetone	5.0	U
76-13-1	Trichlorotrifluoroethane	5.0	U
74-88-4	Iodomethane	5.0	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
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethylene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropylene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.43	J
10061-02-6	trans-1,3-Dichloropropylene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RE73-06-66448

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

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 4248S

Matrix: (soil/water) SOIL Lab Sample ID: 152616002

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 9R111

Level: (low/med) LOW Date Received: 12/22/05

% Moisture: not dec. _____ Date Analyzed: 01/03/06

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/KG	Q
142-28-9	1,3-Dichloropropane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethylene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
----------	m,p-Xylenes	2.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-86-1	Bromobenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RE73-06-66448

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 4248S

Matrix: (soil/water) SOIL Lab Sample ID: 152616002

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 9R111

Level: (low/med) LOW Date Received: 12/22/05

% Moisture: not dec. _____ Date Analyzed: 01/03/06

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

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	8.28	29.2	J
2.				
3.				
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QUALITY CONTROL SUMMARY

2B
SOIL 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.: 4248S

Level:(low/med) LOW

	EPA SAMPLE NO.	SMC1 (DBF)#	SMC2 (TOL)#	SMC3 (BFB)#	OTHER	TOT OUT
01	VBLK01SLCS	118	109	114		0
02	VBLK01	111	105	109		0
03	VBLK01LCS	112	106	101		0
04	RE73-06-66448	116	103	109		0
05	RE73-06-66447	115	105	107		0
06	RE73-06-66447MS	110	105	104		0
07	RE73-06-66447MSD	111	104	104		0
08						
09						
10						
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30						

		QC LIMITS
SMC1 (DBF)	= Dibromofluoromethane	(74-121)
SMC2 (TOL)	= Toluene-d8	(76-121)
SMC3 (BFB)	= Bromofluorobenzene	(62-124)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3B
SOIL 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.: 4248S

Matrix Spike - EPA Sample No.: VBLK01 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50.0	0.0	28.2	56	48-138
Chloromethane	50.0	0.0	40.1	80	50-130
Vinyl chloride	50.0	0.0	37.8	76	58-134
Bromomethane	50.0	0.0	42.1	84	59-125
Chloroethane	50.0	0.0	43.2	86	69-135
Trichlorofluoromethane	50.0	0.0	46.0	92	62-139
1,1-Dichloroethylene	50.0	0.0	43.3	87	73-120
Acetone	250	0.0	311	124	62-129
Iodomethane	250	0.0	236	94	78-138
Carbon disulfide	250	0.0	230	92	78-143
Methylene chloride	50.0	0.0	46.9	94	75-130
trans-1,2-Dichloroethyl	50.0	0.0	43.6	87	80-129
1,1-Dichloroethane	50.0	0.0	48.8	98	75-125
2-Butanone	250	0.0	327	131	61-133
cis-1,2-Dichloroethylen	50.0	0.0	48.2	96	81-122
2,2-Dichloropropane	50.0	0.0	57.6	115	76-135
Bromochloromethane	50.0	0.0	48.7	97	79-125
Chloroform	50.0	0.0	48.9	98	80-120
1,1,1-Trichloroethane	50.0	0.0	54.7	109	71-124
1,1-Dichloropropene	50.0	0.0	44.6	89	78-123
Carbon tetrachloride	50.0	0.0	51.7	103	75-134
1,2-Dichloroethane	50.0	0.0	48.2	96	73-124
Benzene	50.0	0.0	45.1	90	75-125
Trichloroethylene	50.0	0.0	46.6	93	79-125
1,2-Dichloropropane	50.0	0.0	49.6	99	75-120
Dibromomethane	50.0	0.0	50.9	102	81-123
Bromodichloromethane	50.0	0.0	57.1	114	87-130
cis-1,3-Dichloropropyle	50.0	0.0	58.4	117	80-124

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

* Values outside of QC limits

COMMENTS: _____

3B
SOIL 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.: 4248S

Matrix Spike - EPA Sample No.: VBLK01 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
4-Methyl-2-pentanone	250	0.0	281	112	63-136
Toluene	50.0	0.0	43.0	86	78-125
trans-1,3-Dichloropropy	50.0	0.0	50.9	102	74-122
1,1,2-Trichloroethane	50.0	0.0	48.9	98	78-120
1,3-Dichloropropane	50.0	0.0	49.3	99	77-120
2-Hexanone	250	0.0	287	115	62-141
Tetrachloroethylene	50.0	0.0	47.0	94	69-127
Dibromochloromethane	50.0	0.0	51.0	102	75-130
1,2-Dibromoethane	50.0	0.0	54.0	108	78-121
Chlorobenzene	50.0	0.0	45.4	91	80-125
1,1,1,2-Tetrachloroetha	50.0	0.0	51.0	102	82-124
Ethylbenzene	50.0	0.0	44.5	89	79-125
o-Xylene	50.0	0.0	48.3	97	80-122
m,p-Xylenes	100	0.0	90.8	91	80-119
Styrene	50.0	0.0	48.8	98	79-119
Bromoform	50.0	0.0	54.3	109	67-135
Isopropylbenzene	50.0	0.0	43.7	87	72-125
1,1,2,2-Tetrachloroetha	50.0	0.0	48.4	97	73-126
1,2,3-Trichloropropane	50.0	0.0	55.3	111	69-124
Bromobenzene	50.0	0.0	45.8	92	80-121
n-Propylbenzene	50.0	0.0	43.6	87	76-124
2-Chlorotoluene	50.0	0.0	43.5	87	74-118
1,3,5-Trimethylbenzene	50.0	0.0	45.4	91	74-118
1,2,4-Trimethylbenzene	50.0	0.0	45.1	90	75-118
4-Chlorotoluene	50.0	0.0	46.2	92	75-120
tert-Butylbenzene	50.0	0.0	46.3	93	76-122
sec-Butylbenzene	50.0	0.0	45.8	92	76-124
4-Isopropyltoluene	50.0	0.0	48.1	96	77-126

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

* Values outside of QC limits

COMMENTS: _____

3B
SOIL 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.: 4248S

Matrix Spike - EPA Sample No.: VBLK01 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,3-Dichlorobenzene	50.0	0.0	47.5	95	77-121
1,4-Dichlorobenzene	50.0	0.0	46.9	94	77-121
n-Butylbenzene	50.0	0.0	47.3	95	75-130
1,2-Dichlorobenzene	50.0	0.0	45.4	91	79-119
1,2-Dibromo-3-chloropro	50.0	0.0	64.2	128	60-133

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 61 outside limits

COMMENTS:

3B
SOIL 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.: 4248S

Matrix Spike - EPA Sample No.: VBLK01 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Trichlorotrifluoroethan	250	0.0	258	103	58-138

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 1 outside limits

COMMENTS:

3B

SOIL 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.: 4248S

Matrix Spike - EPA Sample No.: RE73-06-6644 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50.0	0.0	26.7	53	44-140
Chloromethane	50.0	0.0	37.4	75	50-130
Vinyl chloride	50.0	0.0	35.8	72	51-128
Bromomethane	50.0	0.0	40.2	80	56-125
Chloroethane	50.0	0.0	41.8	84	54-128
Trichlorofluoromethane	50.0	0.0	41.7	83	53-127
1,1-Dichloroethylene	50.0	0.0	47.8	96	57-118
Acetone	250	45.5	350	122	50-130
Iodomethane	250	0.0	218	87	64-137
Carbon disulfide	250	0.0	145	58*	59-135
Methylene chloride	50.0	26.7	92.4	131*	63-130
trans-1,2-Dichloroethyl	50.0	0.0	41.3	83	59-126
1,1-Dichloroethane	50.0	0.0	47.1	94	60-130
2-Butanone	250	2.4	306	121	50-131
cis-1,2-Dichloroethylen	50.0	0.0	45.1	90	61-123
2,2-Dichloropropane	50.0	0.0	56.5	113	57-134
Bromochloromethane	50.0	0.0	46.5	93	63-130
Chloroform	50.0	0.0	51.8	104	64-120
1,1,1-Trichloroethane	50.0	0.0	50.5	101	58-118
1,1-Dichloropropene	50.0	0.0	42.4	85	59-126
Carbon tetrachloride	50.0	0.0	20.2	40*	60-122
1,2-Dichloroethane	50.0	0.0	46.7	93	59-122
Benzene	50.0	0.0	44.1	88	60-125
Trichloroethylene	50.0	0.0	44.4	89	56-125
1,2-Dichloropropane	50.0	0.0	47.7	95	60-140
Dibromomethane	50.0	0.0	48.4	97	68-124
Bromodichloromethane	50.0	0.0	18.8	38*	66-130
cis-1,3-Dichloropropyle	50.0	0.0	31.7	63	59-123

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

* Values outside of QC limits

COMMENTS: _____

3B

SOIL 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.: 4248S

Matrix Spike - EPA Sample No.: RE73-06-6644 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
4-Methyl-2-pentanone	250	3.7	270	106	54-130
Toluene	50.0	0.35	41.1	82	60-125
trans-1,3-Dichloropropy	50.0	0.0	20.6	41*	58-120
1,1,2-Trichloroethane	50.0	0.0	46.9	94	66-118
1,3-Dichloropropane	50.0	0.0	46.4	93	66-120
2-Hexanone	250	0.0	275	110	50-136
Tetrachloroethylene	50.0	0.0	45.0	90	53-122
Dibromochloromethane	50.0	0.0	12.7	25*	60-126
1,2-Dibromoethane	50.0	0.0	49.9	100	65-121
Chlorobenzene	50.0	0.0	42.3	85	62-118
1,1,1,2-Tetrachloroetha	50.0	0.0	35.3	71	67-123
Ethylbenzene	50.0	1.2	43.3	84	47-123
o-Xylene	50.0	1.3	45.6	89	60-121
m,p-Xylenes	100	4.9	88.9	84	60-116
Styrene	50.0	0.0	44.8	90	60-118
Bromoform	50.0	0.0	10.0	20*	54-131
Isopropylbenzene	50.0	0.0	40.9	82	57-123
1,1,2,2-Tetrachloroetha	50.0	0.0	46.6	93	59-125
1,2,3-Trichloropropane	50.0	0.0	52.8	106	60-126
Bromobenzene	50.0	0.0	43.8	88	62-125
n-Propylbenzene	50.0	0.0	39.9	80	60-125
2-Chlorotoluene	50.0	0.0	41.1	82	58-124
1,3,5-Trimethylbenzene	50.0	0.0	41.0	82	58-121
1,2,4-Trimethylbenzene	50.0	0.0	41.9	84	57-120
4-Chlorotoluene	50.0	0.0	42.2	84	58-124
tert-Butylbenzene	50.0	0.0	41.9	84	60-126
sec-Butylbenzene	50.0	0.0	39.5	79	60-124
4-Isopropyltoluene	50.0	0.0	42.2	84	58-128

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

* Values outside of QC limits

COMMENTS: _____

3B

SOIL 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.: 4248S

Matrix Spike - EPA Sample No.: RE73-06-6644 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,3-Dichlorobenzene	50.0	0.0	43.2	86	61-118
1,4-Dichlorobenzene	50.0	0.0	42.8	86	59-118
n-Butylbenzene	50.0	0.0	40.4	81	58-124
1,2-Dichlorobenzene	50.0	0.0	41.4	83	58-120
1,2-Dibromo-3-chloropro	50.0	0.0	39.8	80	51-132

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

* Values outside of QC limits

COMMENTS: _____

3B

SOIL 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.: 4248S

Matrix Spike - EPA Sample No.: RE73-06-6644 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50.0	25.4	51	4	30	44-140
Chloromethane	50.0	37.3	75	0	30	50-130
Vinyl chloride	50.0	34.4	69	4	30	51-128
Bromomethane	50.0	39.0	78	2	30	56-125
Chloroethane	50.0	41.4	83	1	30	54-128
Trichlorofluoromethane	50.0	40.8	82	1	30	53-127
1,1-Dichloroethylene	50.0	51.2	102	6	30	57-118
Acetone	250	313	107	13	30	50-130
Iodomethane	250	211	84	4	30	64-137
Carbon disulfide	250	134	54*	7	30	59-135
Methylene chloride	50.0	110	167*	24	30	63-130
trans-1,2-Dichloroethyl	50.0	41.8	84	1	30	59-126
1,1-Dichloroethane	50.0	47.5	95	1	30	60-130
2-Butanone	250	281	111	9	30	50-131
cis-1,2-Dichloroethylen	50.0	47.3	95	5	30	61-123
2,2-Dichloropropane	50.0	55.1	110	3	30	57-134
Bromochloromethane	50.0	46.9	94	1	30	63-130
Chloroform	50.0	51.0	102	2	30	64-120
1,1,1-Trichloroethane	50.0	50.0	100	1	30	58-118
1,1-Dichloropropene	50.0	41.8	84	1	30	59-126
Carbon tetrachloride	50.0	23.5	47*	16	30	60-122
1,2-Dichloroethane	50.0	44.6	89	4	30	59-122
Benzene	50.0	43.8	88	0	30	60-125
Trichloroethylene	50.0	45.6	91	2	30	56-125
1,2-Dichloropropane	50.0	48.2	96	1	30	60-140
Dibromomethane	50.0	45.6	91	6	30	68-124
Bromodichloromethane	50.0	16.7	33*	14	30	66-130
cis-1,3-Dichloropropyle	50.0	29.4	59*	6	30	59-123

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

* Values outside of QC limits

COMMENTS: _____

3B

SOIL 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.: 4248S

Matrix Spike - EPA Sample No.: RE73-06-6644 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4-Methyl-2-pentanone	250	252	99	7	30	54-130
Toluene	50.0	40.3	80	2	30	60-125
trans-1,3-Dichloropropy	50.0	17.6	35*	16	30	58-120
1,1,2-Trichloroethane	50.0	45.8	92	2	30	66-118
1,3-Dichloropropane	50.0	46.7	93	0	30	66-120
2-Hexanone	250	249	100	10	30	50-136
Tetrachloroethylene	50.0	42.5	85	6	30	53-122
Dibromochloromethane	50.0	11.0	22*	13	30	60-126
1,2-Dibromoethane	50.0	47.3	95	5	30	65-121
Chlorobenzene	50.0	42.5	85	0	30	62-118
1,1,1,2-Tetrachloroetha	50.0	30.7	61*	15	30	67-123
Ethylbenzene	50.0	42.8	83	1	30	47-123
o-Xylene	50.0	45.7	89	0	30	60-121
m,p-Xylenes	100	87.6	83	1	30	60-116
Styrene	50.0	44.2	88	2	30	60-118
Bromoform	50.0	8.8	18*	10	30	54-131
Isopropylbenzene	50.0	39.9	80	2	30	57-123
1,1,2,2-Tetrachloroetha	50.0	44.9	90	3	30	59-125
1,2,3-Trichloropropane	50.0	50.5	101	5	30	60-126
Bromobenzene	50.0	42.6	85	3	30	62-125
n-Propylbenzene	50.0	39.7	79	1	30	60-125
2-Chlorotoluene	50.0	40.5	81	1	30	58-124
1,3,5-Trimethylbenzene	50.0	41.0	82	0	30	58-121
1,2,4-Trimethylbenzene	50.0	41.5	83	1	30	57-120
4-Chlorotoluene	50.0	42.0	84	0	30	58-124
tert-Butylbenzene	50.0	41.8	84	0	30	60-126
sec-Butylbenzene	50.0	40.1	80	1	30	60-124
4-Isopropyltoluene	50.0	41.8	84	0	30	58-128

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

* Values outside of QC limits

COMMENTS:

3B
SOIL 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.: 4248S

Matrix Spike - EPA Sample No.: RE73-06-6644 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,3-Dichlorobenzene	50.0	42.7	85	1	30	61-118
1,4-Dichlorobenzene	50.0	42.4	85	1	30	59-118
n-Butylbenzene	50.0	41.0	82	1	30	58-124
1,2-Dichlorobenzene	50.0	41.3	83	0	30	58-120
1,2-Dibromo-3-chloropro	50.0	30.2	60	28	30	51-132

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

* Values outside of QC limits

RPD: 0 out of 61 outside limits
Spike Recovery: 16 out of 122 outside limits

COMMENTS: _____

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.: 4248S

Lab File ID: 9R107LANL Lab Sample ID: 1201004655

Date Analyzed: 01/03/06 Time Analyzed: 2108

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

Instrument ID: VOA9

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VBLK01SLCS	1201004659	9R104SHLANL	1945
02	VBLK01LCS	1201004656	9R108LANL	2130
03	RE73-06-66448	152616002	9R111	2313
04	RE73-06-66447	152616001	9R112	2343
05	RE73-06-66447MS	1201004657	9R113	0010
06	RE73-06-66447MSD	1201004658	9R114	0038
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08				
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FORM IV VOA

OLM03.0

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

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

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 4248S

Lab File ID: 9N101 BFB Injection Date: 12/05/05

Instrument ID: VOA9 BFB Injection Time: 2256

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.9
75	30.0 - 60.0% of mass 95	49.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.9
173	Less than 2.0% of mass 174	0.5 (0.7)1
174	50.0 - 100.0% of mass 95	74.8
175	5.0 - 9.0% of mass 174	4.2 (5.7)1
176	95.0 - 101.0% of mass 174	73.9 (98.8)1
177	5.0 - 9.0% of mass 176	5.0 (6.8)2

1-Value is % mass 174 2-Value is % mass 176

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	VSTD0005	W9VM051205-01	9N103	12/05/05	2349
02	VSTD001	W9VM051205-02	9N104	12/06/05	0016
03	VSTD005	W9VM051205-04	9N107	12/06/05	0136
04	VSTD010	W9VM051205-05	9N108	12/06/05	0204
05	VSTD020	W9VM051205-06	9N109	12/06/05	0230
06	VSTD050	W9VM051205-07	9N110	12/06/05	0257
07	VSTD100	W9VM051205-08	9N111	12/06/05	0324
08	VSTD005S	UVM051118-01	9N113	12/06/05	0417
09	VSTD010S	UVM051118-02	9N114	12/06/05	0443
10	VSTD025S	UVM051118-03	9N115	12/06/05	0510
11	VSTD050S	UVM051118-04	9N116	12/06/05	0537
12	VSTD100S	UVM051118-05	9N117	12/06/05	0603
13	VSTD250S	UVM051118-06	9N118	12/06/05	0631
14	VSTD500S	UVM051118-07	9N119	12/06/05	0657
15	VSTD050	W9VM051205-10	9N122	12/06/05	0818
16	VSTD250S	UVM051202-01A	9N124	12/06/05	0912
17					
18					
19					
20					
21					
22					

FORM V VOA OLM03.0

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

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

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 4248S

Lab File ID: 9R101 BFB Injection Date: 01/03/06

Instrument ID: VOA9 BFB Injection Time: 1823

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.5
75	30.0 - 60.0% of mass 95	48.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.3 (0.3)1
174	50.0 - 100.0% of mass 95	72.4
175	5.0 - 9.0% of mass 174	5.5 (7.6)1
176	95.0 - 101.0% of mass 174	72.7 (100.4)1
177	5.0 - 9.0% of mass 176	4.7 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

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	VSTD050	W9V060103-01	9R102	01/03/06	1851
02	VSTD250S	UVM051202-01B	9R104	01/03/06	1945
03	VBLK01SLCS	1201004659	9R104SHLANL	01/03/06	1945
04	VBLK01	1201004655	9R107LANL	01/03/06	2108
05	VBLK01LCS	1201004656	9R108LANL	01/03/06	2130
06	RE73-06-66448	152616002	9R111	01/03/06	2313
07	RE73-06-66447	152616001	9R112	01/03/06	2343
08	RE73-06-66447MS	1201004657	9R113	01/04/06	0010
09	RE73-06-66447MSD	1201004658	9R114	01/04/06	0038
10					
11					
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14					
15					
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22					

FORM V VOA OLM03.0

8A
VOLATILE 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.: 4248S

Lab File ID (Standard): 9R102 Date Analyzed: 01/03/06

Instrument ID: VOA9 Time Analyzed: 1851

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

		IS1(FLB) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	2062165	4.42	1446929	7.16	625042	10.09
	UPPER LIMIT	4124330	4.92	2893858	7.66	1250084	10.59
	LOWER LIMIT	1031082	3.92	723464	6.66	312521	9.59
	EPA SAMPLE NO.						
01	VBLK01SLCS	1980132	4.42	1371845	7.16	596212	10.09
02	VBLK01	1817806	4.43	1284681	7.16	538496	10.09
03	VBLK01LCS	1871699	4.42	1316850	7.16	613376	10.09
04	RE73-06-66448	1637260	4.43	1174909	7.17	490926	10.10
05	RE73-06-66447	1801554	4.42	1277693	7.17	551077	10.09
06	RE73-06-66447MS	1940863	4.42	1366112	7.16	630483	10.10
07	RE73-06-66447MSD	2017783	4.42	1435538	7.17	666536	10.09
08							
09							
10							
11							
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15							
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17							
18							
19							
20							
21							
22							

IS1 (FLB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

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

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

SAMPLE DATA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RE73-06-66447

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

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 4248S

Matrix: (soil/water) SOIL Lab Sample ID: 152616001

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 9R112

Level: (low/med) LOW Date Received: 12/22/05

% Moisture: not dec. _____ Date Analyzed: 01/03/06

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/KG	Q
75-71-8	Dichlorodifluoromethane	1.0	U
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
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethylene	1.0	U
67-64-1	Acetone	45.5	
76-13-1	Trichlorotrifluoroethane	5.0	U
74-88-4	Iodomethane	5.0	U
75-15-0	Carbon disulfide	5.0	U
75-09-2	Methylene chloride	26.7	
156-60-5	trans-1,2-Dichloroethylene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	2.4	J
156-59-2	cis-1,2-Dichloroethylene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropylene	1.0	U
108-10-1	4-Methyl-2-pentanone	3.7	J
108-88-3	Toluene	0.35	J
10061-02-6	trans-1,3-Dichloropropylene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RE73-06-66447

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

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 4248S

Matrix: (soil/water) SOIL Lab Sample ID: 152616001

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 9R112

Level: (low/med) LOW Date Received: 12/22/05

% Moisture: not dec. _____ Date Analyzed: 01/03/06

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/KG	Q
142-28-9	1,3-Dichloropropane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethylene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
100-41-4	Ethylbenzene	1.2	
95-47-6	o-Xylene	1.3	
	m,p-Xylenes	4.9	
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-86-1	Bromobenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RE73-06-66447

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 4248S

Matrix: (soil/water) SOIL Lab Sample ID: 152616001

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 9R112

Level: (low/med) LOW Date Received: 12/22/05

% Moisture: not dec. _____ Date Analyzed: 01/03/06

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/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
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23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

General Engineering Laboratories, LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA9.i/010306v9.b/9r112.d
Lab Smp Id: 152616001 Client Smp ID: RE73-06-66447
Inj Date : 03-JAN-2006 23:43
Operator : GRB2 Inst ID: VOA9.i
Smp Info : |152616001|491532|1|VOAF|1|
Misc Info : LANL 5.0G N/A
Comment :
Method : /chem/VOA9.i/010306v9.b/VOA9-8260B-120505.m
Meth Date : 03-Jan-2006 22:58 tcl Quant Type: ISTD
Cal Date : 06-DEC-2005 05:37 Cal File: 9n116.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4248S.sub
Target Version: 3.50
Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	0.00000	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 40 Fluorobenzene	96	4.423	4.424	(1.000)	1801554	50.0000	
* 61 Chlorobenzene-d5	117	7.167	7.164	(1.000)	1277693	50.0000	
* 86 1,4-Dichlorobenzene-d4	152	10.093	10.094	(1.000)	551077	50.0000	
$ 35 Dibromofluoromethane	113	3.865	3.865	(0.874)	516094	57.3373	57.3
$ 47 Toluene-d8	98	5.691	5.691	(0.794)	1835579	52.6119	52.6
$ 71 Bromofluorobenzene	95	8.566	8.566	(0.849)	624855	53.5419	53.5
10 Acetone	43	2.565	2.566	(0.580)	159827	45.4983	45.5
17 Methylene chloride	84	2.902	2.919	(0.656)	284605	26.6901	26.7
30 2-Butanone	43	3.509	3.503	(0.793)	10608	2.44583	2.4(a)
49 4-Methyl-2-pentanone	58	5.274	5.271	(0.736)	13688	3.72637	3.7(a)
50 Toluene	92	5.765	5.762	(0.804)	9049	0.35366	0.35(a)
58 Ethylbenzene	91	7.298	7.296	(1.018)	54067	1.21173	1.2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
63 m,p-Xylenes	106	7.391	7.392	(1.031)	84493	4.91036	4.9
64 o-Xylene	106	7.876	7.876	(1.099)	20733	1.26284	1.3

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

General Engineering Laboratories, LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA9.i/010306v9.b/9r112.d
Lab Smp Id: 152616001 Client Smp ID: RE73-06-66447
Inj Date : 03-JAN-2006 23:43
Operator : GRB2 Inst ID: VOA9.i
Smp Info : |152616001|491532|1|VOAF|1|
Misc Info : LANL 5.0G N/A
Comment :
Method : /chem/VOA9.i/010306v9.b/VOA9-8260B-120505.m
Meth Date : 03-Jan-2006 22:58 tcl Quant Type: ISTD
Cal Date : 06-DEC-2005 05:37 Cal File: 9n116.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4248S.sub
Target Version: 3.50
Processing Host: prdsvr07

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/VOA9.i/010306v9.b/9r112.d

Date : 03-JAN-2006 23:43

Client ID: RE73-06-66447

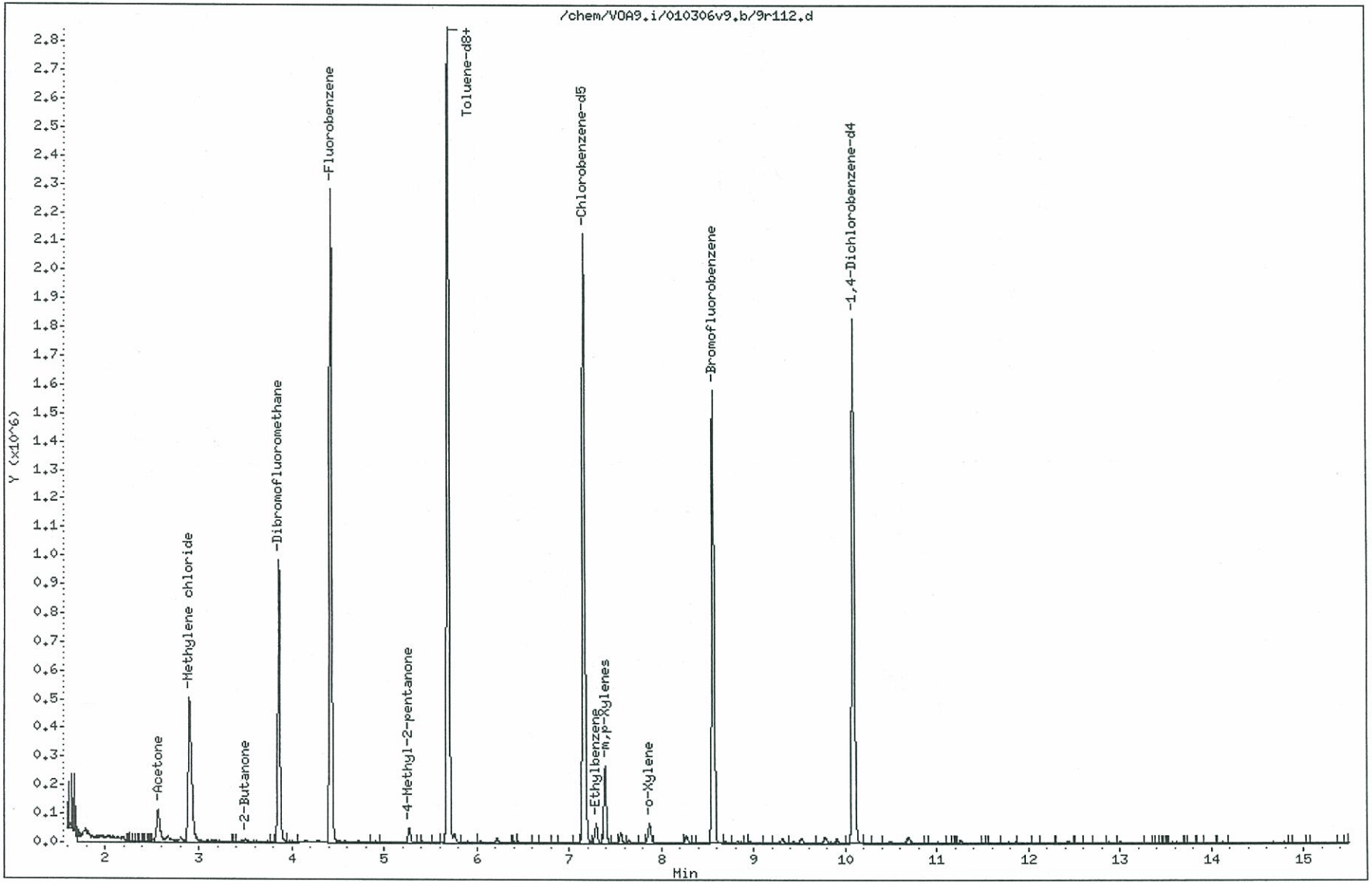
Sample Info: |1526160001|491532|1|VOAF|1|

Column phase: RTX-Volatiles

Instrument: VOA9.i

Operator: GRB2

Column diameter: 0.25



Data File: /chem/VOA9.i/010306v9.b/9r112.d

Date : 03-JAN-2006 23:43

Client ID: RE73-06-66447

Instrument: VOA9.i

Sample Info: |1526160001|491532|1|VOAF|1|

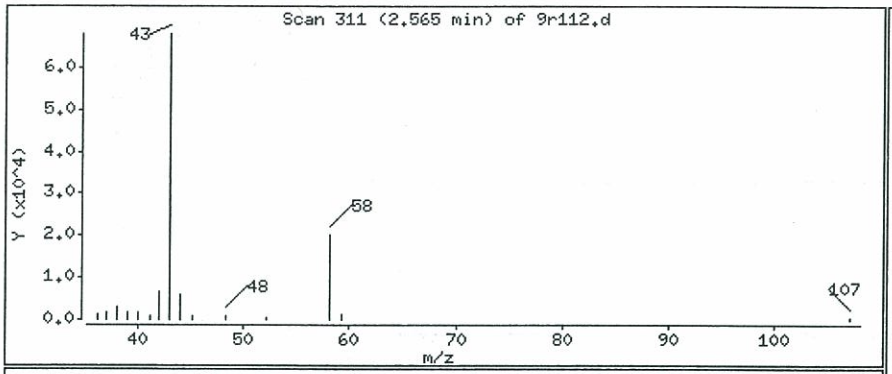
Operator: GRB2

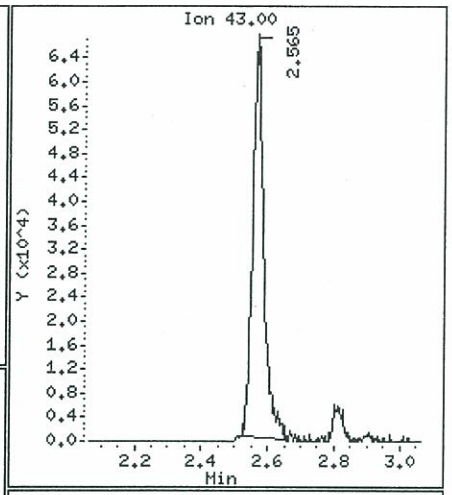
Column phase: RTX-Volatiles

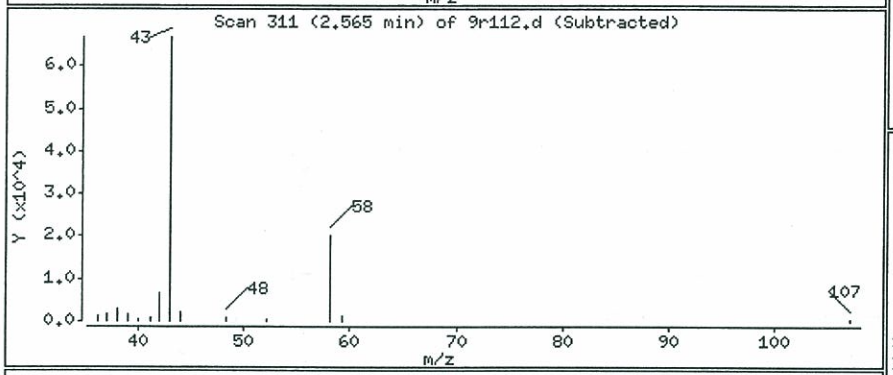
Column diameter: 0.25

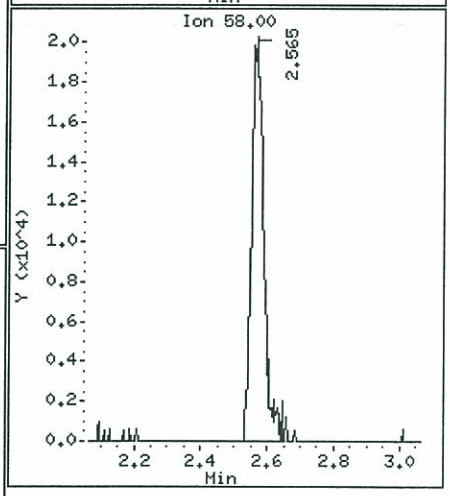
10 Acetone

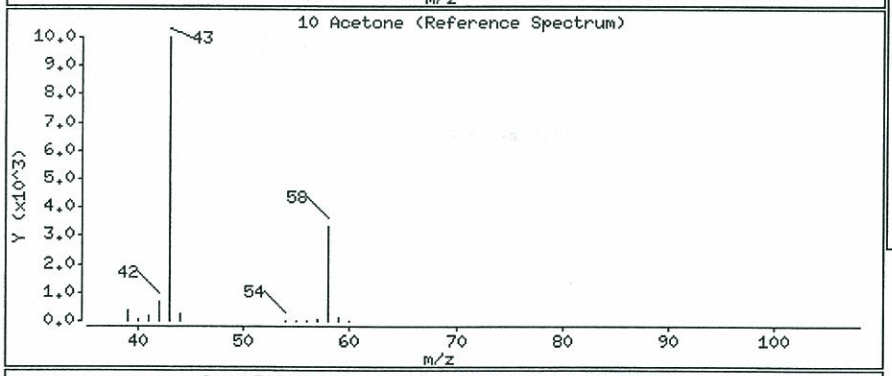
Concentration: 45.5 ug/Kg

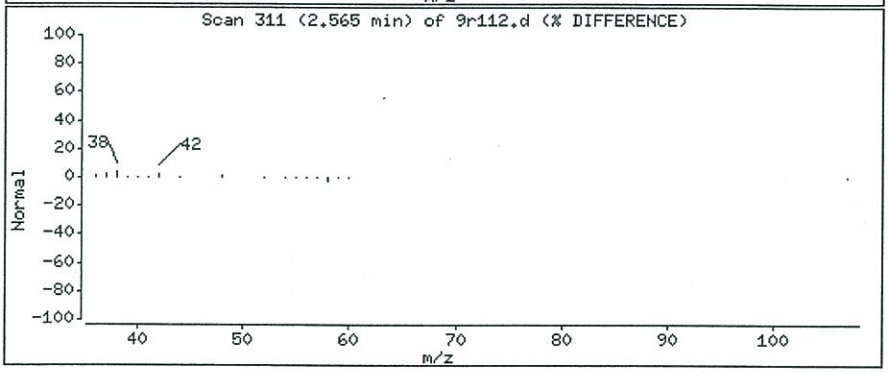












Data File: /chem/VOA9.i/010306v9.b/9r112.d

Date : 03-JAN-2006 23:43

Client ID: RE73-06-66447

Instrument: VOA9.i

Sample Info: |1526160011491532|1|VOAF|1|

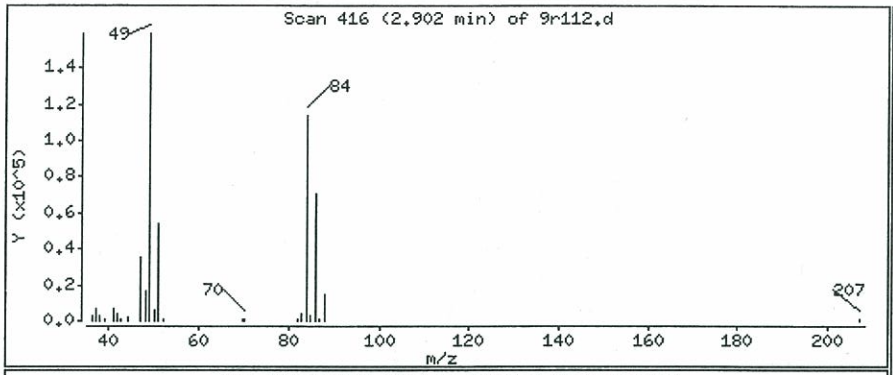
Operator: GRB2

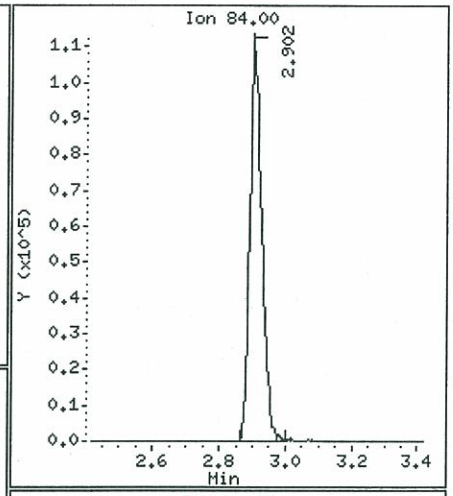
Column phase: RTX-Volatiles

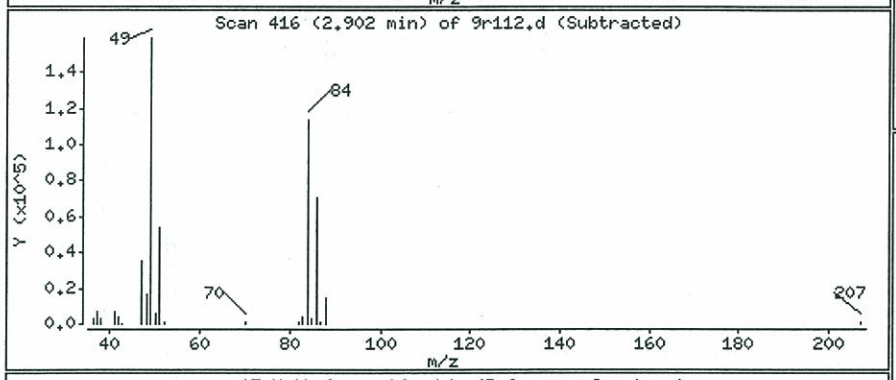
Column diameter: 0.25

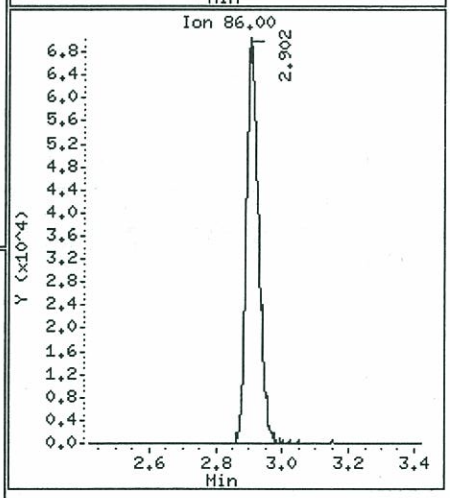
17 Methylene chloride

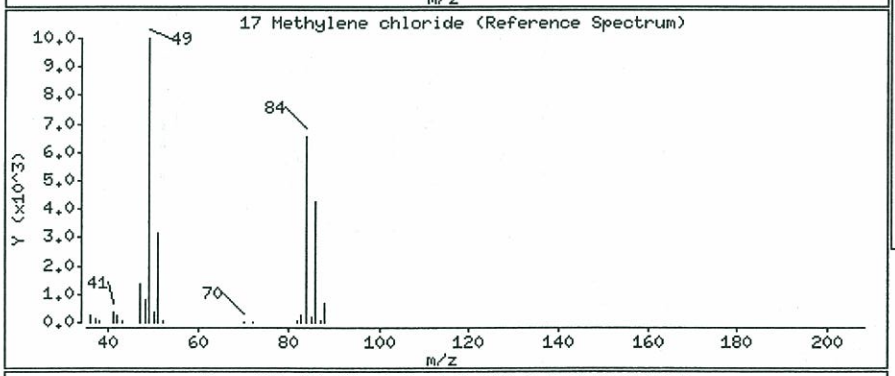
Concentration: 26.7 ug/Kg

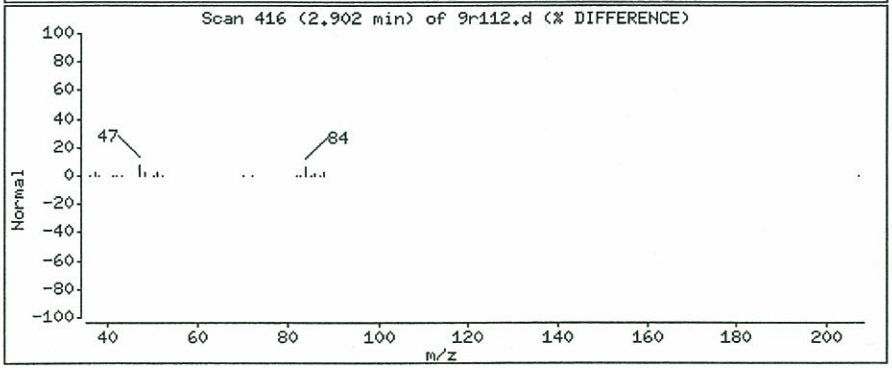












Data File: /chem/VOA9.i/010306v9.b/9r112.d

Date : 03-JAN-2006 23:43

Client ID: RE73-06-66447

Instrument: VOA9.i

Sample Info: |152616001|491532|1|VOAF|1|

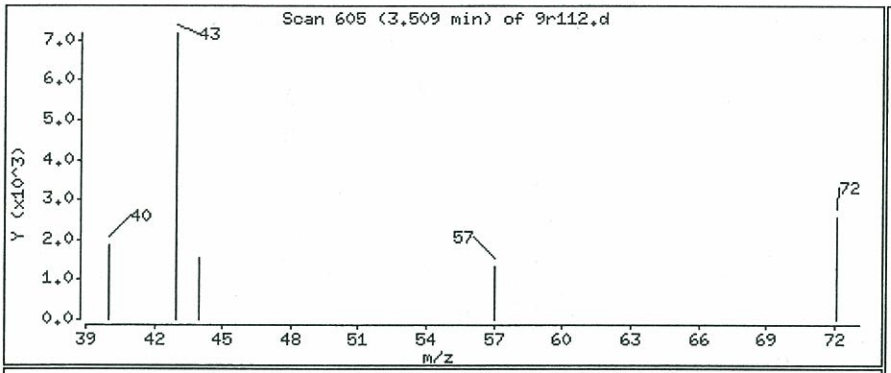
Operator: GRB2

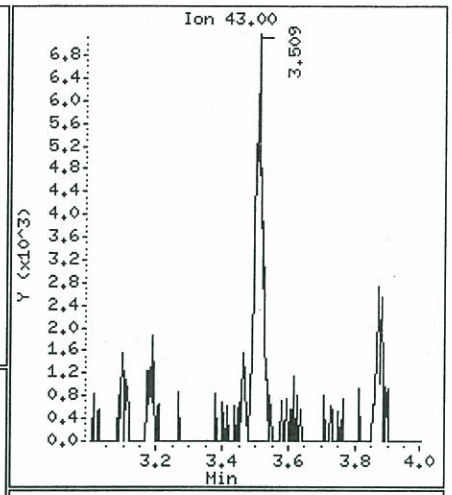
Column phase: RTX-Volatiles

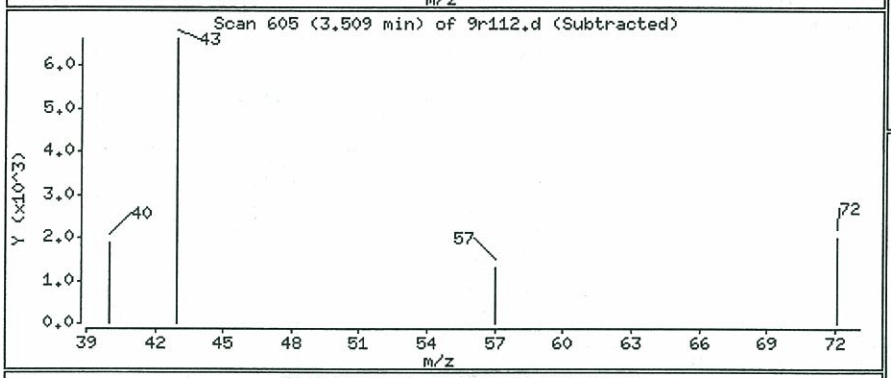
Column diameter: 0.25

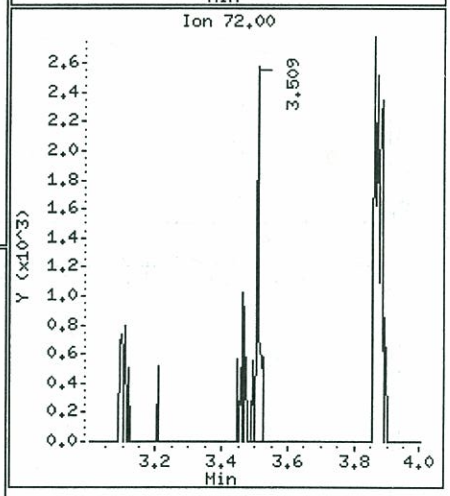
30 2-Butanone

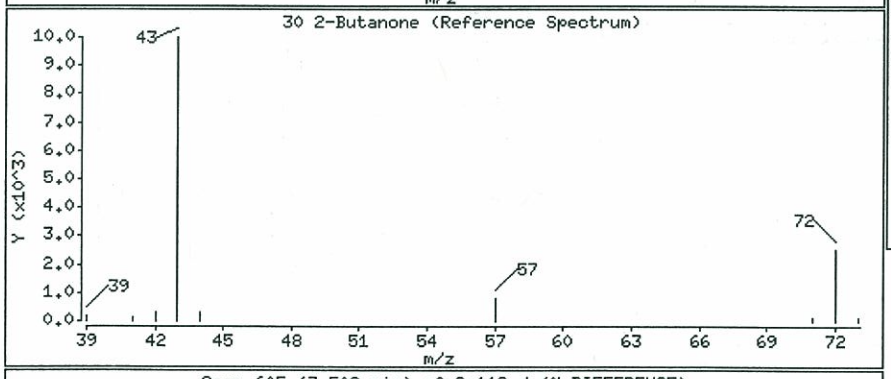
Concentration: 2.4 ug/Kg

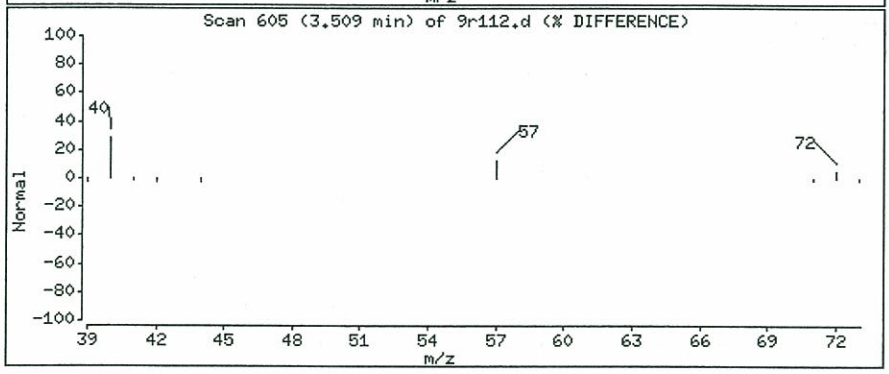












Data File: /chem/VOA9.i/010306v9.b/9r112.d

Date : 03-JAN-2006 23:43

Client ID: RE73-06-66447

Instrument: VOA9.i

Sample Info: |152616001|491532|1|VOAF|1|

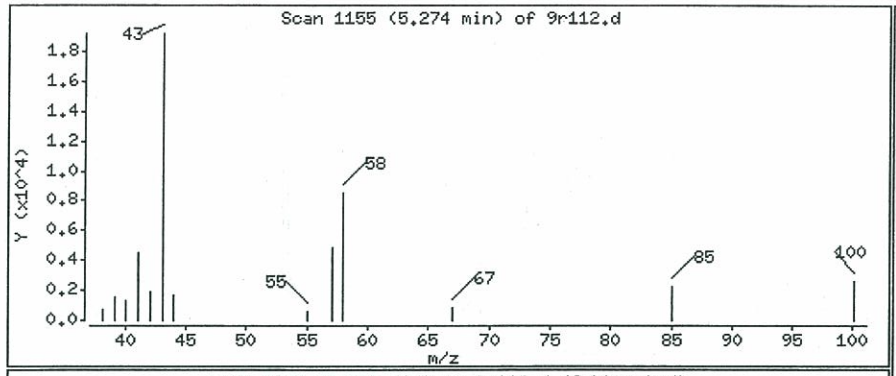
Operator: GRB2

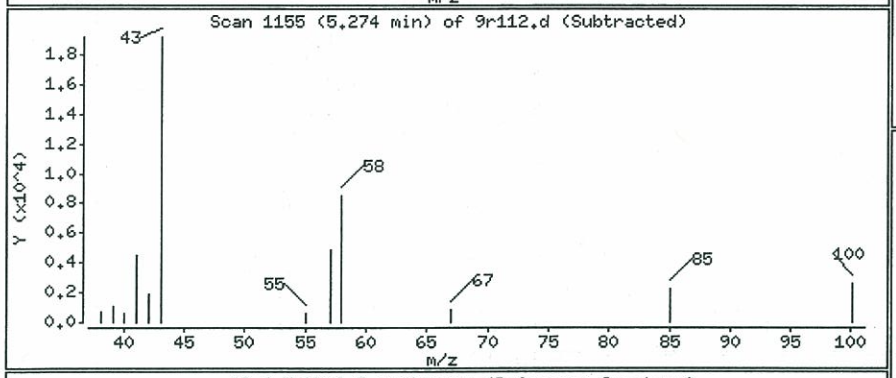
Column phase: RTX-Volatiles

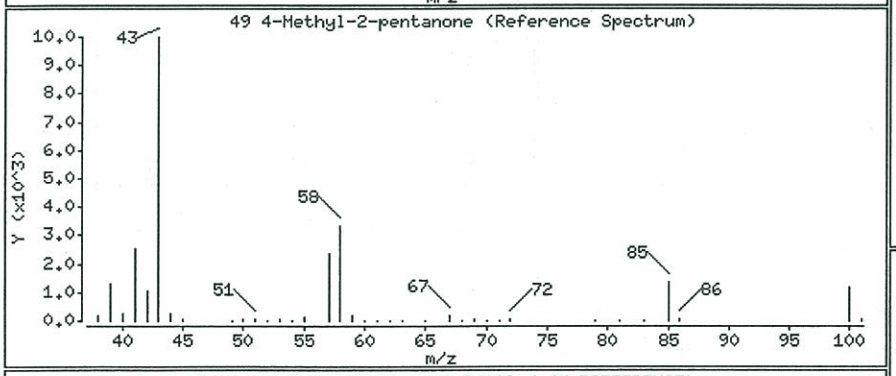
Column diameter: 0.25

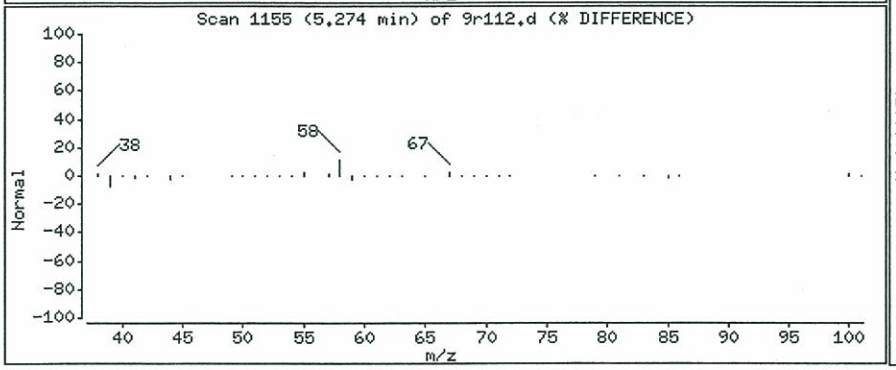
49 4-Methyl-2-pentanone

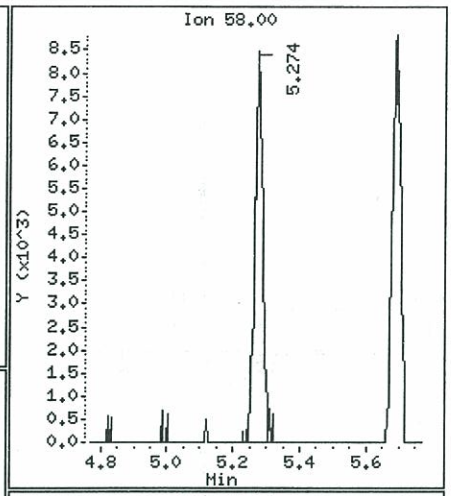
Concentration: 3.7 ug/Kg

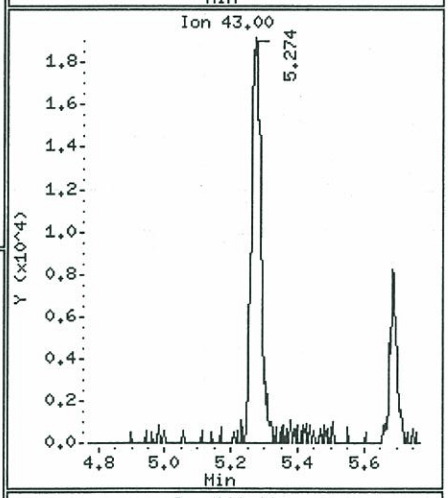


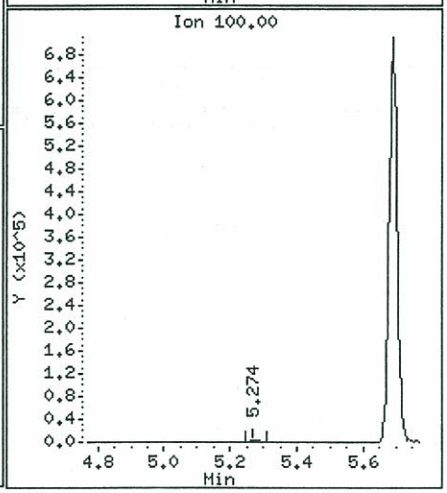












Data File: /chem/VOA9.i/010306v9.b/9r112.d

Date : 03-JAN-2006 23:43

Client ID: RE73-06-66447

Instrument: VOA9.i

Sample Info: |15261600|491532|1|VOAF|1|

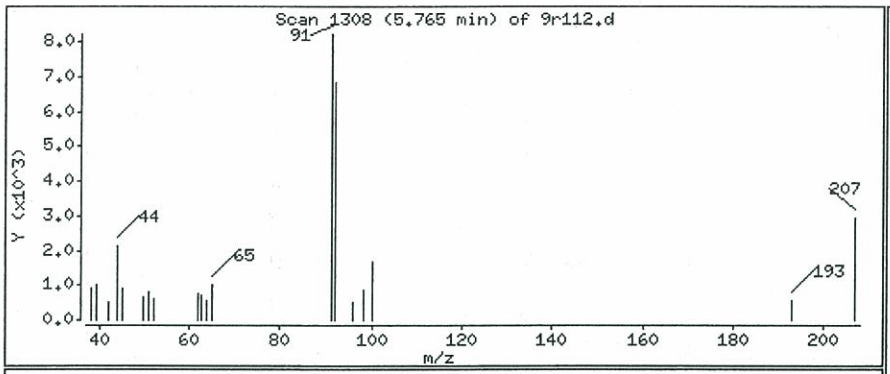
Operator: GRB2

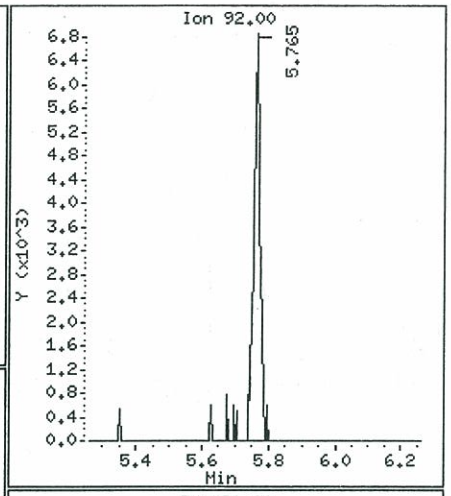
Column phase: RTX-Volatiles

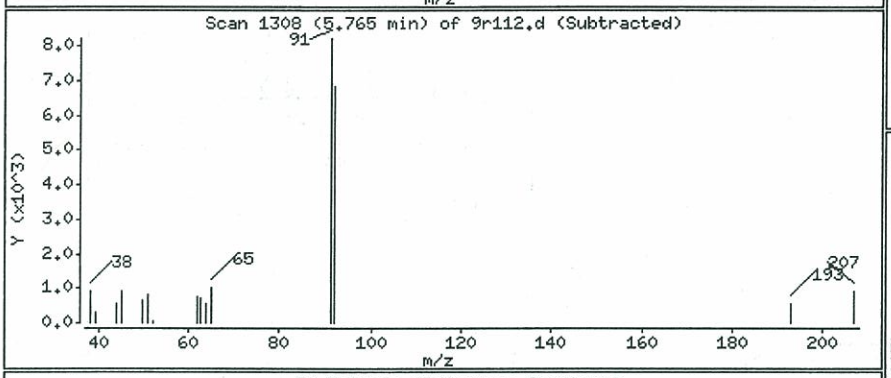
Column diameter: 0.25

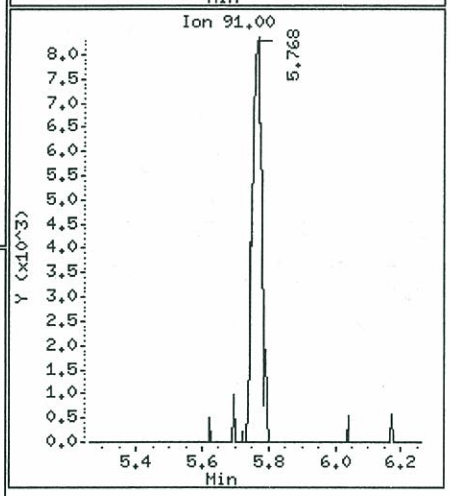
50 Toluene

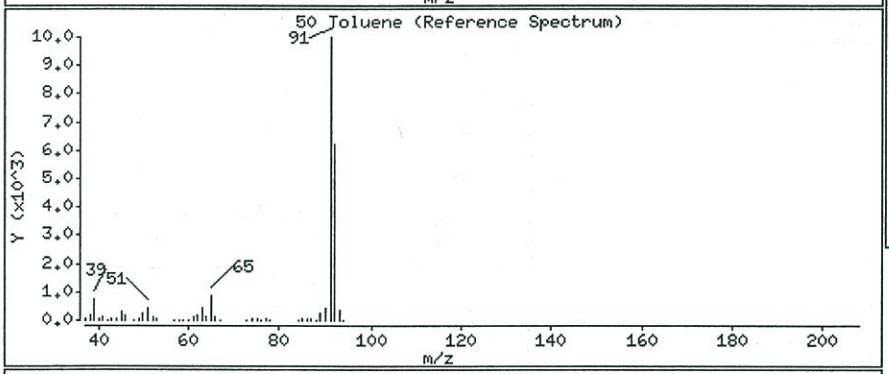
Concentration: 0.35 ug/Kg

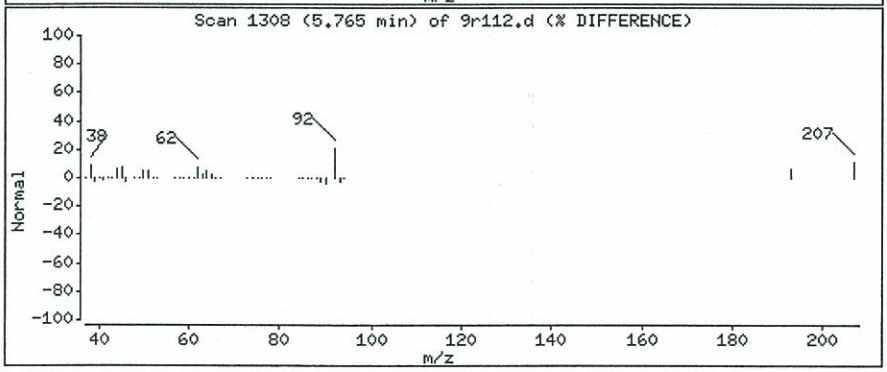












Data File: /chem/VOA9.i/010306v9.b/9r112.d

Date : 03-JAN-2006 23:43

Client ID: RE73-06-66447

Instrument: VOA9.i

Sample Info: |152616001|491532|1|VOAF|1|

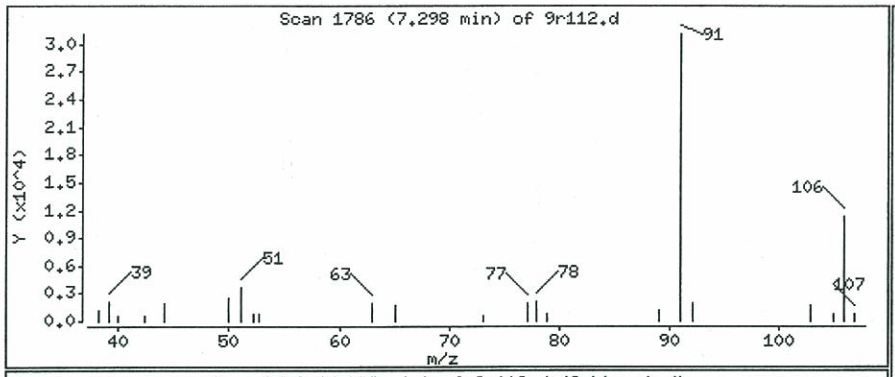
Operator: GRB2

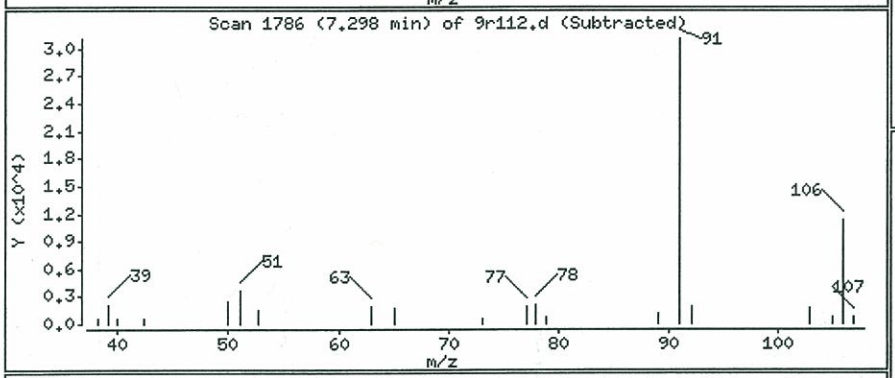
Column phase: RTX-Volatiles

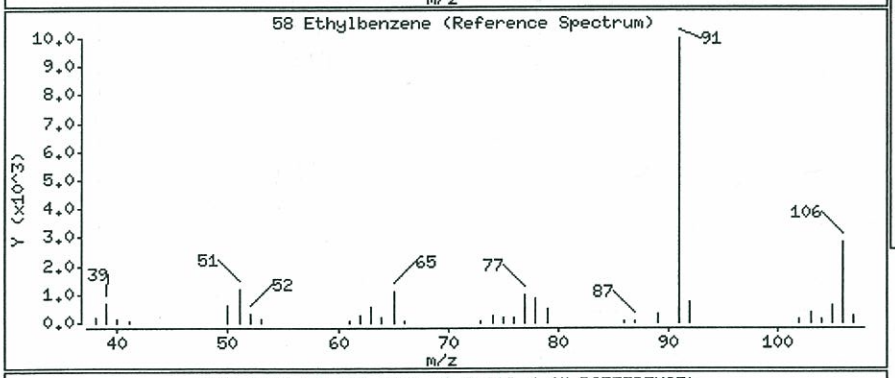
Column diameter: 0.25

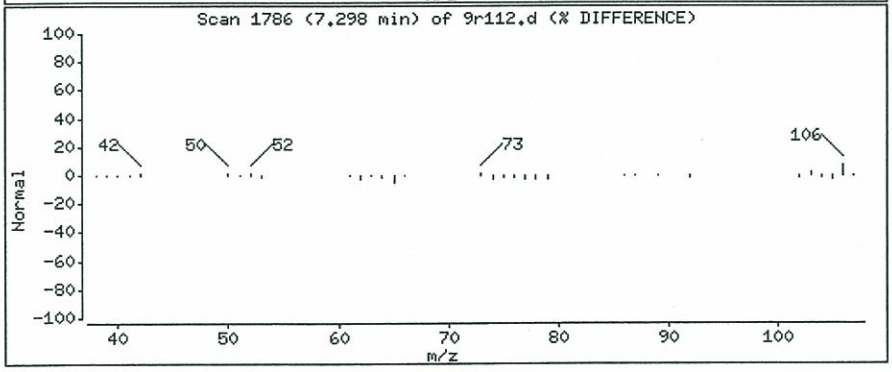
58 Ethylbenzene

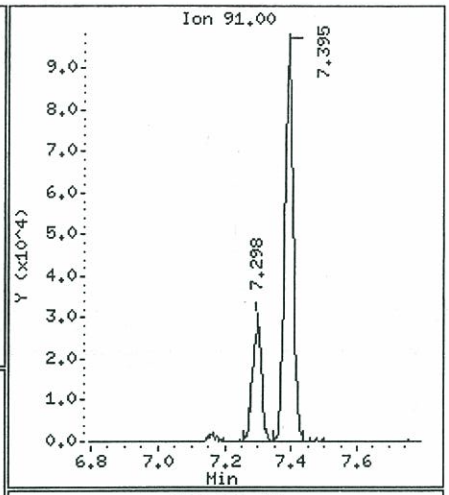
Concentration: 1.2 ug/Kg

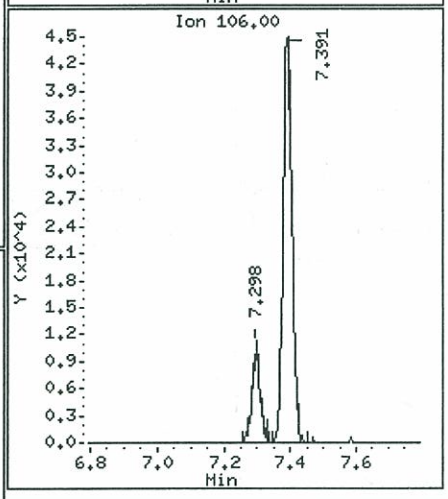












Data File: /chem/VOA9.i/010306v9.b/9r112.d

Date : 03-JAN-2006 23:43

Client ID: RE73-06-66447

Instrument: VOA9.i

Sample Info: |152616001|491532|1|VOAF|1|

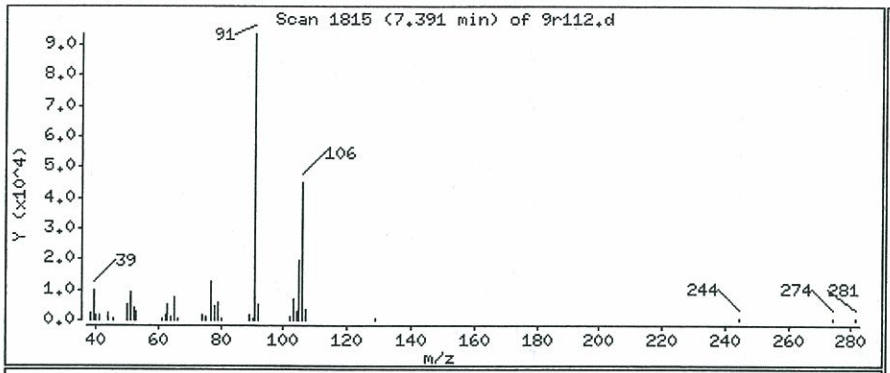
Operator: GRB2

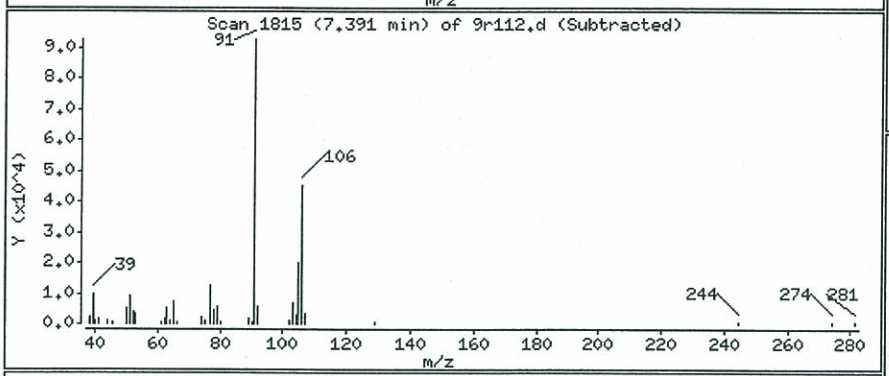
Column phase: RTX-Volatiles

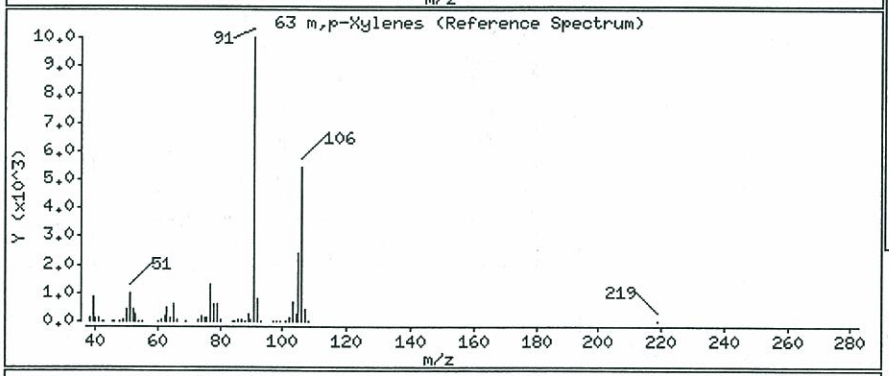
Column diameter: 0.25

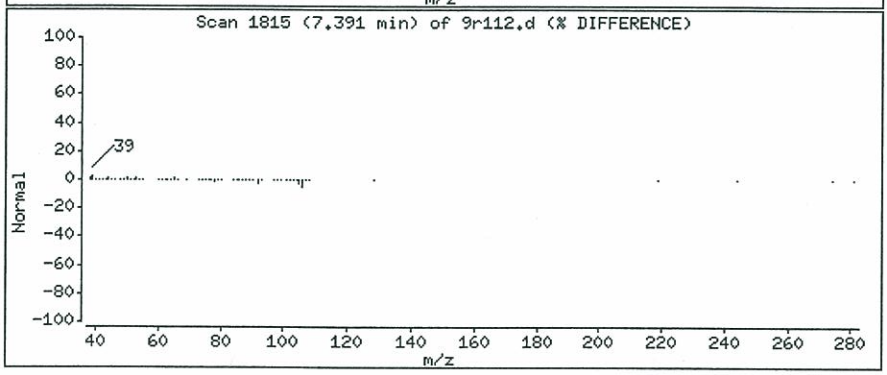
63 m,p-Xylenes

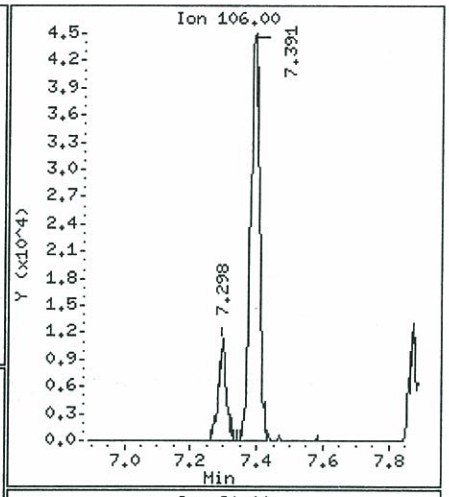
Concentration: 4.9 ug/Kg

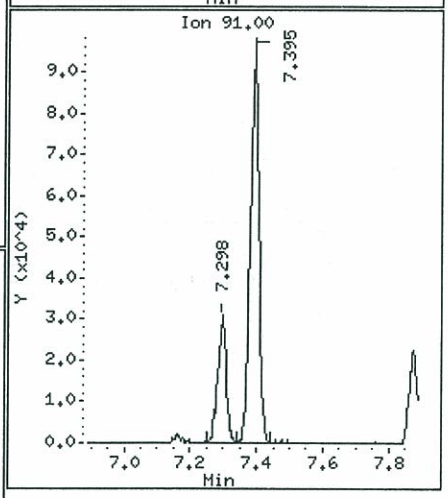












Data File: /chem/VOA9.i/010306v9.b/9r112.d

Date : 03-JAN-2006 23:43

Client ID: RE73-06-66447

Instrument: VOA9.i

Sample Info: |152616001|491532|1|VOAF|1|

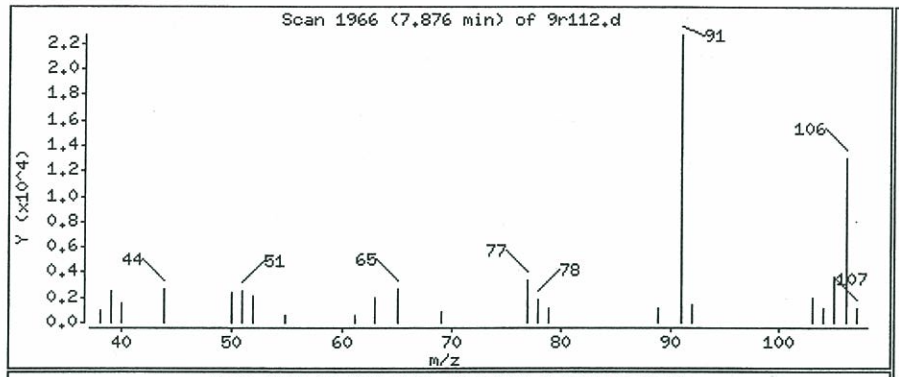
Operator: GRB2

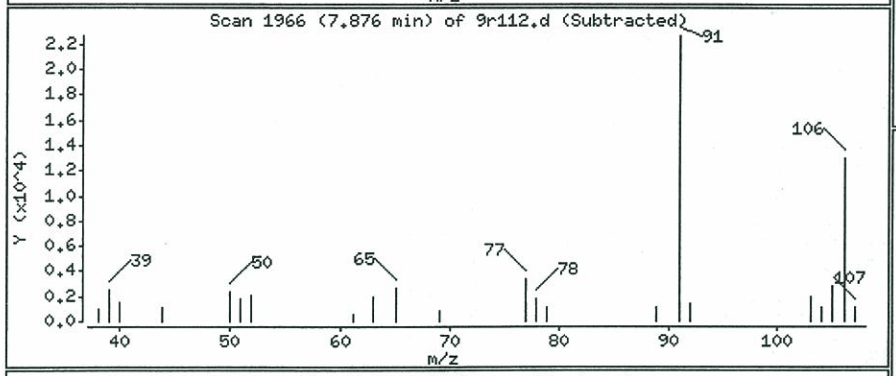
Column phase: RTX-Volatiles

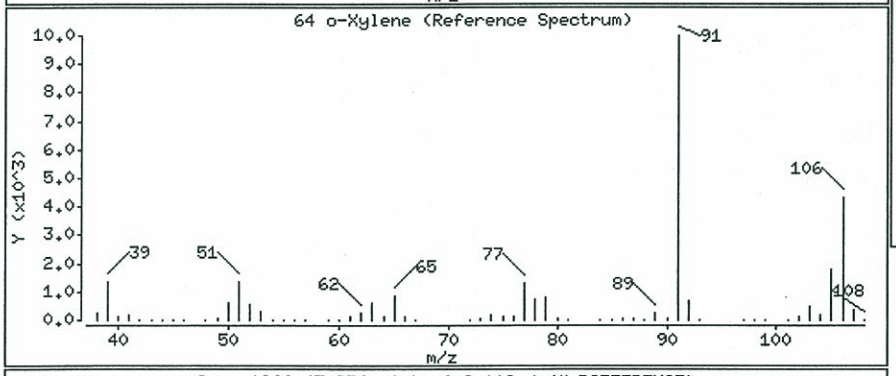
Column diameter: 0.25

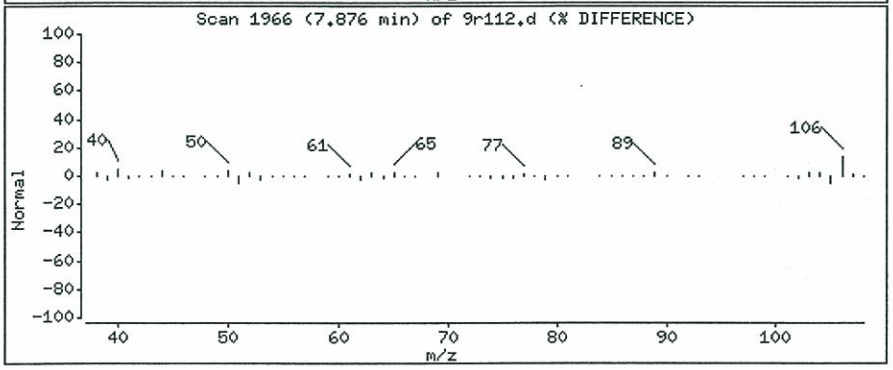
64 o-Xylene

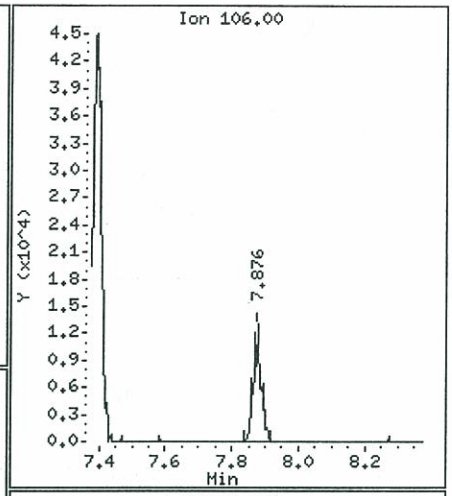
Concentration: 1.3 ug/Kg

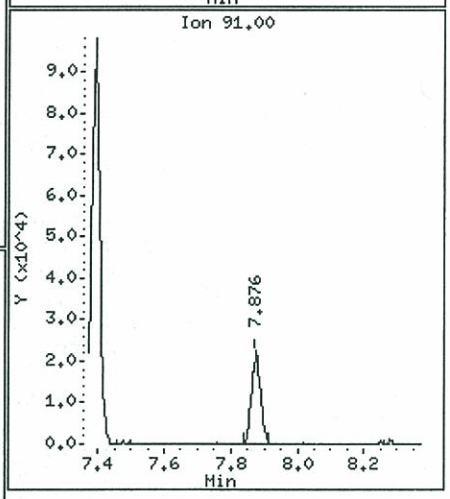












1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RE73-06-66448

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

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 4248S

Matrix: (soil/water) SOIL Lab Sample ID: 152616002

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 9R111

Level: (low/med) LOW Date Received: 12/22/05

% Moisture: not dec. _____ Date Analyzed: 01/03/06

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/KG	Q
75-71-8	Dichlorodifluoromethane	1.0	U
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
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethylene	1.0	U
67-64-1	Acetone	5.0	U
76-13-1	Trichlorotrifluoroethane	5.0	U
74-88-4	Iodomethane	5.0	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
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethylene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropylene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.43	J
10061-02-6	trans-1,3-Dichloropropylene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RE73-06-66448

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

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 4248S

Matrix: (soil/water) SOIL Lab Sample ID: 152616002

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 9R111

Level: (low/med) LOW Date Received: 12/22/05

% Moisture: not dec. _____ Date Analyzed: 01/03/06

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/KG	Q
142-28-9	1,3-Dichloropropane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethylene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
----------	m,p-Xylenes	2.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-86-1	Bromobenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

RE73-06-66448

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 4248S

Matrix: (soil/water) SOIL Lab Sample ID: 152616002

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 9R111

Level: (low/med) LOW Date Received: 12/22/05

% Moisture: not dec. _____ Date Analyzed: 01/03/06

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

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	8.28	29.2	J
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

General Engineering Laboratories, LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA9.i/010306v9.b/9r111.d
Lab Smp Id: 152616002 Client Smp ID: RE73-06-66448
Inj Date : 03-JAN-2006 23:13
Operator : GRB2 Inst ID: VOA9.i
Smp Info : |152616002|491532|1|VOAF|1|
Misc Info : LANL 5.0G N/A
Comment :
Method : /chem/VOA9.i/010306v9.b/VOA9-8260B-120505.m
Meth Date : 03-Jan-2006 22:58 tcl Quant Type: ISTD
Cal Date : 06-DEC-2005 05:37 Cal File: 9n116.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4248S.sub
Target Version: 3.50
Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	0.00000	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 40 Fluorobenzene	96	4.427	4.424	(1.000)	1637260	50.0000	
* 61 Chlorobenzene-d5	117	7.167	7.164	(1.000)	1174909	50.0000	
* 86 1,4-Dichlorobenzene-d4	152	10.097	10.094	(1.000)	490926	50.0000	
$ 35 Dibromofluoromethane	113	3.862	3.865	(0.872)	473487	57.8824	57.9
$ 47 Toluene-d8	98	5.691	5.691	(0.794)	1657975	51.6787	51.7
$ 71 Bromofluorobenzene	95	8.566	8.566	(0.848)	566745	54.5128	54.5
50 Toluene	92	5.768	5.762	(0.805)	10035	0.42651	0.43(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

General Engineering Laboratories, LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA9.i/010306v9.b/9r111.d
Lab Smp Id: 152616002 Client Smp ID: RE73-06-66448
Inj Date : 03-JAN-2006 23:13
Operator : GRB2 Inst ID: VOA9.i
Smp Info : |152616002|491532|1|VOAF|1|
Misc Info : LANL 5.0G N/A
Comment :
Method : /chem/VOA9.i/010306v9.b/VOA9-8260B-120505.m
Meth Date : 03-Jan-2006 22:58 tcl Quant Type: ISTD
Cal Date : 06-DEC-2005 05:37 Cal File: 9n116.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4248S.sub
Target Version: 3.50
Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	0.00000	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 61 Chlorobenzene-d5	7.167	3717364	50.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ug/l)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown Siloxane					CAS #:		
8.277	2174643	29.2498040	29.2	0		0	61

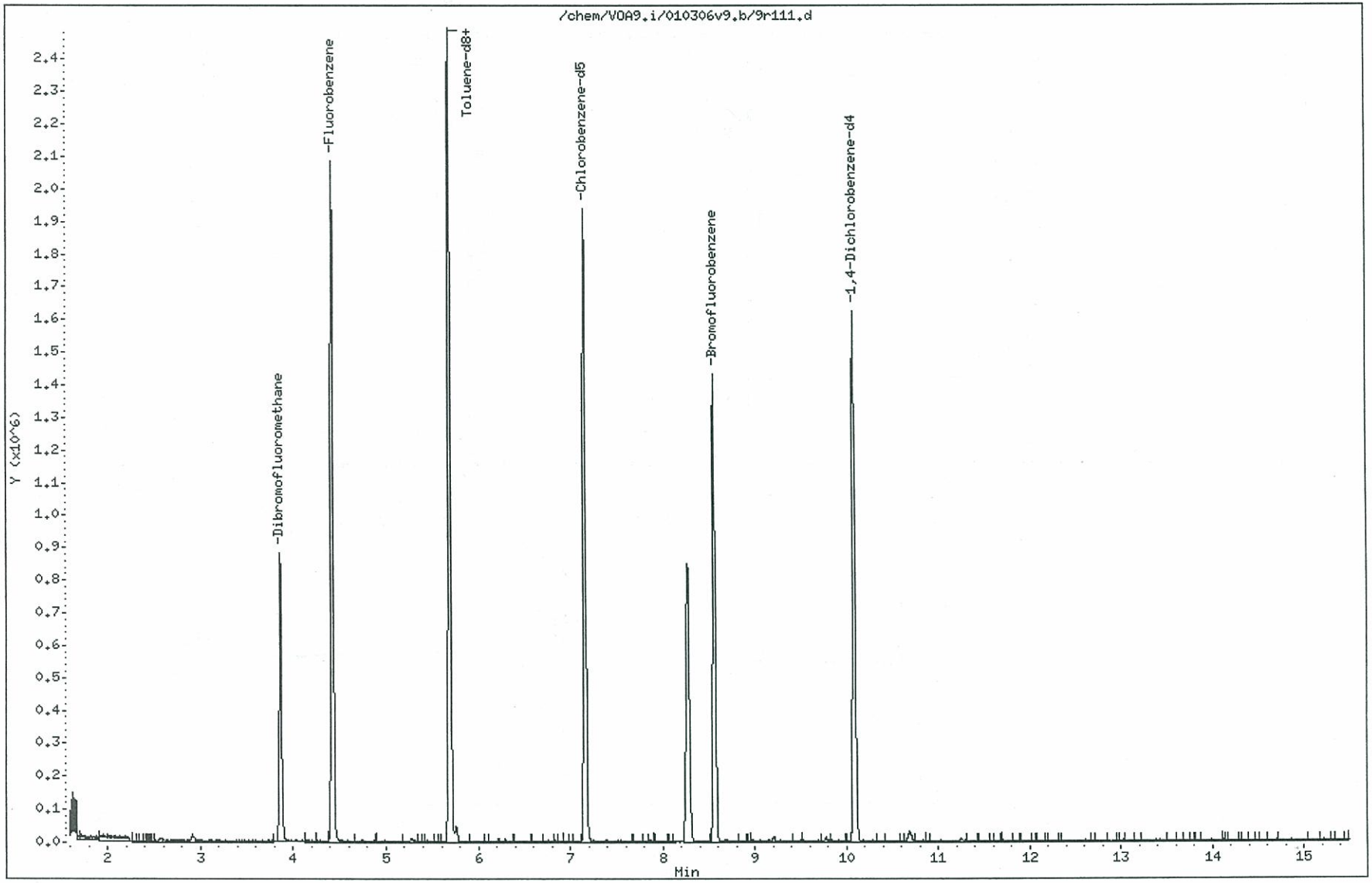
Data File: /chem/VOA9.i/010306v9.b/9r111.d
Date : 03-JAN-2006 23:13
Client ID: RE73-06-66448
Sample Info: |15261600|4915321|VOAF|1|

Instrument: VOA9.i

Operator: GRB2

Column phase: RTX-Volatiles

Column diameter: 0.25



Data File: /chem/VOA9.i/010306v9.b/9r111.d

Date : 03-JAN-2006 23:13

Client ID: RE73-06-66448

Instrument: VOA9.i

Sample Info: |1526160021491532|1|VOAF|1|

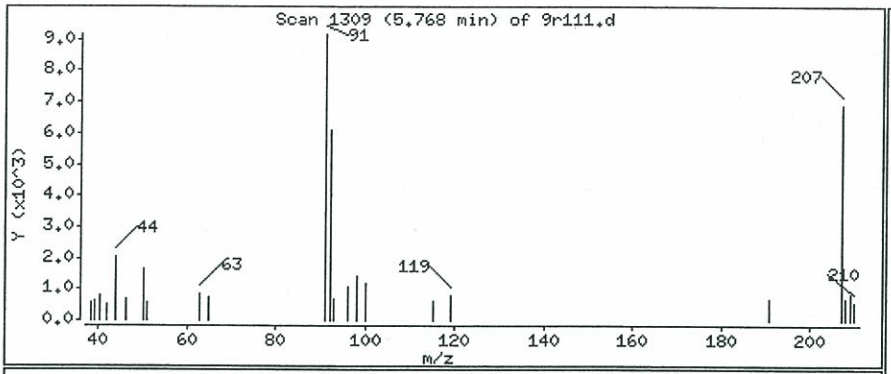
Operator: GRB2

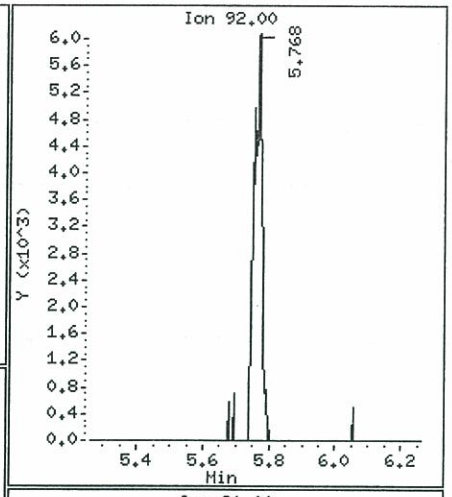
Column phase: RTX-Volatiles

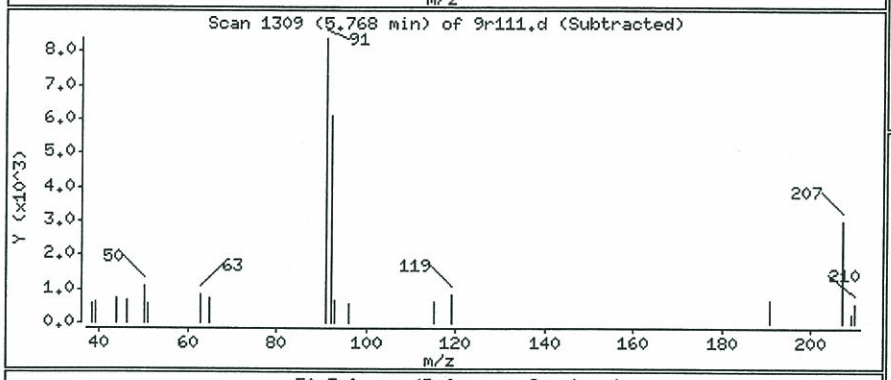
Column diameter: 0.25

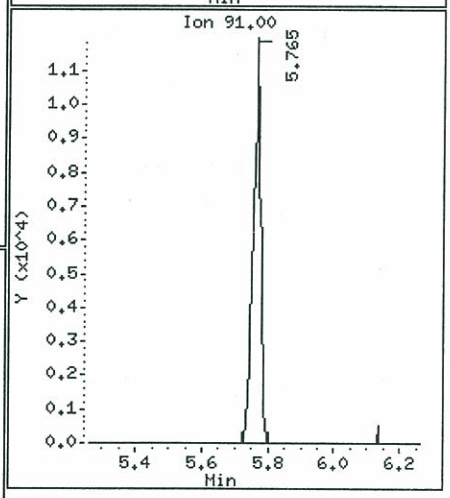
50 Toluene

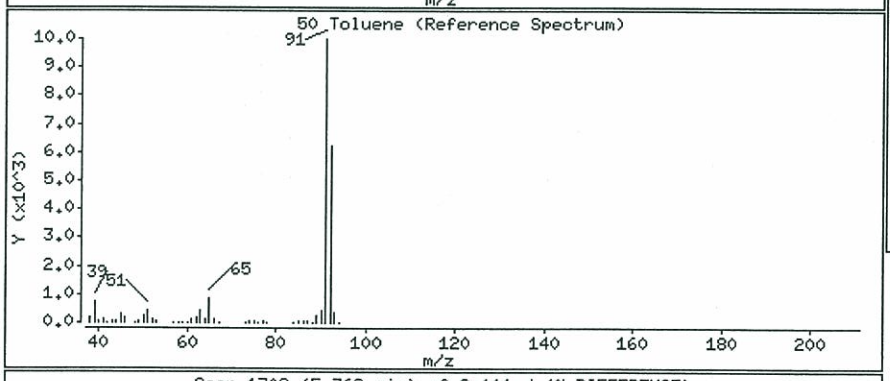
Concentration: 0.43 ug/Kg

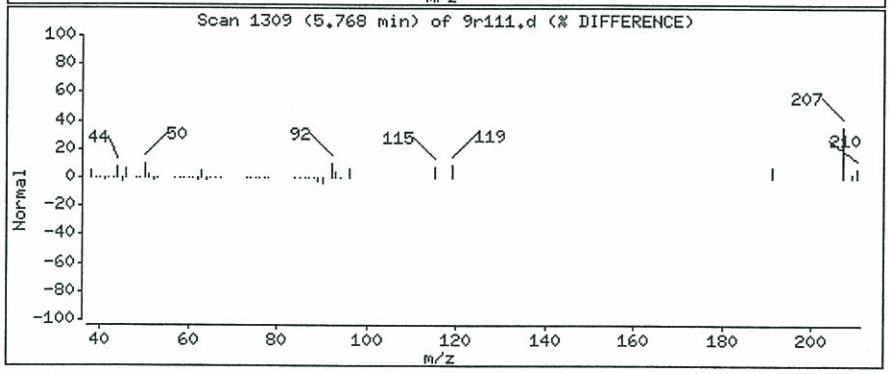












Data File: /chem/VOA9.i/010306v9.b/9r111.d

Date : 03-JAN-2006 23:13

Client ID: RE73-06-66448

Instrument: VOA9.i

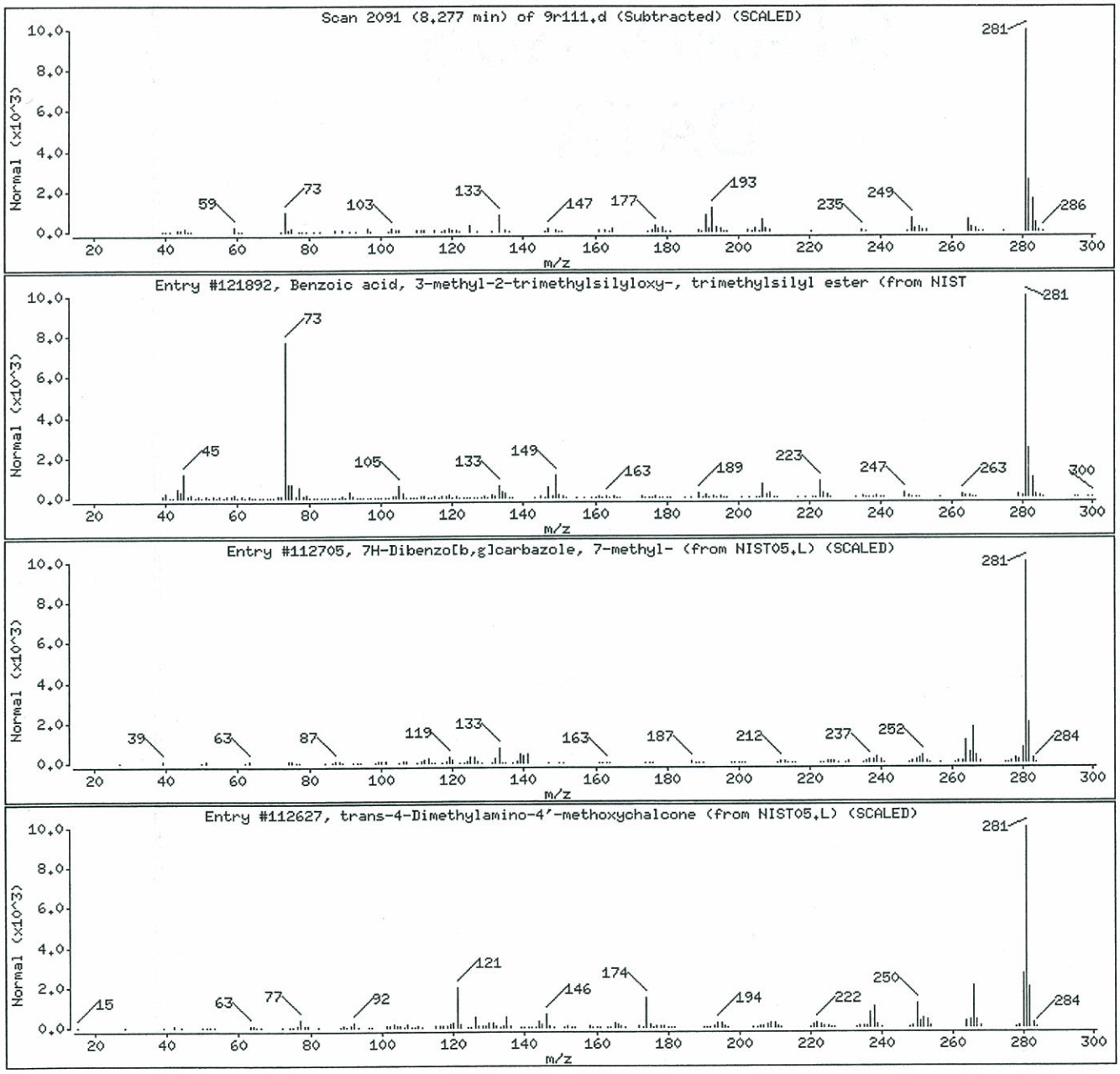
Sample Info: |15261600|491532|1|VOAF|1|

Operator: GRB2

Column phase: RTX-Volatiles

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Siloxane						
Benzoic acid, 3-methyl-2-trimethylsilylo	1000153-57-1	NIST05.L	121892	59	C14H24O3Si2	296
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NIST05.L	112705	53	C21H15N	281
trans-4-Dimethylamino-4'-methoxychalcone	52119-37-6	NIST05.L	112627	50	C18H19NO2	281



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 !	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
1,4-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: 08-Dec-2005 03:27

Calibration History

Method : /chem/VOA9.i/120505v9.b/VOA9-8260B-120505.m
Start Cal Date: 05-DEC-2005 23:49
End Cal Date : 06-DEC-2005 06:57

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
06-DEC-2005 04:17	ICALsubS	/chem/VOA9.i/120505v9.b/9n113.d
06-DEC-2005 00:16	CALsubL+	/chem/VOA9.i/120505v9.b/9n104.d
Cal Level: 2 , Cal Amount: 2.00000		
06-DEC-2005 04:43	ICALsubS	/chem/VOA9.i/120505v9.b/9n114.d
06-DEC-2005 01:10	CALsubL+	/chem/VOA9.i/120505v9.b/9n106.d
Cal Level: 3 , Cal Amount: 5.00000		
06-DEC-2005 05:10	ICALsubS	/chem/VOA9.i/120505v9.b/9n115.d
06-DEC-2005 01:36	CALsubL+	/chem/VOA9.i/120505v9.b/9n107.d
Cal Level: 4 , Cal Amount: 10.00000		
06-DEC-2005 05:37	ICALsubS	/chem/VOA9.i/120505v9.b/9n116.d
06-DEC-2005 02:04	CALsubL+	/chem/VOA9.i/120505v9.b/9n108.d
Cal Level: 5 , Cal Amount: 20.00000		
06-DEC-2005 06:03	ICALsubS	/chem/VOA9.i/120505v9.b/9n117.d
06-DEC-2005 02:30	CALsubL+	/chem/VOA9.i/120505v9.b/9n109.d
Cal Level: 6 , Cal Amount: 50.00000		
06-DEC-2005 06:31	ICALsubS	/chem/VOA9.i/120505v9.b/9n118.d
06-DEC-2005 02:57	CALsubL+	/chem/VOA9.i/120505v9.b/9n110.d
Cal Level: 7 , Cal Amount: 100.00000		
06-DEC-2005 06:57	ICALsubS	/chem/VOA9.i/120505v9.b/9n119.d
06-DEC-2005 03:24	CALsubL+	/chem/VOA9.i/120505v9.b/9n111.d
Cal Level: 8 , Cal Amount: 200.00000		
05-DEC-2005 23:49	BENZENE+	/chem/VOA9.i/120505v9.b/9n103.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

Ccal Level: 6 , Ccal Amount: 50.0		
06-DEC-2005 02:57	CALsubL+	/chem/VOA9.i/120505v9.b/9n110.d
Ccal Level: 6 , Ccal Amount: 50.0		
06-DEC-2005 08:18	CALsubL+	/chem/VOA9.i/120505v9.b/9n122.d
Ccal Level: 6 , Ccal Amount: 50.0		
06-DEC-2005 06:31	ICALsubS	/chem/VOA9.i/120505v9.b/9n118.d
Ccal Level: 6 , Ccal Amount: 50.0		
06-DEC-2005 09:12	CALsubS+SS	/chem/VOA9.i/120505v9.b/9n124.d
Ccal Level: 6 , Ccal Amount: 50.0		
06-DEC-2005 08:45	CALsubL+	/chem/VOA9.i/120505v9.b/9n123.d
Ccal Level: 6 , Ccal Amount: 50.0		
06-DEC-2005 07:51	CALsubL+	/chem/VOA9.i/120505v9.b/9n121.d

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 05-DEC-2005 23:49
End Cal Date : 06-DEC-2005 06:57
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA9.i/120505v9.b/VOA9-8260B-120505.m
Cal Date : 08-Dec-2005 03:53 jef01179

Calibration File Names:
Level 1: /chem/VOA9.i/120505v9.b/9n113.d
Level 3: /chem/VOA9.i/120505v9.b/9n115.d
Level 4: /chem/VOA9.i/120505v9.b/9n116.d
Level 5: /chem/VOA9.i/120505v9.b/9n117.d
Level 6: /chem/VOA9.i/120505v9.b/9n118.d
Level 7: /chem/VOA9.i/120505v9.b/9n119.d
Level 8: /chem/VOA9.i/120505v9.b/9n103.d

Compound	1 Level 1	5 Level 3	10 Level 4	20 Level 5	50 Level 6	100 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	200 Level 8										
M 1 Xylenes (total)	0.77100	0.60615	0.63507	0.65205	0.63870	0.67544					
	+++++						AVRG		0.66307		8.67478
M 2 1,2-Dichloroethylene (total)	0.32637	0.27170	0.27525	0.28848	0.27146	0.27653					
	+++++						AVRG		0.28497		7.44532
M 135 1,3-Dichloropropylene	21455	97566	213912	502270	1549493	3194380					
	+++++						LINR	0.09931	0.37135		0.99820
3 Dichlorodifluoromethane	22384	58139	136883	278564	691585	1348475					
	+++++						LINR	-0.00902	0.30686		0.99934
4 Chloromethane	27905	103531	225285	444016	1037969	1952046					
	+++++						LINR	-0.03323	0.44197		0.99877
5 Vinyl chloride	0.37095	0.29003	0.32206	0.31872	0.28742	0.29251					
	+++++						AVRG		0.31362		10.15651

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 05-DEC-2005 23:49
End Cal Date : 06-DEC-2005 06:57
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA9.i/120505v9.b/VOA9-8260B-120505.m
Cal Date : 08-Dec-2005 03:53 jef01179

Compound	1 Level 1	5 Level 3	10 Level 4	20 Level 5	50 Level 6	100 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	200 Level 8										
6 Bromomethane	17247	46401	106794	210061	513247	1011311					
	+++++						LINR	-0.01266	0.22927		0.99907
7 Chloroethane	0.26094	0.20641	0.23579	0.24698	0.21811	0.22703					
	+++++						AVRG		0.23254		8.48637
8 Trichlorofluoromethane	25860	86903	194183	393551	976683	1932369					
	+++++						LINR	-0.00493	0.43962		0.99919
134 Ethyl Ether	0.16182	0.16373	0.18954	0.18690	0.16860	0.17620					
	+++++						AVRG		0.17446		6.75598
9 Acrolein	0.03576	0.03900	0.04430	0.04310	0.04676	0.04840					
	+++++						AVRG		0.04327		10.31607
12 Trichlorotrifluoroethane	0.09619	0.09417	0.10108	0.09045	0.09076	0.09502					
	+++++						AVRG		0.09536		4.28179
10 Acetone	21675	82330	297747	379671	845346	1668489					
	+++++						LINR	-0.28298	0.07437		0.99043
11 1,1-Dichloroethylene	0.59621	0.42299	0.44079	0.46152	0.42785	0.44467					
	+++++						AVRG		0.46567		14.03936
13 Iodomethane	0.42831	0.38475	0.41381	0.42446	0.39808	0.41435					
	+++++						AVRG		0.41063		4.00875

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 05-DEC-2005 23:49
End Cal Date : 06-DEC-2005 06:57
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA9.i/120505v9.b/VOA9-8260B-120505.m
Cal Date : 08-Dec-2005 03:53 jef01179

Compound	1 Level 1	5 Level 3	10 Level 4	20 Level 5	50 Level 6	100 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	200 Level 8										
15 Acetonitrile	0.04034	0.03812	0.04020	0.03960	0.03248	0.03572					
	+++++						AVRG		0.03774		8.22407
128 Methyl acetate	0.21338	0.19293	0.21208	0.21631	0.18136	0.20163					
	+++++						AVRG		0.20295		6.75213
14 Carbon disulfide	1.06562	0.82955	0.87057	0.89673	0.80753	0.80345					
	+++++						AVRG		0.87891		11.20261
16 Allyl chloride	0.11120	0.12709	0.13298	0.12689	0.13404	0.14218					
	+++++						AVRG		0.12887		7.37091
17 Methylene chloride	31126	82957	133857	265591	643483	1228277					
	+++++						LINR	-0.03963	0.27550		0.99962
18 Acrylonitrile	0.08458	0.09039	0.10366	0.09799	0.10509	0.10509					
	+++++						AVRG		0.09770		8.04497
20 tert-Butyl methyl ether	0.61351	0.58645	0.62561	0.63245	0.60747	0.64005					
	+++++						AVRG		0.61759		3.13831
21 trans-1,2-Dichloroethylene	0.33671	0.26706	0.27312	0.28424	0.26071	0.27036					
	+++++						AVRG		0.28203		9.88909
23 Vinyl acetate	81082	408931	1040789	2336495	5814821	11611784					
	+++++						LINR	0.06256	0.53321		0.99902

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 05-DEC-2005 23:49
End Cal Date : 06-DEC-2005 06:57
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA9.i/120505v9.b/VOA9-8260B-120505.m
Cal Date : 08-Dec-2005 03:53 jef01179

Compound	1 Level 1	5 Level 3	10 Level 4	20 Level 5	50 Level 6	100 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	200 Level 8										
22 1,1-Dichloroethane	0.54868	0.50116	0.51970	0.54949	0.52361	0.53364					
	+++++						AVRG		0.52938		3.50241
24 2-Chloro-1,3-butadiene	0.32115	0.36432	0.39828	0.36124	0.37417	0.39663					
	+++++						AVRG		0.36462		7.86767
26 Ethyl acetate	0.23478	0.21436	0.25265	0.24131	0.26957	0.26973					
	+++++						AVRG		0.24740		7.93098
30 2-Butanone	0.12192	0.11864	0.12752	0.12895	0.10671	0.11850					
	+++++						AVRG		0.12037		6.64880
31 cis-1,2-Dichloroethylene	0.31603	0.27634	0.27738	0.29272	0.28221	0.28270					
	+++++						AVRG		0.28790		5.19454
28 Propionitrile	0.03551	0.03152	0.03822	0.03585	0.03936	0.03995					
	+++++						AVRG		0.03666		7.80465
25 2,2-Dichloropropane	10523	44998	88547	210281	605158	1348173					
	+++++						LINR	0.05691	0.31146		0.99474
27 Methacrylonitrile	0.16383	0.15190	0.17959	0.16339	0.18193	0.17643					
	+++++						AVRG		0.17037		6.40549
29 Bromochloromethane	0.13336	0.12505	0.12424	0.13116	0.12317	0.12578					
	+++++						AVRG		0.12713		3.24757

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 05-DEC-2005 23:49
End Cal Date : 06-DEC-2005 06:57
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA9.i/120505v9.b/VOA9-8260B-120505.m
Cal Date : 08-Dec-2005 03:53 jef01179

Compound	1 Level 1	5 Level 3	10 Level 4	20 Level 5	50 Level 6	100 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	200 Level 8										
32 Chloroform	0.50456	0.45799	0.45771	0.48645	0.45031	0.45862					
	+++++						AVRG		0.46927		4.54461
72 Tetrahydrofuran	33179	98050	204035	380613	1078803	2056031					
	+++++						LINR	-0.01136	0.33729		0.99943
36 1,1,1-Trichloroethane	0.34547	0.31861	0.29815	0.33572	0.33418	0.35807					
	+++++						AVRG		0.33170		6.33004
19 Isobutyl alcohol	12290	52051	149626	328942	1141480	2333415					
	+++++						LINR	2.81222	0.01152		0.99701
34 1,1-Dichloropropene	0.50139	0.37028	0.36355	0.38306	0.35977	0.37985					
	+++++						AVRG		0.39298		13.70693
129 Cyclohexane	0.47850	0.39378	0.40293	0.41248	0.37254	0.40275					
	+++++						AVRG		0.41050		8.75984
33 Carbon tetrachloride	10101	41616	82613	202187	596400	1301076					
	+++++						LINR	0.05680	0.30134		0.99585
37 1,2-Dichloroethane	0.39396	0.37446	0.37395	0.38861	0.35825	0.37251					
	+++++						AVRG		0.37696		3.37659
38 Benzene	1.23180	1.09368	1.09792	1.09930	1.04715	1.05445					
	+++++						AVRG		1.10405		6.03348

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 05-DEC-2005 23:49
End Cal Date : 06-DEC-2005 06:57
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA9.i/120505v9.b/VOA9-8260B-120505.m
Cal Date : 08-Dec-2005 03:53 jef01179

Compound	1 Level 1	5 Level 3	10 Level 4	20 Level 5	50 Level 6	100 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	200 Level 8										
131 n-Butyl alcohol	13364	59540	150830	366509	1027002	+++++					
	5270						LINR	2.00747	0.00455		0.99837
39 Trichloroethylene	0.32265	0.25148	0.26126	0.26220	0.25681	0.26105					
	+++++						AVRG		0.26924		9.83143
42 Methyl methacrylate	0.12175	0.12940	0.14828	0.15385	0.17270	0.17617					
	+++++						AVRG		0.14831		14.08042
41 1,2-Dichloropropane	0.27255	0.29087	0.28527	0.29684	0.28602	0.28964					
	+++++						AVRG		0.28687		2.83747
130 Methylcyclohexane	0.62618	0.44872	0.44439	0.46897	0.44713	0.46818					
	+++++						AVRG		0.48393		14.57243
97 1,4-Dioxane	0.00264	0.00227	0.00269	0.00277	0.00308	0.00312					
	+++++						AVRG		0.00273		10.85923
43 Dibromomethane	0.16830	0.16012	0.15273	0.17044	0.15668	0.16045					
	+++++						AVRG		0.16145		4.19355
45 Bromodichloromethane	0.25233	0.26424	0.26526	0.29022	0.29867	0.31569					
	+++++						AVRG		0.28107		8.64407
48 2-Nitropropane	0.03013	0.02703	0.02688	0.03471	+++++	+++++					
	+++++						AVRG		0.02972		10.68543

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 05-DEC-2005 23:49
End Cal Date : 06-DEC-2005 06:57
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA9.i/120505v9.b/VOA9-8260B-120505.m
Cal Date : 08-Dec-2005 03:53 jef01179

Compound	1 Level 1	5 Level 3	10 Level 4	20 Level 5	50 Level 6	100 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	200 Level 8										
44 2-Chloroethylvinyl ether	28728	138931	350721	772430	1898750	3930898					
	+++++						LINR	0.09043	0.18001		0.99805
46 cis-1,3-Dichloropropylene	0.31987	0.27534	0.30116	0.34041	0.37448	0.40148					
	+++++						AVRG		0.33546		13.94426
49 4-Methyl-2-pentanone	0.12964	0.13295	0.15052	0.15538	0.13808	0.15591					
	+++++						AVRG		0.14375		8.09330
50 Toluene	1.32797	0.93423	0.95061	0.94758	0.90191	0.94541					
	+++++						AVRG		1.00128		16.08328
51 Ethyl methacrylate	36917	221292	489788	1076806	3234255	6388929					
	+++++						LINR	0.14806	0.45005		0.99929
53 trans-1,3-Dichloropropylene	8124	39774	89687	217652	689319	1444995					
	+++++						LINR	0.06282	0.50092		0.99656
54 1,1,2-Trichloroethane	0.29506	0.25680	0.27176	0.27516	0.26124	0.27320					
	+++++						AVRG		0.27220		4.90160
55 2-Hexanone	0.22613	0.23933	0.27834	0.28403	0.24892	0.28649					
	+++++						AVRG		0.26054		9.87655
52 1,3-Dichloropropane	0.57654	0.51042	0.53481	0.56528	0.53163	0.54413					
	+++++						AVRG		0.54380		4.41045

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 05-DEC-2005 23:49
End Cal Date : 06-DEC-2005 06:57
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA9.i/120505v9.b/VOA9-8260B-120505.m
Cal Date : 08-Dec-2005 03:53 jef01179

Compound	1 Level 1	5 Level 3	10 Level 4	20 Level 5	50 Level 6	100 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	200 Level 8										
56 Tetrachloroethylene	11317	38010	72708	164500	438440	840969					
	+++++						LINR	0.00701	0.28675		0.99958
57 Dibromochloromethane	5817	28918	61796	135060	432316	898619					
	+++++						LINR	0.05570	0.31051		0.99673
59 1,2-Dibromoethane	0.25582	0.25926	0.29198	0.30298	0.29568	0.32066					
	+++++						AVRG		0.28773		8.82997
62 Chlorobenzene	1.16236	0.99503	0.96912	1.01301	0.96419	0.98522					
	+++++						AVRG		1.01482		7.33324
58 Ethylbenzene	2.17007	1.65039	1.63054	1.70295	1.65508	1.66758					
	+++++						AVRG		1.74610		11.97422
60 1,1,1,2-Tetrachloroethane	6293	28800	60002	141574	426970	875997					
	+++++						LINR	0.04863	0.30221		0.99763
63 m,p-Xylenes	0.80154	0.62769	0.63897	0.65220	0.64004	0.67975					
	+++++						AVRG		0.67337		9.69208
64 o-Xylene	0.70994	0.56306	0.62727	0.65174	0.63603	0.66683					
	+++++						AVRG		0.64248		7.56463
65 Styrene	1.04604	0.92710	0.95697	1.05090	1.06223	1.10554					
	+++++						AVRG		1.02480		6.64673

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 05-DEC-2005 23:49
End Cal Date : 06-DEC-2005 06:57
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA9.i/120505v9.b/VOA9-8260B-120505.m
Cal Date : 08-Dec-2005 03:53 jef01179

Compound	1 Level 1	5 Level 3	10 Level 4	20 Level 5	50 Level 6	100 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	200 Level 8										
66 Bromoform	2397	11179	28281	67440	222969	506350					
	+++++						LINR	0.07979	0.38396		0.99290
67 Isopropylbenzene	4.14608	3.10643	3.18052	3.38079	3.26029	3.32361					
	+++++						AVRG		3.39962		11.13671
68 cis-1,4-Dichloro-2-butene	14230	65857	148295	321685	977292	2003095					
	+++++						LINR	0.19062	0.33185		0.99831
70 Cyclohexanone	8121	33912	83458	180649	556929	1118240					
	+++++						LINR	0.86307	0.01575		0.99877
73 1,1,2,2-Tetrachloroethane	0.93610	0.85033	0.89377	0.92143	0.82589	0.87580					
	+++++						AVRG		0.88389		4.74307
69 trans-1,4-Dichloro-2-butene	12160	62059	134462	300607	898521	1853972					
	+++++						LINR	0.19118	0.30686		0.99823
74 1,2,3-Trichloropropane	0.21263	0.21999	0.22547	0.21696	0.19968	0.21321					
	+++++						AVRG		0.21465		4.06758
75 Bromobenzene	0.95238	0.83388	0.81602	0.88595	0.86321	0.86620					
	+++++						AVRG		0.86961		5.47135
76 n-Propylbenzene	5.51668	4.13709	4.21382	4.33971	4.30158	4.30131					
	+++++						AVRG		4.46837		11.61055

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 05-DEC-2005 23:49
End Cal Date : 06-DEC-2005 06:57
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA9.i/120505v9.b/VOA9-8260B-120505.m
Cal Date : 08-Dec-2005 03:53 jef01179

Compound	1 Level 1	5 Level 3	10 Level 4	20 Level 5	50 Level 6	100 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	200 Level 8										
78 1,3,5-Trimethylbenzene	3.48876	2.73494	2.80990	3.04022	2.92392	2.95863					
	+++++						AVRG		2.99273		8.89209
77 2-Chlorotoluene	3.36443	2.58859	2.57541	2.64188	2.55328	2.73754					
	+++++						AVRG		2.74352		11.34450
80 4-Chlorotoluene	3.69139	2.74961	2.76536	2.89167	2.65892	2.64246					
	+++++						AVRG		2.89990		13.72059
81 tert-Butylbenzene	3.12661	2.72971	2.71348	2.84389	2.78797	2.87779					
	+++++						AVRG		2.84657		5.30929
79 1,2,4-Trimethylbenzene	3.62345	2.83657	2.83292	2.94270	2.89654	2.96457					
	+++++						AVRG		3.01612		10.02360
82 Pentachloroethane	11360	71753	159497	380588	1239514	2695732					
	+++++						LINR	0.30733	0.44835		0.99562
83 sec-Butylbenzene	5.14918	3.65441	3.94474	4.00007	3.95926	4.07381					
	+++++						AVRG		4.13024		12.57340
84 4-Isopropyltoluene	3.59266	2.75244	2.82001	2.97856	2.96895	3.00041					
	+++++						AVRG		3.01884		9.87360
85 1,3-Dichlorobenzene	27613	95193	189968	405012	1111578	2089293					
	+++++						LINR	-0.00535	1.55519		0.99997

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 05-DEC-2005 23:49
End Cal Date : 06-DEC-2005 06:57
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA9.i/120505v9.b/VOA9-8260B-120505.m
Cal Date : 08-Dec-2005 03:53 jef01179

Compound	1 Level 1	5 Level 3	10 Level 4	20 Level 5	50 Level 6	100 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	200 Level 8										
87 1,4-Dichlorobenzene	26246	98924	188471	395343	1102524	2071207					
	+++++						LINR	-0.00507	1.54156		0.99999
88 Benzyl chloride	21606	119699	296424	803638	3013564	6679288					
	+++++						LINR	0.40675	1.12050		0.99303
89 n-Butylbenzene	1.95812	1.48010	1.56283	1.59027	1.64233	1.70922					
	+++++						AVRG		1.65714		10.03349
90 1,2-Dichlorobenzene	1.91401	1.48865	1.44525	1.47802	1.45649	1.44915					
	+++++						AVRG		1.53859		12.00398
91 bis(2-Chloroisopropyl)ether	16890	86380	207079	445706	1390590	2732331					
	+++++						LINR	0.17213	0.45506		0.99887
92 1,2-Dibromo-3-chloropropane	246	3404	8473	19556	58721	137039					
	+++++						LINR	0.07545	0.10341		0.99176
93 1,2,4-Trichlorobenzene	0.79505	0.56586	0.61107	0.64223	0.67191	0.63570					
	+++++						AVRG		0.65364		11.90974
94 Hexachlorobutadiene	8865	30902	61225	130820	364065	691058					
	+++++						LINR	-0.00034	0.51477		0.99995
95 Naphthalene	1.09962	0.99866	1.11380	1.21126	1.25569	1.22810					
	+++++						AVRG		1.15119		8.49040

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 05-DEC-2005 23:49
End Cal Date : 06-DEC-2005 06:57
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA9.i/120505v9.b/VOA9-8260B-120505.m
Cal Date : 08-Dec-2005 03:53 jef01179

Compound	1 Level 1	5 Level 3	10 Level 4	20 Level 5	50 Level 6	100 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	200 Level 8										
96 1,2,3-Trichlorobenzene	0.49540	0.47096	0.49014	0.49877	0.50012	0.45993					
	+++++						AVRG		0.48589		3.41176
$ 35 Dibromofluoromethane	+++++	0.28839	0.24707	0.24744	0.23484	0.23132					
	+++++						AVRG		0.24981		9.10166
$ 47 Toluene-d8	+++++	1.53128	1.37849	1.37705	1.26404	1.27571					
	+++++						AVRG		1.36531		7.86670
$ 71 Bromofluorobenzene	+++++	1.16591	1.08445	1.06729	0.98171	0.99500					
	+++++						AVRG		1.05887		7.03811

General Engineering Laboratories, LLC

INITIAL CALIBRATION DATA

Start Cal Date : 05-DEC-2005 23:49
End Cal Date : 06-DEC-2005 06:57
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/VOA9.i/120505v9.b/VOA9-8260B-120505.m
Cal Date : 08-Dec-2005 03:53 jef01179

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response

Data File: /chem/VOA9.i/120505v9.b/9n122.d
Report Date: 08-Dec-2005 03:53

General Engineering Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA9.i
Lab File ID: 9n122.d
Analysis Type: WATER
Lab Sample ID: W9VM051205-10
Method: /chem/VOA9.i/120505v9.b/VOA9-8260B-120505.m

Injection Date: 06-DEC-2005 08:18
Init. Cal. Date(s): 05-DEC-2005 06-DEC-2005
Init. Cal. Times: 23:49 06:57
Quant Type: ISTD

	COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
M	1 Xylenes (total)	0.66307	0.61453	0.61453	0.050	-7.32079	40.00000	Averaged	
M	2 1,2-Dichloroethylene (total	0.28497	0.25757	0.25757	0.050	-9.61334	40.00000	Averaged	
M	135 1,3-Dichloropropylene	103	100	0.34101	0.050	3.00587	40.00000	Linear	
	3 Dichlorodifluoromethane	34.57316	50.00000	0.21495	0.050	-30.85368	40.00000	Linear	
	4 Chloromethane	43.44120	50.00000	0.39868	0.100	-13.11760	40.00000	Linear	spcc
	5 Vinyl chloride	0.31362	0.25092	0.25092	0.050	-19.98997	20.00000	Averaged	ccc
	6 Bromomethane	44.09220	50.00000	0.20508	0.050	-11.81560	40.00000	Linear	
	7 Chloroethane	0.23254	0.20463	0.20463	0.050	-12.00290	40.00000	Averaged	
	8 Trichlorofluoromethane	43.20667	50.00000	0.38206	0.050	-13.58667	40.00000	Linear	
	134 Ethyl Ether	0.17446	0.18454	0.18454	0.010	5.77466	40.00000	Averaged	
	10 Acetone	248	250	0.07804	0.040	-0.72706	40.00000	Linear	
	15 Acetonitrile	0.03774	0.03722	0.03722	0.010	-1.39661	40.00000	Averaged	
	11 1,1-Dichloroethylene	0.46567	0.38032	0.38032	0.050	-18.32902	20.00000	Averaged	ccc
	128 Methyl acetate	0.20295	0.21122	0.21122	0.010	4.07807	40.00000	Averaged	
	13 Iodomethane	0.41063	0.39369	0.39369	0.050	-4.12411	40.00000	Averaged	
	17 Methylene chloride	47.37566	50.00000	0.27195	0.050	-5.24869	40.00000	Linear	
	14 Carbon disulfide	0.87891	0.77517	0.77517	0.050	-11.80317	40.00000	Averaged	
	20 tert-Butyl methyl ether	0.61759	0.66601	0.66601	0.050	7.83914	40.00000	Averaged	
	21 trans-1,2-Dichloroethylene	0.28203	0.23876	0.23876	0.050	-15.34515	40.00000	Averaged	
	23 Vinyl acetate	246	250	0.51725	0.010	-1.74138	40.00000	Linear	
	22 1,1-Dichloroethane	0.52938	0.50528	0.50528	0.100	-4.55327	40.00000	Averaged	spcc
	30 2-Butanone	0.12037	0.13856	0.13856	0.030	15.10693	40.00000	Averaged	
	31 cis-1,2-Dichloroethylene	0.28790	0.27639	0.27639	0.050	-3.99820	40.00000	Averaged	
	25 2,2-Dichloropropane	47.94342	50.00000	0.28093	0.050	-4.11315	40.00000	Linear	
	32 Chloroform	0.46927	0.44752	0.44752	0.010	-4.63488	20.00000	Averaged	ccc
	29 Bromochloromethane	0.12713	0.12244	0.12244	0.010	-3.69099	40.00000	Averaged	
$	35 Dibromofluoromethane	0.24981	0.27501	0.27501	0.010	10.08555	40.00000	Averaged	
	36 1,1,1-Trichloroethane	0.33170	0.32549	0.32549	0.010	-1.87067	40.00000	Averaged	
	129 Cyclohexane	0.41050	0.36229	0.36229	0.010	-11.74348	40.00000	Averaged	
	34 1,1-Dichloropropene	0.39298	0.34959	0.34959	0.010	-11.04261	40.00000	Averaged	
	131 n-Butyl alcohol	6868	5000	0.00616	0.002	37.35057	40.00000	Linear	
	33 Carbon tetrachloride	44.47735	50.00000	0.25094	0.010	-11.04531	40.00000	Linear	
	37 1,2-Dichloroethane	0.37696	0.36301	0.36301	0.010	-3.69881	40.00000	Averaged	
	38 Benzene	1.10405	1.00878	1.00878	0.010	-8.62884	40.00000	Averaged	
	39 Trichloroethylene	0.26924	0.25046	0.25046	0.010	-6.97477	40.00000	Averaged	
	41 1,2-Dichloropropane	0.28687	0.28612	0.28612	0.010	-0.25903	20.00000	Averaged	ccc

General Engineering Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA9.i Injection Date: 06-DEC-2005 08:18
Lab File ID: 9n122.d Init. Cal. Date(s): 05-DEC-2005 06-DEC-2005
Analysis Type: WATER Init. Cal. Times: 23:49 06:57
Lab Sample ID: W9VM051205-10 Quant Type: ISTD
Method: /chem/VOA9.i/120505v9.b/VOA9-8260B-120505.m

	COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
	130 Methylcyclohexane	0.48393	0.43334	0.43334	0.010	-10.45412	40.00000	Averaged	
	45 Bromodichloromethane	0.28107	0.30559	0.30559	0.010	8.72240	40.00000	Averaged	
	43 Dibromomethane	0.16145	0.16090	0.16090	0.010	-0.34003	40.00000	Averaged	
	44 2-Chloroethylvinyl ether	236	250	0.16638	0.010	-5.76435	40.00000	Linear	
	49 4-Methyl-2-pentanone	0.14375	0.15618	0.15618	0.010	8.64977	40.00000	Averaged	
	46 cis-1,3-Dichloropropylene	0.33546	0.37586	0.37586	0.010	12.04505	40.00000	Averaged	
$	47 Toluene-d8	1.36531	1.46116	1.46116	0.010	7.02022	40.00000	Averaged	
	50 Toluene	1.00128	0.84761	0.84761	0.010	-15.34816	20.00000	Averaged	ccc
	53 trans-1,3-Dichloropropylene	46.98334	50.00000	0.43923	0.010	-6.03332	40.00000	Linear	
	54 1,1,2-Trichloroethane	0.27220	0.26912	0.26912	0.010	-1.13127	40.00000	Averaged	
	55 2-Hexanone	0.26054	0.28233	0.28233	0.010	8.36200	40.00000	Averaged	
	52 1,3-Dichloropropane	0.54380	0.53858	0.53858	0.010	-0.96012	40.00000	Averaged	
	56 Tetrachloroethylene	45.77265	50.00000	0.26049	0.010	-8.45470	40.00000	Linear	
	57 Dibromochloromethane	46.56759	50.00000	0.27190	0.010	-6.86483	40.00000	Linear	
	59 1,2-Dibromoethane	0.28773	0.30252	0.30252	0.010	5.14153	40.00000	Averaged	
	62 Chlorobenzene	1.01482	0.93515	0.93515	0.300	-7.85129	40.00000	Averaged	spcc
	60 1,1,1,2-Tetrachloroethane	47.27805	50.00000	0.27106	0.010	-5.44389	40.00000	Linear	
	58 Ethylbenzene	1.74610	1.55666	1.55666	0.010	-10.84958	20.00000	Averaged	ccc
	63 m,p-Xylenes	0.67337	0.61478	0.61478	0.010	-8.70047	40.00000	Averaged	
	64 o-Xylene	0.64248	0.61402	0.61402	0.010	-4.42876	40.00000	Averaged	
	65 Styrene	1.02480	1.00800	1.00800	0.010	-1.63868	40.00000	Averaged	
	66 Bromoform	47.42983	50.00000	0.33359	0.100	-5.14034	40.00000	Linear	spcc
	67 Isopropylbenzene	3.39962	2.96269	2.96269	0.010	-12.85218	40.00000	Averaged	
	73 1,1,2,2-Tetrachloroethane	0.88389	0.86590	0.86590	0.300	-2.03541	40.00000	Averaged	spcc
$	71 Bromofluorobenzene	1.05887	1.10422	1.10422	0.010	4.28320	40.00000	Averaged	
	74 1,2,3-Trichloropropane	0.21465	0.23522	0.23522	0.010	9.57997	40.00000	Averaged	
	75 Bromobenzene	0.86961	0.81688	0.81688	0.010	-6.06373	40.00000	Averaged	
	76 n-Propylbenzene	4.46837	3.86398	3.86398	0.010	-13.52593	40.00000	Averaged	
	77 2-Chlorotoluene	2.74352	2.42390	2.42390	0.010	-11.64989	40.00000	Averaged	
	78 1,3,5-Trimethylbenzene	2.99273	2.69576	2.69576	0.010	-9.92286	40.00000	Averaged	
	80 4-Chlorotoluene	2.89990	2.62193	2.62193	0.010	-9.58558	40.00000	Averaged	
	81 tert-Butylbenzene	2.84657	2.63724	2.63724	0.010	-7.35388	40.00000	Averaged	
	79 1,2,4-Trimethylbenzene	3.01612	2.73489	2.73489	0.010	-9.32442	40.00000	Averaged	
	83 sec-Butylbenzene	4.13024	3.78398	3.78398	0.010	-8.38362	40.00000	Averaged	
	84 4-Isopropyltoluene	3.01884	2.88344	2.88344	0.010	-4.48526	40.00000	Averaged	

General Engineering Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA9.i
Lab File ID: 9n122.d
Analysis Type: WATER
Lab Sample ID: W9VM051205-10
Method: /chem/VOA9.i/120505v9.b/VOA9-8260B-120505.m

Injection Date: 06-DEC-2005 08:18
Init. Cal. Date(s): 05-DEC-2005 06-DEC-2005
Init. Cal. Times: 23:49 06:57
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
85 1,3-Dichlorobenzene	47.39657	50.00000	1.48253	0.010	-5.20686	40.00000	Linear
87 1,4-Dichlorobenzene	47.06335	50.00000	1.45884	0.010	-5.87330	40.00000	Linear
89 n-Butylbenzene	1.65714	1.53278	1.53278	0.010	-7.50446	40.00000	Averaged
90 1,2-Dichlorobenzene	1.53859	1.41928	1.41928	0.010	-7.75512	40.00000	Averaged
92 1,2-Dibromo-3-chloropropane	49.85198	50.00000	0.09530	0.010	-0.29604	40.00000	Linear
93 1,2,4-Trichlorobenzene	0.65364	0.62797	0.62797	0.010	-3.92728	40.00000	Averaged
94 Hexachlorobutadiene	50.68378	50.00000	0.52198	0.010	1.36757	40.00000	Linear
95 Naphthalene	1.15119	1.32777	1.32777	0.010	15.33957	40.00000	Averaged
96 1,2,3-Trichlorobenzene	0.48589	0.49493	0.49493	0.010	1.86218	40.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 8.05042
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

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VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA9.i/120505v9.b/9n122.d
Lab Smp Id: W9VM051205-10 Client Smp ID: VSTD050
Inj Date : 06-DEC-2005 08:18
Operator : GRB2 Inst ID: VOA9.i
Smp Info : |W9VM051205-10|ICV|1|VOAF|1|
Misc Info : VBLK01LCS UVM051119-01D+IVM051205-02
Comment :
Method : /chem/VOA9.i/120505v9.b/VOA9-8260B-120505.m
Meth Date : 08-Dec-2005 03:53 jef01179 Quant Type: ISTD
Cal Date : 06-DEC-2005 05:37 Cal File: 9n116.d
Als bottle: 22 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CALsubL+.sub
Target Version: 3.50
Processing Host: hpclp1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	sample purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
M 1 Xylenes (total)	106				2885550	150.000	139
M 2 1,2-Dichloroethylene (total)	96				1156781	100.000	90.3
M 135 1,3-Dichloropropylene	75				1531504	100.000	103
3 Dichlorodifluoromethane	85	1.785	1.785	(0.404)	482678	50.0000	34.6(Q)
4 Chloromethane	50	1.882	1.882	(0.425)	895258	50.0000	43.4
5 Vinyl chloride	62	1.978	1.978	(0.447)	563465	50.0000	40.0
6 Bromomethane	94	2.195	2.195	(0.496)	460523	50.0000	44.1
7 Chloroethane	64	2.226	2.226	(0.503)	459513	50.0000	44.0
8 Trichlorofluoromethane	101	2.424	2.424	(0.548)	857940	50.0000	43.2
134 Ethyl Ether	59	2.512	2.512	(0.568)	414393	50.0000	52.9
10 Acetone	43	2.569	2.569	(0.581)	876163	250.000	248
15 Acetonitrile	41	2.679	2.679	(0.605)	2089254	1250.00	1230
11 1,1-Dichloroethylene	61	2.711	2.711	(0.613)	854029	50.0000	40.8
128 Methyl acetate	43	2.813	2.813	(0.636)	2371579	250.000	260
13 Iodomethane	142	2.855	2.855	(0.645)	4420281	250.000	240

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
17 Methylene chloride	84	2.926	2.926	(0.661)	610687	50.0000	47.4
14 Carbon disulfide	76	2.996	2.996	(0.677)	8703422	250.000	220
20 tert-Butyl methyl ether	73	3.035	3.035	(0.686)	1495555	50.0000	53.9
21 trans-1,2-Dichloroethylene	96	3.099	3.099	(0.700)	536139	50.0000	42.3
23 Vinyl acetate	43	3.279	3.279	(0.741)	5807580	250.000	246
22 1,1-Dichloroethane	63	3.307	3.307	(0.748)	1134624	50.0000	47.7
30 2-Butanone	43	3.503	3.503	(0.792)	1555701	250.000	288
31 cis-1,2-Dichloroethylene	96	3.644	3.644	(0.824)	620642	50.0000	48.0
25 2,2-Dichloropropane	77	3.651	3.651	(0.825)	630838	50.0000	47.9
32 Chloroform	83	3.744	3.744	(0.846)	1004933	50.0000	47.7
29 Bromochloromethane	128	3.827	3.827	(0.865)	274936	50.0000	48.2
$ 35 Dibromofluoromethane	113	3.863	3.863	(0.873)	617545	50.0000	55.0
36 1,1,1-Trichloroethane	97	4.026	4.026	(0.910)	730915	50.0000	49.1(Q)
129 Cyclohexane	84	4.100	4.100	(0.927)	813542	50.0000	44.1
34 1,1-Dichloropropene	75	4.129	4.129	(0.933)	785018	50.0000	44.5
131 n-Butyl alcohol	41	4.145	4.145	(0.937)	1383924	5000.00	6870
33 Carbon tetrachloride	117	4.212	4.212	(0.952)	563506	50.0000	44.5
37 1,2-Dichloroethane	62	4.232	4.232	(0.956)	815169	50.0000	48.2
38 Benzene	78	4.289	4.289	(0.970)	2265283	50.0000	45.7
* 40 Fluorobenzene	96	4.424	4.424	(1.000)	2245557	50.0000	
39 Trichloroethylene	95	4.732	4.732	(1.070)	562427	50.0000	46.5
41 1,2-Dichloropropane	63	4.832	4.832	(1.092)	642505	50.0000	49.9
130 Methylcyclohexane	83	4.864	4.864	(1.099)	973085	50.0000	44.8
45 Bromodichloromethane	83	4.992	4.992	(1.128)	686210	50.0000	54.4
43 Dibromomethane	93	5.018	5.018	(1.134)	361318	50.0000	49.8
44 2-Chloroethylvinyl ether	63	5.217	5.217	(1.179)	1868036	250.000	236
49 4-Methyl-2-pentanone	58	5.268	5.268	(0.735)	1222258	250.000	272
46 cis-1,3-Dichloropropylene	75	5.432	5.432	(1.228)	844024	50.0000	56.0
$ 47 Toluene-d8	98	5.692	5.692	(0.794)	2286992	50.0000	53.5
50 Toluene	92	5.762	5.762	(0.804)	1326662	50.0000	42.3
53 trans-1,3-Dichloropropylene	75	5.858	5.858	(0.818)	687480	50.0000	47.0
54 1,1,2-Trichloroethane	83	6.009	6.009	(0.839)	421229	50.0000	49.4
55 2-Hexanone	43	6.038	6.038	(0.843)	2209464	250.000	271
52 1,3-Dichloropropane	76	6.247	6.247	(0.872)	842980	50.0000	49.5
56 Tetrachloroethylene	164	6.410	6.410	(0.895)	407721	50.0000	45.8
57 Dibromochloromethane	129	6.507	6.507	(0.908)	425575	50.0000	46.6
59 1,2-Dibromoethane	107	6.718	6.718	(0.938)	473502	50.0000	52.6
* 61 Chlorobenzene-d5	117	7.164	7.164	(1.000)	1565187	50.0000	
62 Chlorobenzene	112	7.206	7.206	(1.006)	1463677	50.0000	46.1
60 1,1,1,2-Tetrachloroethane	131	7.248	7.248	(1.012)	424258	50.0000	47.3
58 Ethylbenzene	91	7.296	7.296	(1.018)	2436461	50.0000	44.6
63 m,p-Xylenes	106	7.392	7.392	(1.032)	1924489	100.000	91.3
64 o-Xylene	106	7.877	7.877	(1.099)	961061	50.0000	47.8
65 Styrene	104	7.890	7.890	(1.101)	1577716	50.0000	49.2
66 Bromoform	173	8.194	8.194	(0.812)	237174	50.0000	47.4
67 Isopropylbenzene	105	8.326	8.326	(0.825)	2106422	50.0000	43.6
73 1,1,2,2-Tetrachloroethane	83	8.432	8.432	(0.835)	615637	50.0000	49.0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
$ 71 Bromofluorobenzene	95	8.567	8.567	(0.849)	785084	50.0000	52.1
74 1,2,3-Trichloropropane	110	8.612	8.612	(0.853)	167236	50.0000	54.8
75 Bromobenzene	156	8.788	8.788	(0.871)	580785	50.0000	47.0
76 n-Propylbenzene	91	8.823	8.823	(0.874)	2747219	50.0000	43.2
77 2-Chlorotoluene	91	9.000	9.000	(0.892)	1723352	50.0000	44.2
78 1,3,5-Trimethylbenzene	105	9.035	9.035	(0.895)	1916640	50.0000	45.0
80 4-Chlorotoluene	91	9.064	9.064	(0.898)	1864144	50.0000	45.2
81 tert-Butylbenzene	119	9.488	9.488	(0.940)	1875031	50.0000	46.3
79 1,2,4-Trimethylbenzene	105	9.529	9.529	(0.944)	1944456	50.0000	45.3
83 sec-Butylbenzene	105	9.776	9.776	(0.969)	2690342	50.0000	45.8
84 4-Isopropyltoluene	119	9.966	9.966	(0.987)	2050072	50.0000	47.8
85 1,3-Dichlorobenzene	146	10.004	10.004	(0.991)	1054051	50.0000	47.4
* 86 1,4-Dichlorobenzene-d4	152	10.094	10.094	(1.000)	710982	50.0000	
87 1,4-Dichlorobenzene	146	10.136	10.136	(1.004)	1037209	50.0000	47.1
89 n-Butylbenzene	92	10.540	10.540	(1.044)	1089782	50.0000	46.2
90 1,2-Dichlorobenzene	146	10.643	10.643	(1.054)	1009079	50.0000	46.1
92 1,2-Dibromo-3-chloropropane	75	11.747	11.747	(1.164)	67758	50.0000	49.8(Q)
93 1,2,4-Trichlorobenzene	180	12.799	12.799	(1.268)	446473	50.0000	48.0
94 Hexachlorobutadiene	225	12.998	12.998	(1.288)	371119	50.0000	50.7
95 Naphthalene	128	13.004	13.004	(1.288)	944024	50.0000	57.7
96 1,2,3-Trichlorobenzene	180	13.261	13.261	(1.314)	351889	50.0000	50.9

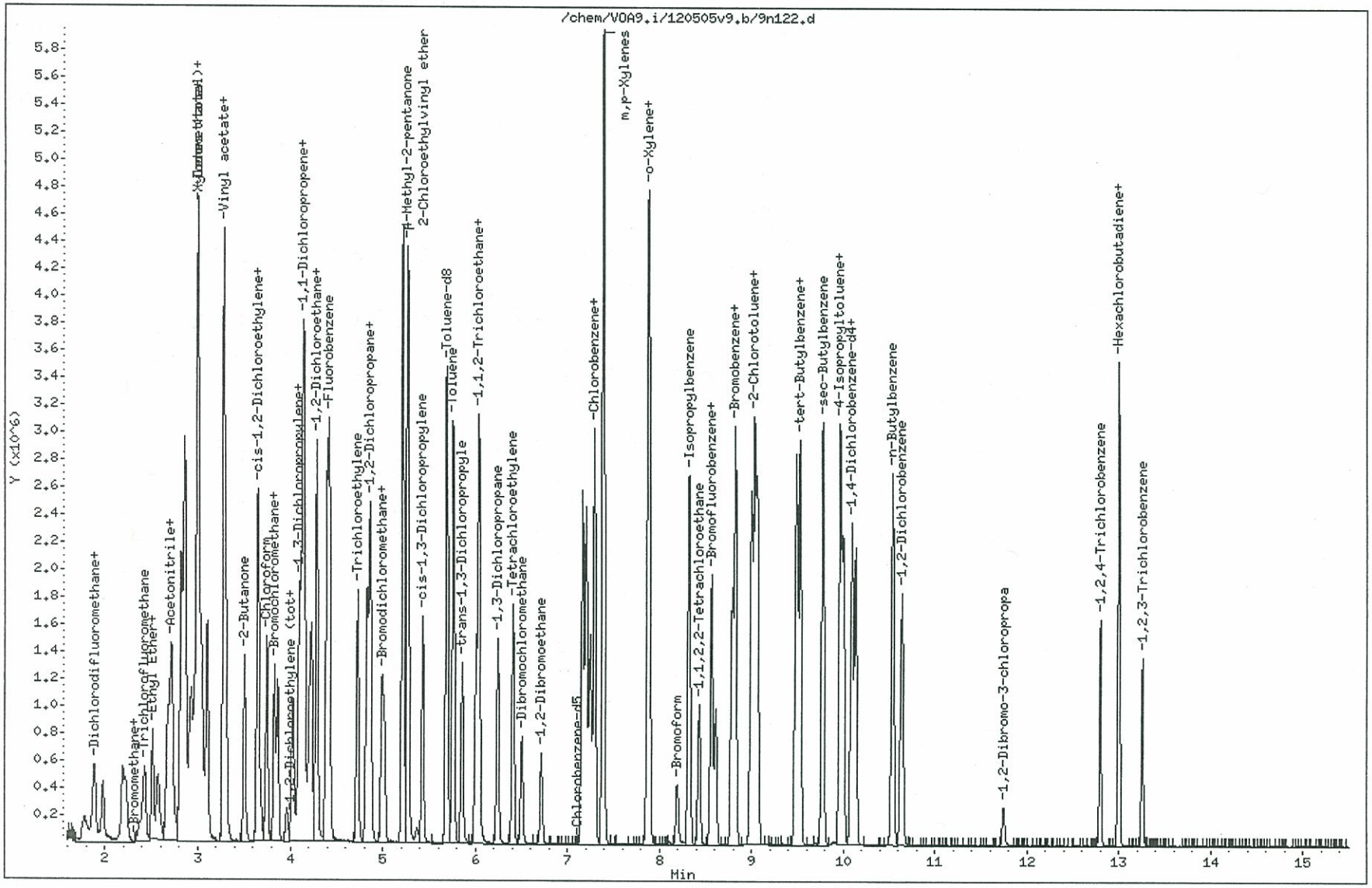
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/VOA9.i/120505v9.b/9n122.d
Date : 06-DEC-2005 08:18
Client ID: VSTD050
Sample Info: |W9VM051205-10|ICV|1|VOAF|1|
Purge Volume: 5.0
Column phase: RTX-Volatiles

Instrument: VOA9.i

Operator: GRB2
Column diameter: 0.25



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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA9.i
Lab File ID: 9n124.d
Analysis Type: WATER
Lab Sample ID: UVM051202-01A
Method: /chem/VOA9.i/120505v9.b/VOA9-8260B-120505.m

Injection Date: 06-DEC-2005 09:12
Init. Cal. Date(s): 05-DEC-2005 06-DEC-2005
Init. Cal. Times: 23:49 06:57
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
9 Acrolein	0.04327	0.04216	0.04216	0.001	-2.57206	40.00000	Averaged
12 Trichlorotrifluoroethane	0.09536	0.09218	0.09218	0.050	-3.33068	40.00000	Averaged
16 Allyl chloride	0.12887	0.13698	0.13698	0.010	6.29816	40.00000	Averaged
18 Acrylonitrile	0.09770	0.10482	0.10482	0.010	7.28806	40.00000	Averaged
24 2-Chloro-1,3-butadiene	0.36462	0.38437	0.38437	0.010	5.41563	40.00000	Averaged
28 Propionitrile	0.03666	0.04106	0.04106	0.010	11.99810	40.00000	Averaged
26 Ethyl acetate	0.24740	0.26282	0.26282	0.010	6.23541	40.00000	Averaged
27 Methacrylonitrile	0.17037	0.17879	0.17879	0.010	4.94356	40.00000	Averaged
19 Isobutyl alcohol	2412	2500	0.01047	0.004	-3.50881	40.00000	Linear
72 Tetrahydrofuran	233	250	0.31504	0.010	-6.82355	40.00000	Linear
42 Methyl methacrylate	0.14831	0.17791	0.17791	0.010	19.95901	40.00000	Averaged
51 Ethyl methacrylate	245	250	0.42837	0.010	-1.85519	40.00000	Linear
97 1,4-Dioxane	0.00273	0.00303	0.00303	0.001	10.82788	40.00000	Averaged
48 2-Nitropropane	0.02972	0.04219	0.04219	0.010	41.96306	40.00000	Averaged <-
70 Cyclohexanone	1509	1250	0.01846	0.002	20.69353	40.00000	Linear
68 cis-1,4-Dichloro-2-butene	236	250	0.30126	0.010	-5.40487	40.00000	Linear
69 trans-1,4-Dichloro-2-butene	232	250	0.27268	0.010	-7.31248	40.00000	Linear
82 Pentachloroethane	233	250	0.39114	0.010	-6.61398	40.00000	Linear
88 Benzyl chloride	216	250	0.87485	0.010	-13.78798	40.00000	Linear
91 bis(2-Chloroisopropyl)ether	219	250	0.38269	0.010	-12.46014	40.00000	Linear
$ 35 Dibromofluoromethane	0.24981	0.27641	0.27641	0.010	10.64810	40.00000	Averaged
$ 47 Toluene-d8	1.36531	1.46744	1.46744	0.010	7.48006	40.00000	Averaged
$ 71 Bromofluorobenzene	1.05887	1.14075	1.14075	0.010	7.73272	40.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 9.78926
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

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VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA9.i/120505v9.b/9n124.d
Lab Smp Id: UVM051202-01A Client Smp ID: VSTD250S
Inj Date : 06-DEC-2005 09:12
Operator : GRB2 Inst ID: VOA9.i
Smp Info : |UVM051202-01A|SHORTICV|1|VOAF|1|
Misc Info : VBLK01SLCS VSTD250S
Comment :
Method : /chem/VOA9.i/120505v9.b/VOA9-8260B-120505.m
Meth Date : 08-Dec-2005 03:34 jef01179 Quant Type: ISTD
Cal Date : 06-DEC-2005 05:37 Cal File: 9n116.d
Als bottle: 24 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CALsubS+SS.sub
Target Version: 3.50
Processing Host: hpclp1

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	sample purged

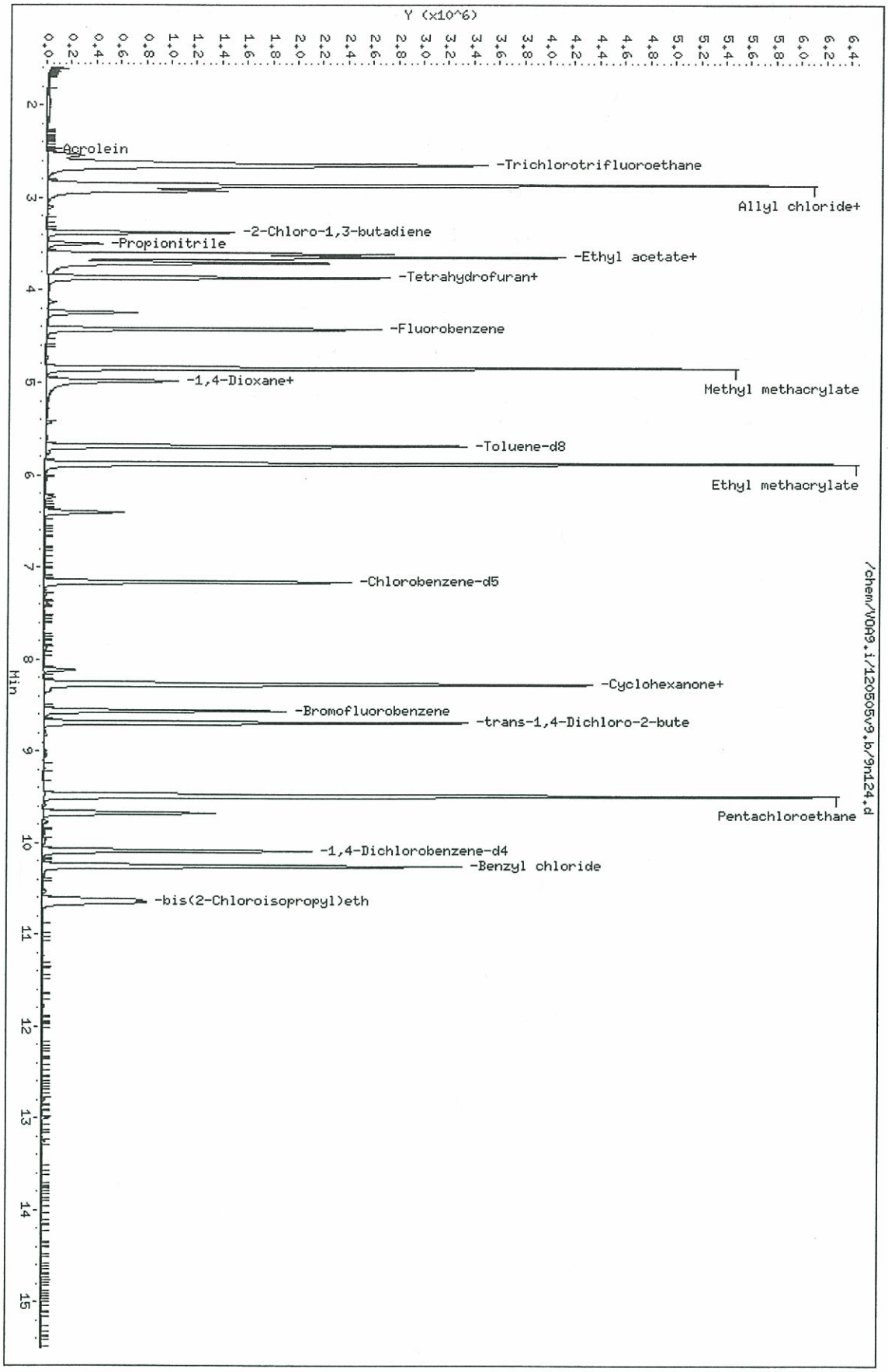
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
9 Acrolein	56	2.541	2.541	(0.574)	454264	250.000	244
12 Trichlorotrifluoroethane	85	2.650	2.650	(0.599)	993240	250.000	242
16 Allyl chloride	76	2.865	2.865	(0.648)	1475954	250.000	266
18 Acrylonitrile	53	2.922	2.922	(0.661)	1129422	250.000	268
24 2-Chloro-1,3-butadiene	53	3.378	3.378	(0.764)	828295	50.0000	52.7
28 Propionitrile	54	3.500	3.500	(0.791)	442411	250.000	280
26 Ethyl acetate	43	3.609	3.609	(0.816)	2831867	250.000	266
27 Methacrylonitrile	41	3.644	3.644	(0.824)	1926470	250.000	262
19 Isobutyl alcohol	41	3.702	3.702	(0.837)	1127846	2500.00	2410
72 Tetrahydrofuran	42	3.866	3.866	(0.383)	1029079	250.000	233
42 Methyl methacrylate	69	4.848	4.848	(1.096)	1916904	250.000	300
* 40 Fluorobenzene	96	4.424	4.424	(1.000)	2154958	50.0000	
51 Ethyl methacrylate	69	5.884	5.884	(0.822)	3221736	250.000	245
97 1,4-Dioxane	88	4.979	4.979	(1.125)	326276	2500.00	2770
48 2-Nitropropane	43	4.986	4.986	(1.127)	454553	250.000	355

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 61 Chlorobenzene-d5	117	7.161	7.161	(1.000)	1504170	50.0000	
70 Cyclohexanone	55	8.265	8.265	(1.154)	694202	1250.00	1510
68 cis-1,4-Dichloro-2-butene	53	8.278	8.278	(0.820)	984068	250.000	236
69 trans-1,4-Dichloro-2-butene	53	8.695	8.695	(0.861)	890716	250.000	232
82 Pentachloroethane	167	9.494	9.494	(0.941)	1277654	250.000	233
* 86 1,4-Dichlorobenzene-d4	152	10.094	10.094	(1.000)	653296	50.0000	
88 Benzyl chloride	91	10.261	10.261	(1.017)	2857695	250.000	216
91 bis(2-Chloroisopropyl)ether	45	10.649	10.649	(1.055)	1250062	250.000	219
$ 35 Dibromofluoromethane	113	3.866	3.866	(0.874)	595658	50.0000	55.3
$ 47 Toluene-d8	98	5.692	5.692	(0.795)	2207280	50.0000	53.7
$ 71 Bromofluorobenzene	95	8.567	8.567	(0.849)	745248	50.0000	53.9

Data File: /chem/VOA9.i/120505v9.b/9n124.d
Date : 06-DEC-2005 09:12
Client ID: VSTD250S
Sample Info: |UWH051202-01A|SHORTICV|1|VOAF|1|
Purge Volume: 5.0
Column phase: RTX-Volatiles

Instrument: VOA9.i
Operator: GRB2
Column diameter: 0.25



General Engineering Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA9.i Injection Date: 03-JAN-2006 18:51
Lab File ID: 9r102.d Init. Cal. Date(s): 05-DEC-2005 06-DEC-2005
Analysis Type: WATER Init. Cal. Times: 23:49 06:57
Lab Sample ID: W9V060103-01 Quant Type: ISTD
Method: /chem/VOA9.i/010306v9.b/VOA9-8260B-120505.m

	COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
M	1 Xylenes (total)	0.66307	0.63775	0.63775	0.050	-3.81875	40.00000	Averaged	
M	2 1,2-Dichloroethylene (total	0.28497	0.28526	0.28526	0.050	0.10261	40.00000	Averaged	
M	135 1,3-Dichloropropylene	113	100	0.37779	0.050	13.34738	40.00000	Linear	
	3 Dichlorodifluoromethane	51.71367	50.00000	0.32014	0.050	3.42735	40.00000	Linear	
	4 Chloromethane	52.50260	50.00000	0.47878	0.100	5.00521	40.00000	Linear	spcc
	5 Vinyl chloride	0.31362	0.28250	0.28250	0.050	-9.92321	20.00000	Averaged	ccc
	6 Bromomethane	45.56806	50.00000	0.21185	0.050	-8.86388	40.00000	Linear	
	7 Chloroethane	0.23254	0.22481	0.22481	0.050	-3.32656	40.00000	Averaged	
	8 Trichlorofluoromethane	53.57817	50.00000	0.47325	0.050	7.15635	40.00000	Linear	
	134 Ethyl Ether	0.17446	0.19333	0.19333	0.010	10.81587	40.00000	Averaged	
	10 Acetone	326	250	0.10114	0.040	30.34269	40.00000	Linear	
	15 Acetonitrile	0.03774	0.04627	0.04627	0.010	22.59035	40.00000	Averaged	
	11 1,1-Dichloroethylene	0.46567	0.44711	0.44711	0.050	-3.98700	20.00000	Averaged	ccc
	128 Methyl acetate	0.20295	0.29834	0.29834	0.010	47.00575	40.00000	Averaged	<-
	13 Iodomethane	0.41063	0.41540	0.41540	0.050	1.16183	40.00000	Averaged	
	17 Methylene chloride	41.87005	50.00000	0.24162	0.050	-16.25991	40.00000	Linear	
	14 Carbon disulfide	0.87891	0.88964	0.88964	0.050	1.22060	40.00000	Averaged	
	20 tert-Butyl methyl ether	0.61759	0.71793	0.71793	0.050	16.24736	40.00000	Averaged	
	21 trans-1,2-Dichloroethylene	0.28203	0.27560	0.27560	0.050	-2.28295	40.00000	Averaged	
	23 Vinyl acetate	246	250	0.51880	0.010	-1.45108	40.00000	Linear	
	22 1,1-Dichloroethane	0.52938	0.53526	0.53526	0.100	1.11149	40.00000	Averaged	spcc
	30 2-Butanone	0.12037	0.16448	0.16448	0.030	36.63764	40.00000	Averaged	
	31 cis-1,2-Dichloroethylene	0.28790	0.29492	0.29492	0.050	2.43967	40.00000	Averaged	
	25 2,2-Dichloropropane	64.93757	50.00000	0.38679	0.050	29.87514	40.00000	Linear	
	32 Chloroform	0.46927	0.47790	0.47790	0.010	1.83973	20.00000	Averaged	ccc
	29 Bromochloromethane	0.12713	0.11995	0.11995	0.010	-5.64832	40.00000	Averaged	
$	35 Dibromofluoromethane	0.24981	0.29910	0.29910	0.010	19.72813	40.00000	Averaged	
	36 1,1,1-Trichloroethane	0.33170	0.38187	0.38187	0.010	15.12640	40.00000	Averaged	
	129 Cyclohexane	0.41050	0.40675	0.40675	0.010	-0.91349	40.00000	Averaged	
	34 1,1-Dichloropropene	0.39298	0.38266	0.38266	0.010	-2.62604	40.00000	Averaged	
	131 n-Butyl alcohol	9677	5000	0.00872	0.002	93.54412	40.00000	Linear	<-
	33 Carbon tetrachloride	53.10702	50.00000	0.30295	0.010	6.21404	40.00000	Linear	
	37 1,2-Dichloroethane	0.37696	0.37168	0.37168	0.010	-1.39933	40.00000	Averaged	
	38 Benzene	1.10405	1.04498	1.04498	0.010	-5.35086	40.00000	Averaged	
	39 Trichloroethylene	0.26924	0.26034	0.26034	0.010	-3.30654	40.00000	Averaged	
	41 1,2-Dichloropropane	0.28687	0.29152	0.29152	0.010	1.62134	20.00000	Averaged	ccc

General Engineering Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA9.i
Lab File ID: 9r102.d
Analysis Type: WATER
Lab Sample ID: W9V060103-01
Method: /chem/VOA9.i/010306v9.b/VOA9-8260B-120505.m

Injection Date: 03-JAN-2006 18:51
Init. Cal. Date(s): 05-DEC-2005 06-DEC-2005
Init. Cal. Times: 23:49 06:57
Quant Type: ISTD

	COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
	130 Methylcyclohexane	0.48393	0.48552	0.48552	0.010	0.32937	40.00000	Averaged	
	45 Bromodichloromethane	0.28107	0.32859	0.32859	0.010	16.90580	40.00000	Averaged	
	43 Dibromomethane	0.16145	0.16806	0.16806	0.010	4.09090	40.00000	Averaged	
	44 2-Chloroethylvinyl ether	266	250	0.18850	0.010	6.52727	40.00000	Linear	
	49 4-Methyl-2-pentanone	0.14375	0.17505	0.17505	0.010	21.77339	40.00000	Averaged	
	46 cis-1,3-Dichloropropylene	0.33546	0.40036	0.40036	0.010	19.34871	40.00000	Averaged	
$	47 Toluene-d8	1.36531	1.50439	1.50439	0.010	10.18619	40.00000	Averaged	
	50 Toluene	1.00128	0.88860	0.88860	0.010	-11.25362	20.00000	Averaged	ccc
	53 trans-1,3-Dichloropropylene	53.67302	50.00000	0.50625	0.010	7.34604	40.00000	Linear	
	54 1,1,2-Trichloroethane	0.27220	0.27113	0.27113	0.010	-0.39292	40.00000	Averaged	
	55 2-Hexanone	0.26054	0.32469	0.32469	0.010	24.62349	40.00000	Averaged	
	52 1,3-Dichloropropane	0.54380	0.55726	0.55726	0.010	2.47558	40.00000	Averaged	
	56 Tetrachloroethylene	49.24727	50.00000	0.28042	0.010	-1.50547	40.00000	Linear	
	57 Dibromochloromethane	53.42170	50.00000	0.31447	0.010	6.84341	40.00000	Linear	
	59 1,2-Dibromoethane	0.28773	0.31516	0.31516	0.010	9.53394	40.00000	Averaged	
	62 Chlorobenzene	1.01482	0.95133	0.95133	0.300	-6.25657	40.00000	Averaged	spcc
	60 1,1,1,2-Tetrachloroethane	53.32667	50.00000	0.30762	0.010	6.65334	40.00000	Linear	
	58 Ethylbenzene	1.74610	1.64940	1.64940	0.010	-5.53840	20.00000	Averaged	ccc
	63 m,p-Xylenes	0.67337	0.64315	0.64315	0.010	-4.48682	40.00000	Averaged	
	64 o-Xylene	0.64248	0.62694	0.62694	0.010	-2.41835	40.00000	Averaged	
	65 Styrene	1.02480	1.00726	1.00726	0.010	-1.71114	40.00000	Averaged	
	66 Bromoform	59.55097	50.00000	0.42667	0.100	19.10195	40.00000	Linear	spcc
	67 Isopropylbenzene	3.39962	3.44366	3.44366	0.010	1.29541	40.00000	Averaged	
	73 1,1,2,2-Tetrachloroethane	0.88389	1.00564	1.00564	0.300	13.77462	40.00000	Averaged	spcc
$	71 Bromofluorobenzene	1.05887	1.22231	1.22231	0.010	15.43501	40.00000	Averaged	
	74 1,2,3-Trichloropropane	0.21465	0.26728	0.26728	0.010	24.51620	40.00000	Averaged	
	75 Bromobenzene	0.86961	0.87680	0.87680	0.010	0.82653	40.00000	Averaged	
	76 n-Propylbenzene	4.46837	4.62127	4.62127	0.010	3.42185	40.00000	Averaged	
	77 2-Chlorotoluene	2.74352	2.71250	2.71250	0.010	-1.13061	40.00000	Averaged	
	78 1,3,5-Trimethylbenzene	2.99273	2.97396	2.97396	0.010	-0.62714	40.00000	Averaged	
	80 4-Chlorotoluene	2.89990	2.98932	2.98932	0.010	3.08355	40.00000	Averaged	
	81 tert-Butylbenzene	2.84657	2.89322	2.89322	0.010	1.63858	40.00000	Averaged	
	79 1,2,4-Trimethylbenzene	3.01612	2.98986	2.98986	0.010	-0.87073	40.00000	Averaged	
	83 sec-Butylbenzene	4.13024	4.14110	4.14110	0.010	0.26289	40.00000	Averaged	
	84 4-Isopropyltoluene	3.01884	3.13251	3.13251	0.010	3.76533	40.00000	Averaged	

General Engineering Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA9.i
Lab File ID: 9r102.d
Analysis Type: WATER
Lab Sample ID: W9V060103-01
Method: /chem/VOA9.i/010306v9.b/VOA9-8260B-120505.m

Injection Date: 03-JAN-2006 18:51
Init. Cal. Date(s): 05-DEC-2005 06-DEC-2005
Init. Cal. Times: 23:49 06:57
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
85 1,3-Dichlorobenzene	53.26311	50.00000	1.66500	0.010	6.52623	40.00000	Linear	
87 1,4-Dichlorobenzene	52.34515	50.00000	1.62168	0.010	4.69030	40.00000	Linear	
89 n-Butylbenzene	1.65714	1.75140	1.75140	0.010	5.68801	40.00000	Averaged	
90 1,2-Dichlorobenzene	1.53859	1.53267	1.53267	0.010	-0.38541	40.00000	Averaged	
92 1,2-Dibromo-3-chloropropane	74.10113	50.00000	0.14545	0.010	48.20227	40.00000	Linear	<-
93 1,2,4-Trichlorobenzene	0.65364	0.83410	0.83410	0.010	27.60969	40.00000	Averaged	
94 Hexachlorobutadiene	54.39302	50.00000	0.56017	0.010	8.78605	40.00000	Linear	
95 Naphthalene	1.15119	1.75590	1.75590	0.010	52.52982	40.00000	Averaged	<-
96 1,2,3-Trichlorobenzene	0.48589	0.71382	0.71382	0.010	46.91159	40.00000	Averaged	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 11.21249
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

General Engineering Laboratories, LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA9.i/010306v9.b/9r102.d
Lab Smp Id: W9V060103-01 Client Smp ID: VSTD050
Inj Date : 03-JAN-2006 18:51
Operator : TLW Inst ID: VOA9.i
Smp Info : |W9V060103-01|CCV|1|VOAF|1|
Misc Info : VSTD050 UVM051216-08A+UVM051216-17B
Comment :
Method : /chem/VOA9.i/010306v9.b/VOA9-8260B-120505.m
Meth Date : 03-Jan-2006 22:58 tcl Quant Type: ISTD
Cal Date : 06-DEC-2005 05:37 Cal File: 9n116.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CALsubL+.sub
Target Version: 3.50
Processing Host: prdsvr07

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	sample purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
M 1 Xylenes (total)	106				2768329	150.000	144
M 2 1,2-Dichloroethylene (total)	96				1176499	100.000	100
M 135 1,3-Dichloropropylene	75				1558129	100.000	113
3 Dichlorodifluoromethane	85	1.783	1.783	(0.403)	660184	50.0000	51.7(Q)
4 Chloromethane	50	1.889	1.889	(0.427)	987316	50.0000	52.5
5 Vinyl chloride	62	1.976	1.976	(0.447)	582552	50.0000	45.0
6 Bromomethane	94	2.193	2.193	(0.496)	436868	50.0000	45.6
7 Chloroethane	64	2.227	2.227	(0.503)	463592	50.0000	48.3
8 Trichlorofluoromethane	101	2.419	2.419	(0.547)	975924	50.0000	53.6
134 Ethyl Ether	59	2.511	2.511	(0.568)	398687	50.0000	55.4
10 Acetone	43	2.566	2.566	(0.580)	1042846	250.000	326
15 Acetonitrile	41	2.675	2.675	(0.605)	2385366	1250.00	1530
11 1,1-Dichloroethylene	61	2.707	2.707	(0.612)	922007	50.0000	48.0
128 Methyl acetate	43	2.813	2.813	(0.636)	3076182	250.000	368
13 Iodomethane	142	2.855	2.855	(0.645)	4283083	250.000	253

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	17 Methylene chloride	84	2.919	2.919	(0.660)	498256	50.0000	41.9
	14 Carbon disulfide	76	2.996	2.996	(0.677)	9172872	250.000	253
	20 tert-Butyl methyl ether	73	3.037	3.037	(0.687)	1480500	50.0000	58.1
	21 trans-1,2-Dichloroethylene	96	3.098	3.098	(0.700)	568323	50.0000	48.8
	23 Vinyl acetate	43	3.278	3.278	(0.741)	5349242	250.000	246
	22 1,1-Dichloroethane	63	3.307	3.307	(0.748)	1103801	50.0000	50.6
	30 2-Butanone	43	3.503	3.503	(0.792)	1695877	250.000	342
	31 cis-1,2-Dichloroethylene	96	3.644	3.644	(0.824)	608176	50.0000	51.2
	25 2,2-Dichloropropane	77	3.654	3.654	(0.826)	797621	50.0000	64.9
	32 Chloroform	83	3.743	3.743	(0.846)	985517	50.0000	50.9
	29 Bromochloromethane	128	3.830	3.830	(0.866)	247351	50.0000	47.2
$	35 Dibromofluoromethane	113	3.865	3.865	(0.874)	616785	50.0000	59.9
	36 1,1,1-Trichloroethane	97	4.026	4.026	(0.910)	787485	50.0000	57.6(Q)
	129 Cyclohexane	84	4.100	4.100	(0.927)	838778	50.0000	49.5
	34 1,1-Dichloropropene	75	4.128	4.128	(0.933)	789114	50.0000	48.7
	131 n-Butyl alcohol	41	4.148	4.148	(0.938)	1798570	5000.00	9680
	33 Carbon tetrachloride	117	4.209	4.209	(0.951)	624738	50.0000	53.1
	37 1,2-Dichloroethane	62	4.234	4.234	(0.957)	766470	50.0000	49.3
	38 Benzene	78	4.286	4.286	(0.969)	2154911	50.0000	47.3
*	40 Fluorobenzene	96	4.424	4.424	(1.000)	2062165	50.0000	
	39 Trichloroethylene	95	4.728	4.728	(1.069)	536861	50.0000	48.3
	41 1,2-Dichloropropane	63	4.828	4.828	(1.091)	601156	50.0000	50.8
	130 Methylcyclohexane	83	4.863	4.863	(1.099)	1001227	50.0000	50.2
	45 Bromodichloromethane	83	4.992	4.992	(1.128)	677600	50.0000	58.4
	43 Dibromomethane	93	5.021	5.021	(1.135)	346562	50.0000	52.0
	44 2-Chloroethylvinyl ether	63	5.216	5.216	(1.179)	1943612	250.000	266
	49 4-Methyl-2-pentanone	58	5.271	5.271	(0.736)	1266390	250.000	304
	46 cis-1,3-Dichloropropylene	75	5.434	5.434	(1.228)	825618	50.0000	59.7
$	47 Toluene-d8	98	5.691	5.691	(0.794)	2176742	50.0000	55.1
	50 Toluene	92	5.762	5.762	(0.804)	1285747	50.0000	44.4
	53 trans-1,3-Dichloropropylene	75	5.858	5.858	(0.818)	732511	50.0000	53.7
	54 1,1,2-Trichloroethane	83	6.006	6.006	(0.838)	392311	50.0000	49.8
	55 2-Hexanone	43	6.038	6.038	(0.843)	2349042	250.000	312
	52 1,3-Dichloropropane	76	6.246	6.246	(0.872)	806322	50.0000	51.2
	56 Tetrachloroethylene	164	6.410	6.410	(0.895)	405748	50.0000	49.2
	57 Dibromochloromethane	129	6.503	6.503	(0.908)	455010	50.0000	53.4
	59 1,2-Dibromoethane	107	6.715	6.715	(0.937)	456013	50.0000	54.8
*	61 Chlorobenzene-d5	117	7.164	7.164	(1.000)	1446929	50.0000	
	62 Chlorobenzene	112	7.202	7.202	(1.005)	1376505	50.0000	46.9
	60 1,1,1,2-Tetrachloroethane	131	7.247	7.247	(1.012)	445101	50.0000	53.3
	58 Ethylbenzene	91	7.296	7.296	(1.018)	2386560	50.0000	47.2
	63 m,p-Xylenes	106	7.392	7.392	(1.032)	1861192	100.000	95.5
	64 o-Xylene	106	7.876	7.876	(1.099)	907137	50.0000	48.8
	65 Styrene	104	7.892	7.892	(1.102)	1457437	50.0000	49.1
	66 Bromoform	173	8.197	8.197	(0.812)	266685	50.0000	59.6
	67 Isopropylbenzene	105	8.326	8.326	(0.825)	2152431	50.0000	50.6
	73 1,1,2,2-Tetrachloroethane	83	8.431	8.431	(0.835)	628567	50.0000	56.9

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
$ 71 Bromofluorobenzene	95	8.566	8.566	(0.849)	763994	50.0000	57.7
74 1,2,3-Trichloropropane	110	8.614	8.614	(0.853)	167061	50.0000	62.2
75 Bromobenzene	156	8.788	8.788	(0.871)	548034	50.0000	50.4
76 n-Propylbenzene	91	8.823	8.823	(0.874)	2888486	50.0000	51.7
77 2-Chlorotoluene	91	8.999	8.999	(0.892)	1695428	50.0000	49.4
78 1,3,5-Trimethylbenzene	105	9.035	9.035	(0.895)	1858850	50.0000	49.7
80 4-Chlorotoluene	91	9.064	9.064	(0.898)	1868451	50.0000	51.5
81 tert-Butylbenzene	119	9.490	9.490	(0.940)	1808383	50.0000	50.8
79 1,2,4-Trimethylbenzene	105	9.526	9.526	(0.944)	1868789	50.0000	49.6
83 sec-Butylbenzene	105	9.776	9.776	(0.969)	2588363	50.0000	50.1
84 4-Isopropyltoluene	119	9.965	9.965	(0.987)	1957950	50.0000	51.9
85 1,3-Dichlorobenzene	146	10.001	10.001	(0.991)	1040695	50.0000	53.3
* 86 1,4-Dichlorobenzene-d4	152	10.094	10.094	(1.000)	625042	50.0000	
87 1,4-Dichlorobenzene	146	10.135	10.135	(1.004)	1013621	50.0000	52.3
89 n-Butylbenzene	92	10.543	10.543	(1.044)	1094700	50.0000	52.8
90 1,2-Dichlorobenzene	146	10.639	10.639	(1.054)	957980	50.0000	49.8
92 1,2-Dibromo-3-chloropropane	75	11.743	11.743	(1.163)	90915	50.0000	74.1(Q)
93 1,2,4-Trichlorobenzene	180	12.799	12.799	(1.268)	521350	50.0000	63.8
94 Hexachlorobutadiene	225	13.001	13.001	(1.288)	350129	50.0000	54.4
95 Naphthalene	128	13.004	13.004	(1.288)	1097514	50.0000	76.3
96 1,2,3-Trichlorobenzene	180	13.261	13.261	(1.314)	446169	50.0000	73.4

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/VOA9.i/010306v9.b/9r102.d

Date : 03-JAN-2006 18:51

Client ID: VSTD050

Sample Info: |W9V060103-01|CCV|1|VOAF|1|

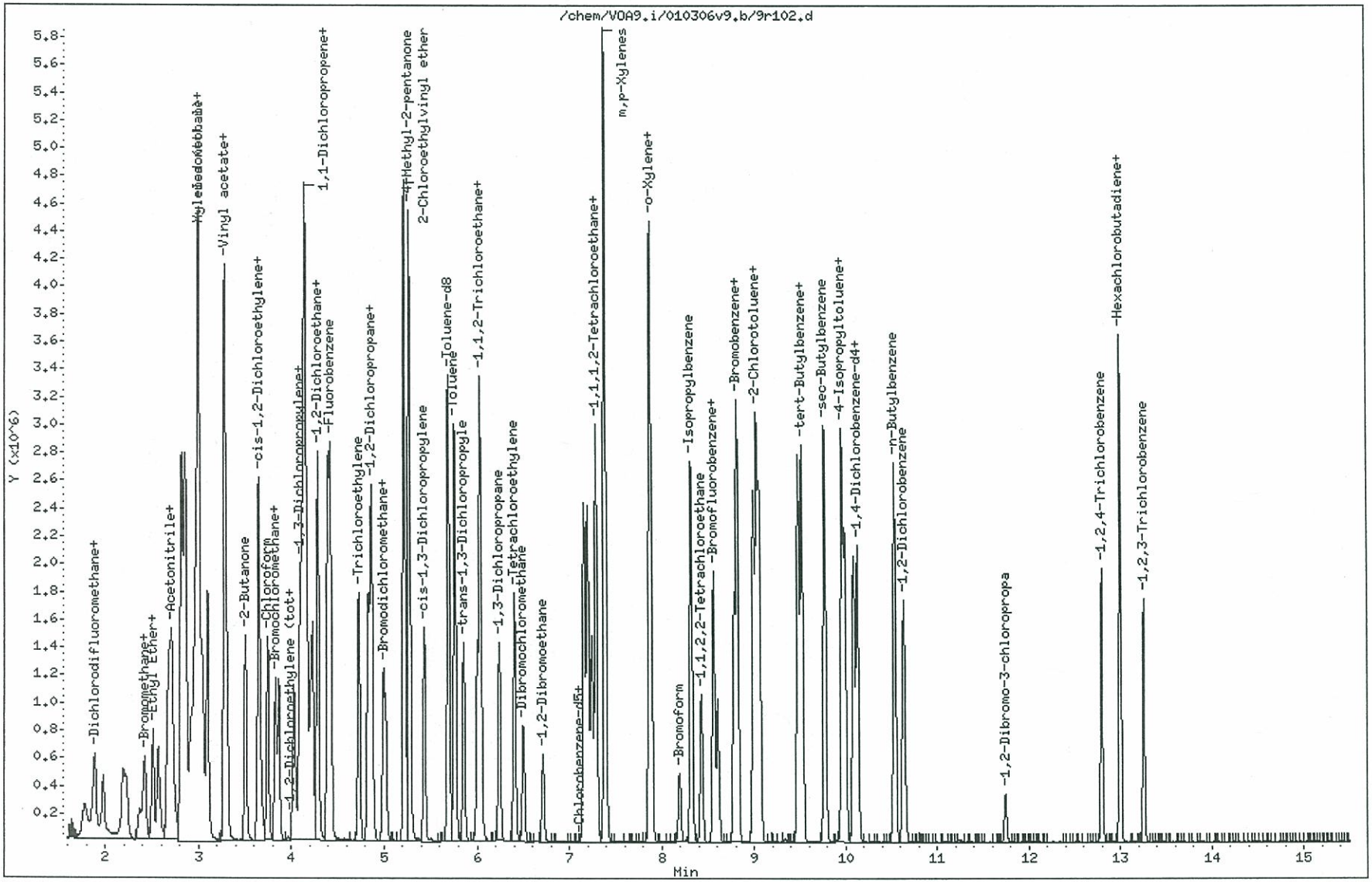
Purge Volume: 5.0

Column phase: RTX-Volatiles

Instrument: VOA9.i

Operator: TLW

Column diameter: 0.25



General Engineering Laboratories, LLC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: VOA9.i
Lab File ID: 9r104.d
Analysis Type: WATER
Lab Sample ID: UVM051202-01B
Method: /chem/VOA9.i/010306v9.b/VOA9-8260B-120505.m

Injection Date: 03-JAN-2006 19:45
Init. Cal. Date(s): 05-DEC-2005 06-DEC-2005
Init. Cal. Times: 23:49 06:57
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
9 Acrolein	0.04327	0.04687	0.04687	0.001	8.31679	40.00000	Averaged	
12 Trichlorotrifluoroethane	0.09536	0.09852	0.09852	0.050	3.31946	40.00000	Averaged	
16 Allyl chloride	0.12887	0.14153	0.14153	0.010	9.83030	40.00000	Averaged	
18 Acrylonitrile	0.09770	0.11187	0.11187	0.010	14.50204	40.00000	Averaged	
24 2-Chloro-1,3-butadiene	0.36462	0.40639	0.40639	0.010	11.45648	40.00000	Averaged	
28 Propionitrile	0.03666	0.04557	0.04557	0.010	24.29770	40.00000	Averaged	
26 Ethyl acetate	0.24740	0.29009	0.29009	0.010	17.25826	40.00000	Averaged	
27 Methacrylonitrile	0.17037	0.18477	0.18477	0.010	8.45069	40.00000	Averaged	
19 Isobutyl alcohol	2976	2500	0.01306	0.004	19.02536	40.00000	Linear	
72 Tetrahydrofuran	256	250	0.34613	0.010	2.39326	40.00000	Linear	
42 Methyl methacrylate	0.14831	0.18778	0.18778	0.010	26.61428	40.00000	Averaged	
51 Ethyl methacrylate	259	250	0.45357	0.010	3.74229	40.00000	Linear	
97 1,4-Dioxane	0.00273	0.00320	0.00320	0.001	17.03856	40.00000	Averaged	
48 2-Nitropropane	0.02972	0.07905	0.07905	0.010	166	40.00000	Averaged	<-
70 Cyclohexanone	2763	1250	0.03427	0.002	121	40.00000	Linear	<-
68 cis-1,4-Dichloro-2-butene	281	250	0.36022	0.010	12.36265	40.00000	Linear	
69 trans-1,4-Dichloro-2-butene	267	250	0.31587	0.010	6.76194	40.00000	Linear	
82 Pentachloroethane	273	250	0.46220	0.010	9.23520	40.00000	Linear	
88 Benzyl chloride	329	250	1.38502	0.010	31.74231	40.00000	Linear	
91 bis(2-Chloroisopropyl)ether	256	250	0.45027	0.010	2.38969	40.00000	Linear	
$ 35 Dibromofluoromethane	0.24981	0.29474	0.29474	0.010	17.98305	40.00000	Averaged	
$ 47 Toluene-d8	1.36531	1.48350	1.48350	0.010	8.65625	40.00000	Averaged	
$ 71 Bromofluorobenzene	1.05887	1.20826	1.20826	0.010	14.10799	40.00000	Averaged	

Average %D / Drift Results.

Calculated Average %D/Drift = 24.19878
Maximun Average %D/Drift = 20.00000
* Failed Average %D/Drift Test.

General Engineering Laboratories, LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA9.i/010306v9.b/9r104.d
Lab Smp Id: UVM051202-01B Client Smp ID: VSTD250S
Inj Date : 03-JAN-2006 19:45
Operator : TLW Inst ID: VOA9.i
Smp Info : |UVM051202-01B|SHORT|1|VOAF|1|
Misc Info : VBLK01SLCS VSTD250S
Comment :
Method : /chem/VOA9.i/010306v9.b/VOA9-8260B-120505.m
Meth Date : 03-Jan-2006 22:57 tcl Quant Type: ISTD
Cal Date : 06-DEC-2005 05:37 Cal File: 9n116.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CALsubS+SS.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	sample purged

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
9 Acrolein	56	2.541	2.541	(0.574)	464062	250.000	271
12 Trichlorotrifluoroethane	85	2.650	2.650	(0.599)	975445	250.000	258
16 Allyl chloride	76	2.865	2.865	(0.648)	1401279	250.000	274
18 Acrylonitrile	53	2.926	2.926	(0.661)	1107575	250.000	286
24 2-Chloro-1,3-butadiene	53	3.378	3.378	(0.764)	804712	50.0000	55.7
28 Propionitrile	54	3.500	3.500	(0.791)	451163	250.000	311
26 Ethyl acetate	43	3.609	3.609	(0.816)	2872119	250.000	293
27 Methacrylonitrile	41	3.645	3.645	(0.824)	1829339	250.000	271
19 Isobutyl alcohol	41	3.706	3.706	(0.838)	1293352	2500.00	2980
72 Tetrahydrofuran	42	3.866	3.866	(0.383)	1031833	250.000	256
42 Methyl methacrylate	69	4.848	4.848	(1.096)	1859112	250.000	316
* 40 Fluorobenzene	96	4.424	4.424	(1.000)	1980132	50.0000	
51 Ethyl methacrylate	69	5.884	5.884	(0.821)	3111108	250.000	259
97 1,4-Dioxane	88	4.979	4.979	(1.125)	316607	2500.00	2920
48 2-Nitropropane	43	4.986	4.986	(1.127)	782678	250.000	665(A)
* 61 Chlorobenzene-d5	117	7.165	7.165	(1.000)	1371845	50.0000	

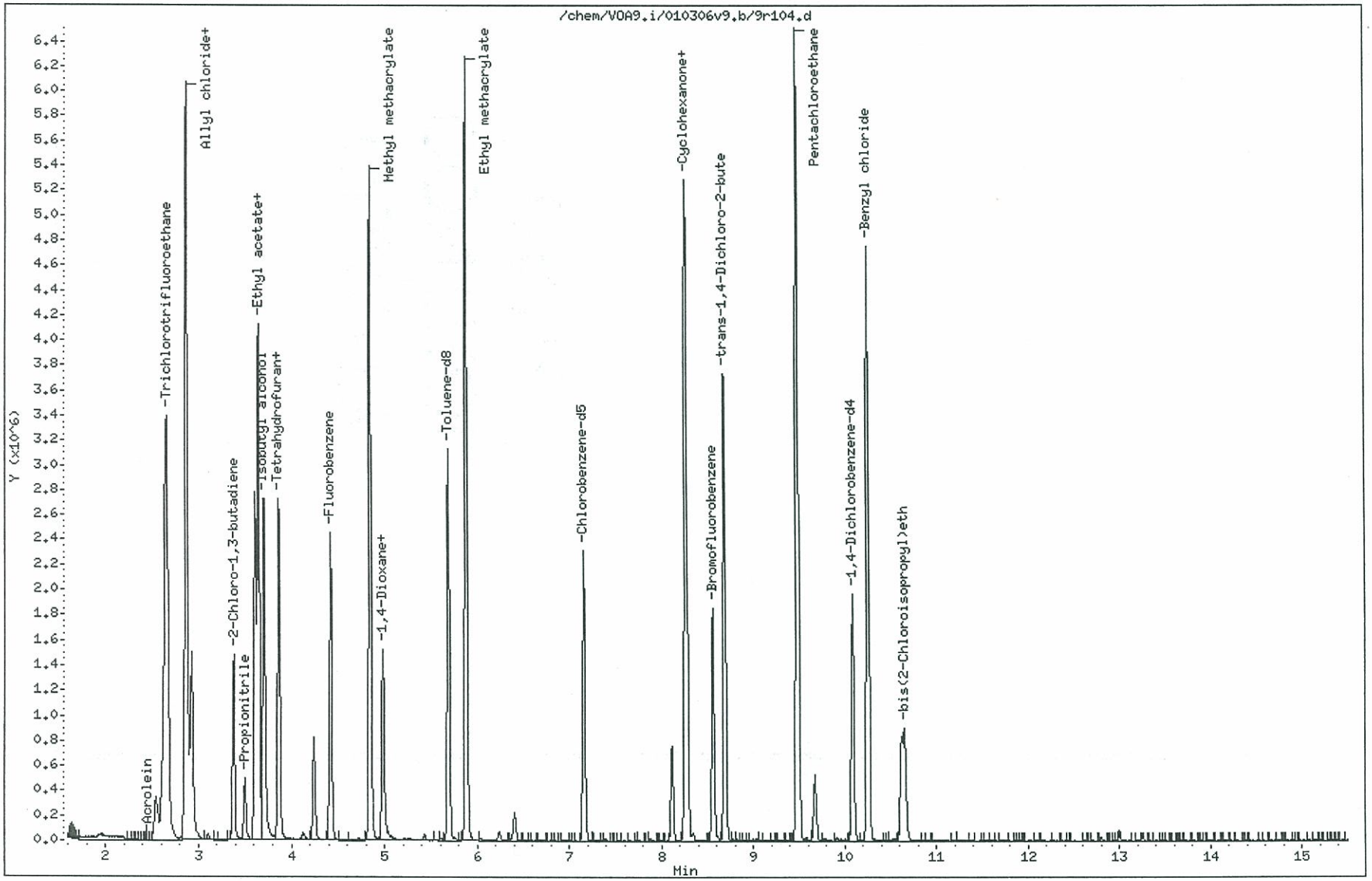
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
70 Cyclohexanone	55	8.265	8.265	(1.154)	1175160	1250.00	2760(A)
68 cis-1,4-Dichloro-2-butene	53	8.278	8.278	(0.820)	1073849	250.000	281
69 trans-1,4-Dichloro-2-butene	53	8.695	8.695	(0.861)	941633	250.000	267
82 Pentachloroethane	167	9.494	9.494	(0.941)	1377850	250.000	273
* 86 1,4-Dichlorobenzene-d4	152	10.094	10.094	(1.000)	596212	50.0000	
88 Benzyl chloride	91	10.258	10.258	(1.016)	4128835	250.000	329
91 bis(2-Chloroisopropyl)ether	45	10.653	10.653	(1.055)	1342281	250.000	256
$ 35 Dibromofluoromethane	113	3.866	3.866	(0.874)	583617	50.0000	59.0
$ 47 Toluene-d8	98	5.692	5.692	(0.794)	2035131	50.0000	54.3
$ 71 Bromofluorobenzene	95	8.564	8.564	(0.848)	720377	50.0000	57.0

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/VOA9.i/010306v9.b/9r104.d
Date : 03-JAN-2006 19:45
Client ID: VSTD250S
Sample Info: |UVM051202-01B|SHORT|1|VOAF|1|
Purge Volume: 5.0
Column phase: RTX-Volatiles

Instrument: VOA9.i
Operator: TLW
Column diameter: 0.25



QUALITY CONTROL DATA

Data File: /chem/VOA9.i/010306v9.b/9r101.d

Date : 03-JAN-2006 18:23

Client ID: BFB01

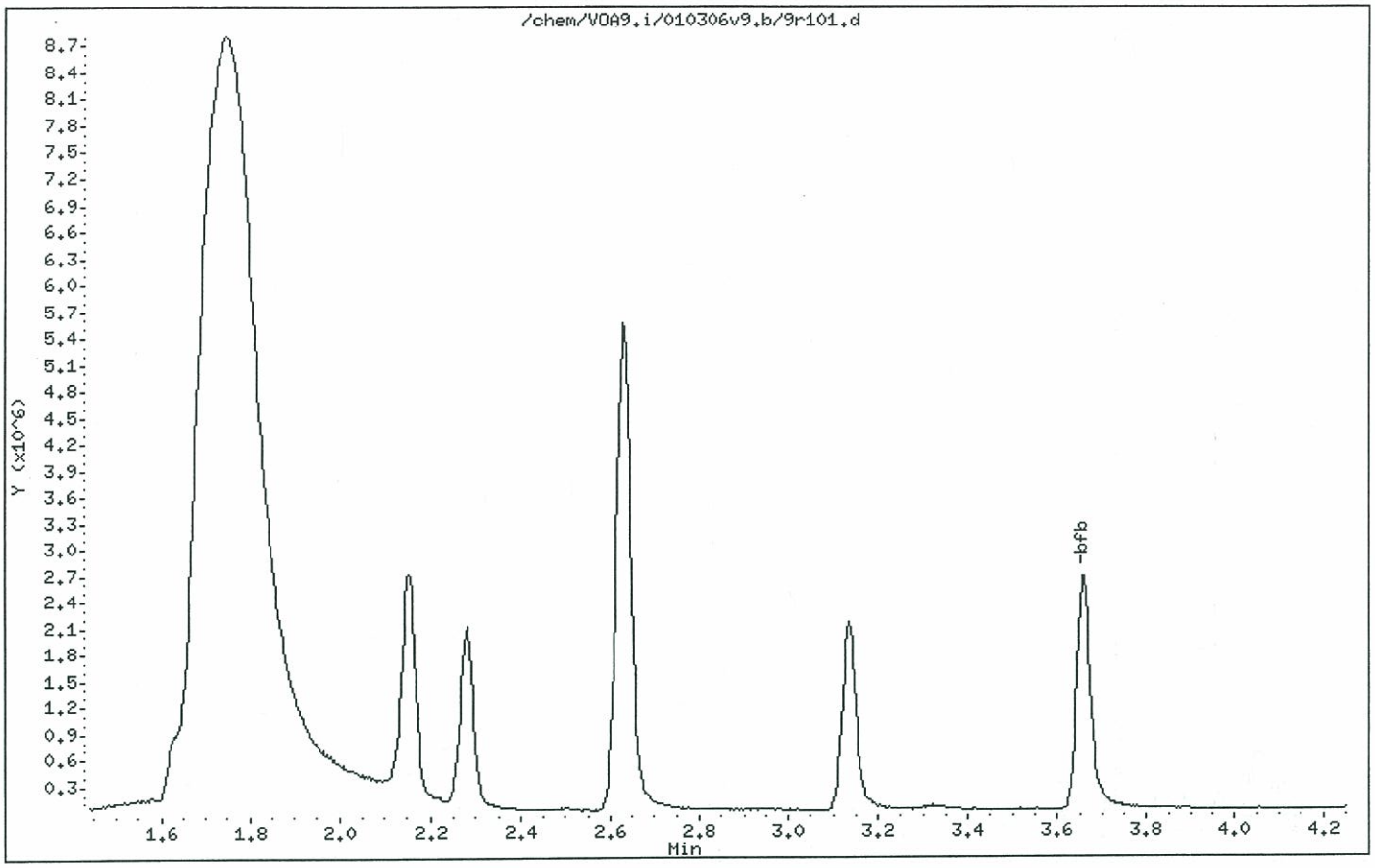
Instrument: VOA9.i

Sample Info: |UVM050816-02|BFB|1|VOAF|1|

Operator: TLW

Column phase: RTX-Volatiles

Column diameter: 0.25



Data File: /chem/VOA9.i/010306v9.b/9r101.d

Date : 03-JAN-2006 18:23

Client ID: BFB01

Instrument: VOA9.i

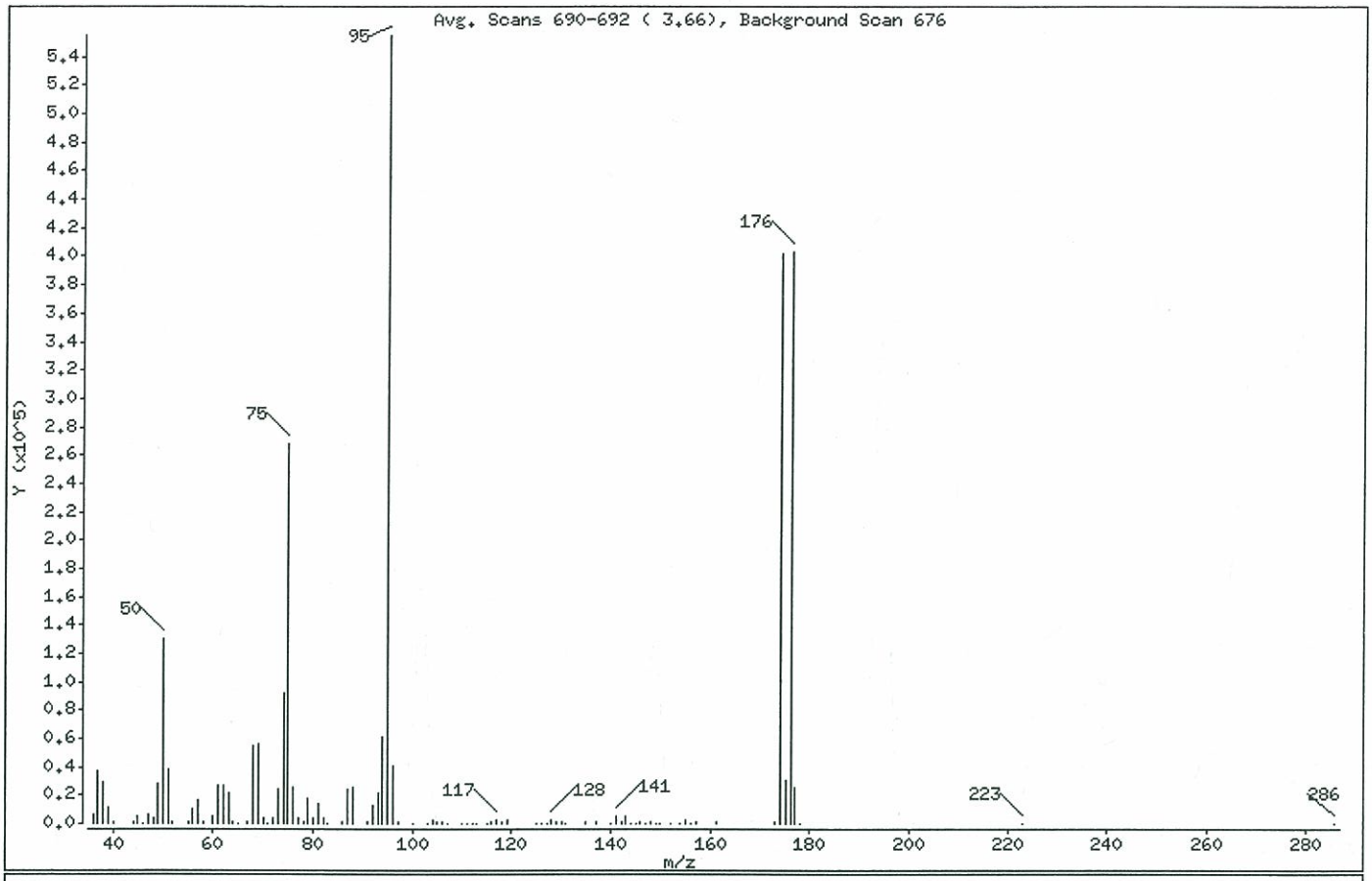
Sample Info: |UVM050816-02|BFB|1|VOAF|1|

Operator: TLW

Column phase: RTX-Volatiles

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.46
75	30.00 - 60.00% of mass 95	48.38
96	5.00 - 9.00% of mass 95	7.38
173	Less than 2.00% of mass 174	0.25 (0.35)
174	50.00 - 100.00% of mass 95	72.38
175	5.00 - 9.00% of mass 174	5.52 (7.62)
176	95.00 - 101.00% of mass 174	72.65 (100.38)
177	5.00 - 9.00% of mass 176	4.69 (6.45)

Data File: /chem/VOA9.i/010306v9.b/9r101.d

Date : 03-JAN-2006 18:23

Client ID: BFB01 Instrument: VOA9.i

Sample Info: |UVM050816-02|BFB|1|VOAF|1|

Operator: TLW

Column phase: RTX-Volatiles Column diameter: 0.25

Data File: 9r101.d
Spectrum: Avg. Scans 690-692 (3.66), Background Scan 676
Location of Maximum: 95.00
Number of points: 100

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	6350	69.00	56472	103.00	225	143.00	4492
37.00	36416	70.00	4267	104.00	2517	144.00	412
38.00	29272	71.00	209	105.00	980	145.00	214
39.00	11260	72.00	3660	106.00	1881	146.00	668
40.00	816	73.00	24000	107.00	266	147.00	460
44.00	977	74.00	91392	110.00	169	148.00	1054
45.00	5511	75.00	268480	111.00	501	149.00	383
46.00	255	76.00	26088	112.00	264	150.00	493
47.00	6770	77.00	3879	113.00	405	152.00	180
48.00	3533	78.00	1634	115.00	184	154.00	496
49.00	28232	79.00	17312	116.00	1424	155.00	1983
50.00	130200	80.00	3832	117.00	3076	156.00	279
51.00	37808	81.00	14110	118.00	1652	157.00	844
52.00	1588	82.00	3197	119.00	2360	161.00	687
55.00	1451	83.00	607	125.00	192	173.00	1400
56.00	10419	86.00	1103	126.00	258	174.00	401664
57.00	17200	87.00	24240	127.00	219	175.00	30624
58.00	1467	88.00	25144	128.00	2676	176.00	403200
60.00	4522	91.00	1900	129.00	893	177.00	26008
61.00	27280	92.00	13311	130.00	1639	178.00	181
62.00	26744	93.00	21480	131.00	463	223.00	167
63.00	21216	94.00	61360	135.00	1077	286.00	195
64.00	1832	95.00	555008	137.00	881		
65.00	613	96.00	40968	140.00	168		
67.00	1622	97.00	1360	141.00	5265		
68.00	55496	100.00	174	142.00	711		

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.: 4248S

Matrix: (soil/water) SOIL Lab Sample ID: 1201004655

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 9R107LANL

Level: (low/med) LOW Date Received: 01/03/06

% Moisture: not dec. _____ Date Analyzed: 01/03/06

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/KG	Q
75-71-8	Dichlorodifluoromethane	1.0	U
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
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethylene	1.0	U
67-64-1	Acetone	5.0	U
76-13-1	Trichlorotrifluoroethane	5.0	U
74-88-4	Iodomethane	5.0	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
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethylene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropylene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	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

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.: 4248S

Matrix: (soil/water) SOIL Lab Sample ID: 1201004655

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 9R107LANL

Level: (low/med) LOW Date Received: 01/03/06

% Moisture: not dec. _____ Date Analyzed: 01/03/06

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/KG	Q
142-28-9	1,3-Dichloropropane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethylene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
	m,p-Xylenes	2.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-86-1	Bromobenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U

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.: 4248S

Matrix: (soil/water) SOIL Lab Sample ID: 1201004655

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 9R107LANL

Level: (low/med) LOW Date Received: 01/03/06

% Moisture: not dec. _____ Date Analyzed: 01/03/06

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/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
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29.				
30.				

General Engineering Laboratories, LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA9.i/010306v9.b/9r107LANL.d
Lab Smp Id: 1201004655 Client Smp ID: VBLK01
Inj Date : 03-JAN-2006 21:08
Operator : TLW Inst ID: VOA9.i
Smp Info : |1201004655|491532|1|VOAF|1|
Misc Info : VBLK01
Comment :
Method : /chem/VOA9.i/010306v9.b/VOA9-8260B-120505.m
Meth Date : 03-Jan-2006 22:58 tcl Quant Type: ISTD
Cal Date : 06-DEC-2005 05:37 Cal File: 9n116.d
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4248S.sub
Target Version: 3.50
Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	0.00000	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 40 Fluorobenzene	96	4.426	4.424	(1.000)	1817806	50.0000	
* 61 Chlorobenzene-d5	117	7.164	7.164	(1.000)	1284681	50.0000	
* 86 1,4-Dichlorobenzene-d4	152	10.093	10.094	(1.000)	538496	50.0000	
$ 35 Dibromofluoromethane	113	3.865	3.865	(0.873)	504050	55.4986	55.5
$ 47 Toluene-d8	98	5.694	5.691	(0.795)	1837493	52.3803	52.4
$ 71 Bromofluorobenzene	95	8.566	8.566	(0.849)	623931	54.7118	54.7

General Engineering Laboratories, LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA9.i/010306v9.b/9r107LANL.d
Lab Smp Id: 1201004655 Client Smp ID: VBLK01
Inj Date : 03-JAN-2006 21:08
Operator : TLW Inst ID: VOA9.i
Smp Info : |1201004655|491532|1|VOAF|1|
Misc Info : VBLK01
Comment :
Method : /chem/VOA9.i/010306v9.b/VOA9-8260B-120505.m
Meth Date : 03-Jan-2006 22:58 tcl Quant Type: ISTD
Cal Date : 06-DEC-2005 05:37 Cal File: 9n116.d
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4248S.sub
Target Version: 3.50
Processing Host: prdsvr07

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/VOA9.i/010306v9.b/9r107LANL.d

Date : 03-JAN-2006 21:08

Client ID: VBLK01

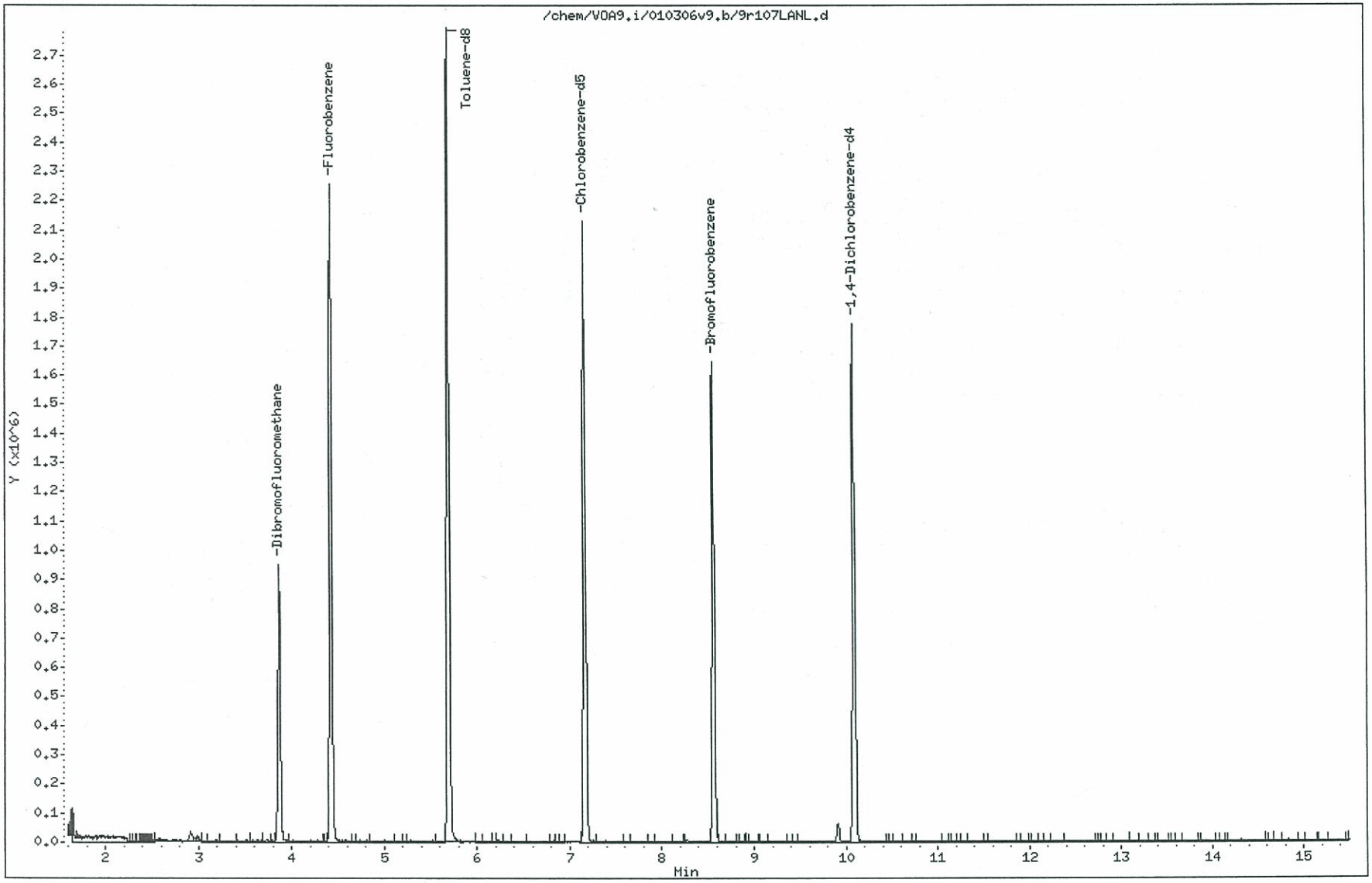
Sample Info: |1201004655|491532|1|VOAF|1|

Column phase: RTX-Volatiles

Instrument: VOA9.i

Operator: TLW

Column diameter: 0.25



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.: 4248S

Matrix: (soil/water) SOIL Lab Sample ID: 1201004656

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 9R108LANL

Level: (low/med) LOW Date Received: 01/03/06

% Moisture: not dec. _____ Date Analyzed: 01/03/06

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/KG	Q
75-71-8	Dichlorodifluoromethane	28.2	
74-87-3	Chloromethane	40.1	
75-01-4	Vinyl chloride	37.8	
74-83-9	Bromomethane	42.1	
75-00-3	Chloroethane	43.2	
75-69-4	Trichlorofluoromethane	46.0	
75-35-4	1,1-Dichloroethylene	43.3	
67-64-1	Acetone	311	
76-13-1	Trichlorotrifluoroethane	5.0	U
74-88-4	Iodomethane	236	
75-15-0	Carbon disulfide	230	
75-09-2	Methylene chloride	46.9	
156-60-5	trans-1,2-Dichloroethylene	43.6	
75-34-3	1,1-Dichloroethane	48.8	
78-93-3	2-Butanone	327	
156-59-2	cis-1,2-Dichloroethylene	48.2	
594-20-7	2,2-Dichloropropane	57.6	
74-97-5	Bromochloromethane	48.7	
67-66-3	Chloroform	48.9	
71-55-6	1,1,1-Trichloroethane	54.7	
563-58-6	1,1-Dichloropropene	44.6	
56-23-5	Carbon tetrachloride	51.7	
107-06-2	1,2-Dichloroethane	48.2	
71-43-2	Benzene	45.1	
79-01-6	Trichloroethylene	46.6	
78-87-5	1,2-Dichloropropane	49.6	
74-95-3	Dibromomethane	50.9	
75-27-4	Bromodichloromethane	57.1	
10061-01-5	cis-1,3-Dichloropropylene	58.4	
108-10-1	4-Methyl-2-pentanone	281	
108-88-3	Toluene	43.0	
10061-02-6	trans-1,3-Dichloropropylene	50.9	
79-00-5	1,1,2-Trichloroethane	48.9	

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.: 4248S

Matrix: (soil/water) SOIL Lab Sample ID: 1201004656

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 9R108LANL

Level: (low/med) LOW Date Received: 01/03/06

% Moisture: not dec. _____ Date Analyzed: 01/03/06

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/KG	Q
142-28-9	1,3-Dichloropropane	49.3	
591-78-6	2-Hexanone	287	
127-18-4	Tetrachloroethylene	47.0	
124-48-1	Dibromochloromethane	51.0	
106-93-4	1,2-Dibromoethane	54.0	
108-90-7	Chlorobenzene	45.4	
630-20-6	1,1,1,2-Tetrachloroethane	51.0	
100-41-4	Ethylbenzene	44.5	
95-47-6	o-Xylene	48.3	
----------	m,p-Xylenes	90.8	
100-42-5	Styrene	48.8	
75-25-2	Bromoform	54.3	
98-82-8	Isopropylbenzene	43.7	
79-34-5	1,1,2,2-Tetrachloroethane	48.4	
96-18-4	1,2,3-Trichloropropane	55.3	
108-86-1	Bromobenzene	45.8	
103-65-1	n-Propylbenzene	43.6	
95-49-8	2-Chlorotoluene	43.5	
108-67-8	1,3,5-Trimethylbenzene	45.4	
95-63-6	1,2,4-Trimethylbenzene	45.1	
106-43-4	4-Chlorotoluene	46.2	
98-06-6	tert-Butylbenzene	46.3	
135-98-8	sec-Butylbenzene	45.8	
99-87-6	4-Isopropyltoluene	48.1	
541-73-1	1,3-Dichlorobenzene	47.5	
106-46-7	1,4-Dichlorobenzene	46.9	
104-51-8	n-Butylbenzene	47.3	
95-50-1	1,2-Dichlorobenzene	45.4	
96-12-8	1,2-Dibromo-3-chloropropane	64.2	

General Engineering Laboratories, LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA9.i/010306v9.b/9r108LANL.d
Lab Smp Id: 1201004656 Client Smp ID: VBLK01LCS
Inj Date : 03-JAN-2006 21:30
Operator : TLW Inst ID: VOA9.i
Smp Info : |1201004656|491532|1|VOAF|1|
Misc Info : VBLK01LCS UVM051214-01E+IVM051230-01
Comment :
Method : /chem/VOA9.i/010306v9.b/VOA9-8260B-120505.m
Meth Date : 03-Jan-2006 22:58 tcl Quant Type: ISTD
Cal Date : 06-DEC-2005 05:37 Cal File: 9n116.d
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4248S.sub
Target Version: 3.50
Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	0.00000	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 40 Fluorobenzene	96	4.423	4.424	(1.000)	1871699	50.0000	
* 61 Chlorobenzene-d5	117	7.163	7.164	(1.000)	1316850	50.0000	
* 86 1,4-Dichlorobenzene-d4	152	10.090	10.094	(1.000)	613376	50.0000	
$ 35 Dibromofluoromethane	113	3.862	3.865	(0.873)	522782	55.9037	55.9
$ 47 Toluene-d8	98	5.691	5.691	(0.794)	1912014	53.1731	53.2
$ 71 Bromofluorobenzene	95	8.563	8.566	(0.849)	656002	50.5016	50.5
3 Dichlorodifluoromethane	85	1.775	1.783	(0.401)	329554	28.2386	28.2(Q)
4 Chloromethane	50	1.881	1.889	(0.425)	691230	40.1181	40.1
5 Vinyl chloride	62	1.974	1.976	(0.446)	443477	37.7752	37.8
6 Bromomethane	94	2.185	2.193	(0.494)	366866	42.1131	42.1
7 Chloroethane	64	2.219	2.227	(0.502)	376390	43.2381	43.2
8 Trichlorofluoromethane	101	2.420	2.419	(0.547)	760802	45.9835	46.0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
11 1,1-Dichloroethylene	61	2.706	2.707	(0.612)	755275	43.3270	43.3
10 Acetone	43	2.565	2.566	(0.580)	906309	311.410	311
14 Carbon disulfide	76	2.992	2.996	(0.676)	7561182	229.816	230
17 Methylene chloride	84	2.921	2.919	(0.660)	504120	46.9010	46.9
21 trans-1,2-Dichloroethylene	96	3.098	3.098	(0.700)	460306	43.5993	43.6
22 1,1-Dichloroethane	63	3.303	3.307	(0.747)	966460	48.7698	48.8
31 cis-1,2-Dichloroethylene	96	3.643	3.644	(0.824)	519665	48.2192	48.2
32 Chloroform	83	3.743	3.743	(0.846)	859678	48.9380	48.9
37 1,2-Dichloroethane	62	4.231	4.234	(0.956)	680363	48.2151	48.2
30 2-Butanone	43	3.502	3.503	(0.792)	1472028	326.678	327
36 1,1,1-Trichloroethane	97	4.025	4.026	(0.910)	679435	54.7190	54.7(Q)
87 1,4-Dichlorobenzene	146	10.135	10.135	(1.004)	891555	46.8908	46.9
85 1,3-Dichlorobenzene	146	10.000	10.001	(0.991)	911621	47.5157	47.5
90 1,2-Dichlorobenzene	146	10.639	10.639	(1.054)	857775	45.4457	45.4
33 Carbon tetrachloride	117	4.205	4.209	(0.951)	551371	51.7184	51.7
38 Benzene	78	4.285	4.286	(0.969)	1863178	45.0816	45.1
39 Trichloroethylene	95	4.728	4.728	(1.069)	469690	46.6019	46.6
41 1,2-Dichloropropane	63	4.827	4.828	(1.091)	532819	49.6175	49.6
45 Bromodichloromethane	83	4.991	4.992	(1.128)	601256	57.1452	57.1
46 cis-1,3-Dichloropropylene	75	5.431	5.434	(1.228)	733014	58.3725	58.4
53 trans-1,3-Dichloropropylene	75	5.858	5.858	(0.818)	630384	50.9235	50.9
54 1,1,2-Trichloroethane	83	6.008	6.006	(0.839)	350358	48.8712	48.9
57 Dibromochloromethane	129	6.509	6.503	(0.909)	394614	51.0384	51.0
49 4-Methyl-2-pentanone	58	5.270	5.271	(0.736)	1063242	280.846	281
50 Toluene	92	5.761	5.762	(0.804)	1133013	42.9646	43.0
56 Tetrachloroethylene	164	6.409	6.410	(0.895)	352436	47.0180	47.0
55 2-Hexanone	43	6.037	6.038	(0.843)	1968374	286.858	287
59 1,2-Dibromoethane	107	6.714	6.715	(0.937)	409426	54.0291	54.0
62 Chlorobenzene	112	7.202	7.202	(1.005)	1214581	45.4434	45.4
58 Ethylbenzene	91	7.298	7.296	(1.019)	2048559	44.5464	44.5
63 m,p-Xylenes	106	7.391	7.392	(1.032)	1609467	90.7539	90.8
65 Styrene	104	7.892	7.892	(1.102)	1317350	48.8086	48.8
64 o-Xylene	106	7.876	7.876	(1.099)	818072	48.3468	48.3
67 Isopropylbenzene	105	8.322	8.326	(0.825)	1822318	43.6955	43.7
66 Bromoform	173	8.197	8.197	(0.812)	236819	54.2671	54.3
73 1,1,2,2-Tetrachloroethane	83	8.431	8.431	(0.836)	524681	48.3884	48.4
92 1,2-Dibromo-3-chloropropane	75	11.746	11.743	(1.164)	76701	64.2342	64.2(Q)
60 1,1,1,2-Tetrachloroethane	131	7.250	7.247	(1.012)	386300	50.9663	51.0
34 1,1-Dichloropropene	75	4.128	4.128	(0.933)	655888	44.5851	44.6
25 2,2-Dichloropropane	77	3.650	3.654	(0.825)	638847	57.6383	57.6
80 4-Chlorotoluene	91	9.063	9.064	(0.898)	1645259	46.2481	46.2
75 Bromobenzene	156	8.787	8.788	(0.871)	488604	45.8012	45.8
81 tert-Butylbenzene	119	9.490	9.490	(0.941)	1616365	46.2871	46.3
83 sec-Butylbenzene	105	9.775	9.776	(0.969)	2318766	45.7640	45.8
76 n-Propylbenzene	91	8.822	8.823	(0.874)	2387629	43.5573	43.6
89 n-Butylbenzene	92	10.536	10.543	(1.044)	961935	47.3183	47.3
13 Iodomethane	142	2.851	2.855	(0.645)	3622369	235.657	236

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
43 Dibromomethane	93	5.017	5.021	(1.134)	307484	50.8759	50.9
29 Bromochloromethane	128	3.830	3.830	(0.866)	231769	48.7022	48.7
84 4-Isopropyltoluene	119	9.965	9.965	(0.988)	1782473	48.1311	48.1
77 2-Chlorotoluene	91	8.996	8.999	(0.892)	1464078	43.5010	43.5
52 1,3-Dichloropropane	76	6.243	6.246	(0.871)	705648	49.2698	49.3
78 1,3,5-Trimethylbenzene	105	9.034	9.035	(0.895)	1664954	45.3501	45.4
74 1,2,3-Trichloropropane	110	8.611	8.614	(0.853)	145681	55.3231	55.3
79 1,2,4-Trimethylbenzene	105	9.525	9.526	(0.944)	1669290	45.1155	45.1

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/VOA9.i/010306v9.b/9r108LANL.d

Date : 03-JAN-2006 21:30

Client ID: VBLK01LCS

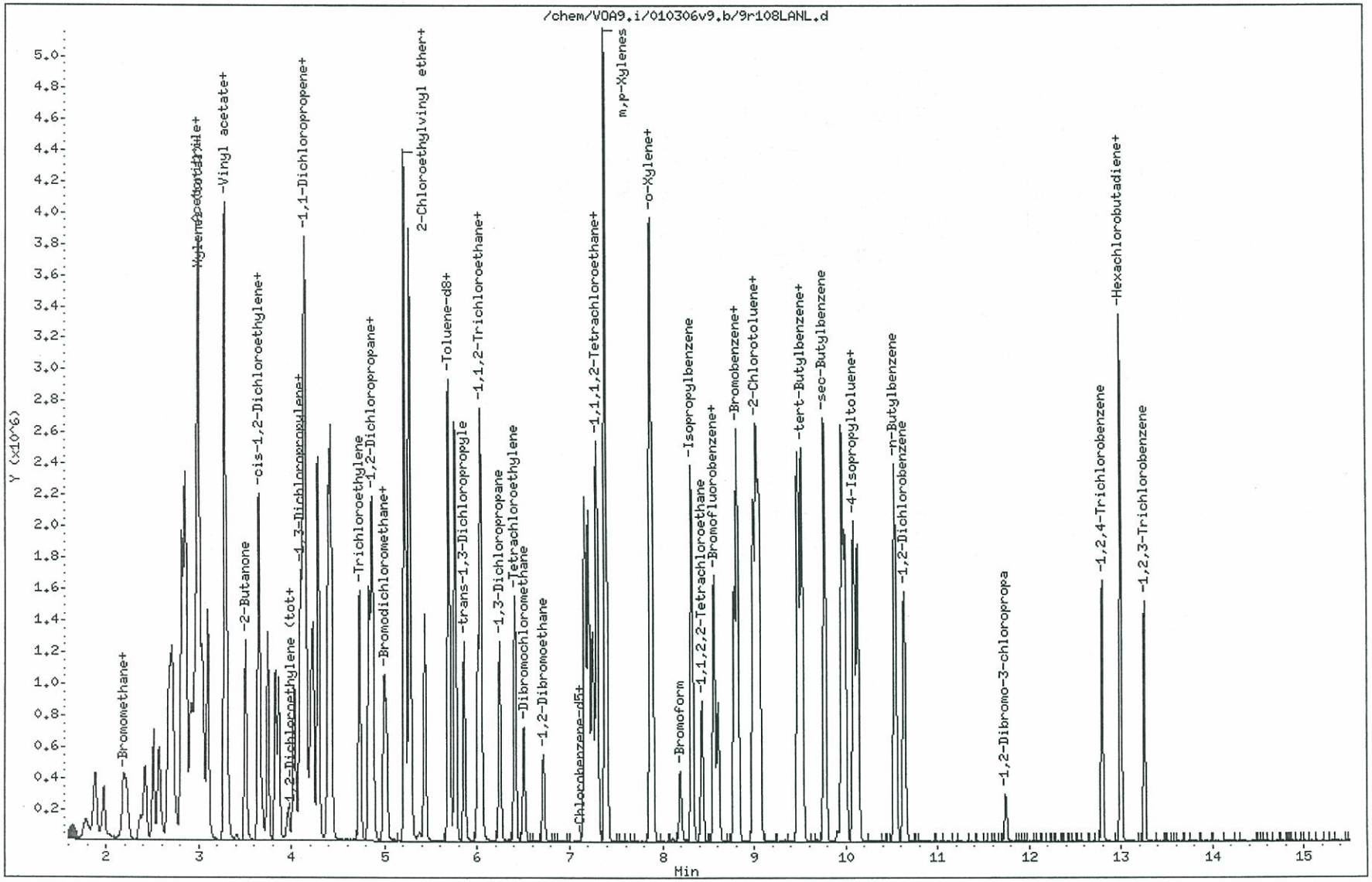
Sample Info: |1201004656|491532|1|VOAF|1|

Column phase: RTX-Volatiles

Instrument: VOA9.i

Operator: TLW

Column diameter: 0.25



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01SLCS

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

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 4248S

Matrix: (soil/water) SOIL Lab Sample ID: 1201004659

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 9R104SHLANL

Level: (low/med) LOW Date Received: 01/03/06

% Moisture: not dec. _____ Date Analyzed: 01/03/06

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/KG	Q
75-71-8	Dichlorodifluoromethane	1.0	U
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
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethylene	1.0	U
67-64-1	Acetone	5.0	U
76-13-1	Trichlorotrifluoroethane	258	
74-88-4	Iodomethane	5.0	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
78-93-3	2-Butanone	5.0	U
156-59-2	cis-1,2-Dichloroethylene	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	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
74-95-3	Dibromomethane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropylene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01SLCS

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

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 4248S

Matrix: (soil/water) SOIL Lab Sample ID: 1201004659

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 9R104SHLANL

Level: (low/med) LOW Date Received: 01/03/06

% Moisture: not dec. _____ Date Analyzed: 01/03/06

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/KG	Q
142-28-9	1,3-Dichloropropane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethylene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
100-41-4	Ethylbenzene	1.0	U
95-47-6	o-Xylene	1.0	U
	m,p-Xylenes	2.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
108-86-1	Bromobenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U

General Engineering Laboratories, LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA9.i/010306v9.b/9r104SHLANL.d
Lab Smp Id: 1201004659 Client Smp ID: VBLK01SLCS
Inj Date : 03-JAN-2006 19:45
Operator : TLW Inst ID: VOA9.i
Smp Info : |1201004659|491532|1|VOAF|1|
Misc Info : VBLK01SLCS VSTD250S UVM051202-01B
Comment :
Method : /chem/VOA9.i/010306v9.b/VOA9-8260B-120505.m
Meth Date : 03-Jan-2006 22:58 tcl Quant Type: ISTD
Cal Date : 06-DEC-2005 05:37 Cal File: 9n116.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4248S.sub
Target Version: 3.50
Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	0.00000	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 40 Fluorobenzene	96	4.424	4.424	(1.000)	1980132	50.0000	
* 61 Chlorobenzene-d5	117	7.165	7.164	(1.000)	1371845	50.0000	
* 86 1,4-Dichlorobenzene-d4	152	10.094	10.094	(1.000)	596212	50.0000	
$ 35 Dibromofluoromethane	113	3.866	3.865	(0.874)	583617	58.9915	59.0
$ 47 Toluene-d8	98	5.692	5.691	(0.794)	2035131	54.3281	54.3
$ 71 Bromofluorobenzene	95	8.564	8.566	(0.848)	720377	57.0540	57.0
12 Trichlorotrifluoroethane	85	2.650	2.650	(0.599)	975445	258.299	258

Data File: /chem/VOA9.i/010306v9.b/9r104SHLANL.d

Date : 03-JAN-2006 19:45

Client ID: VBLK01SLCS

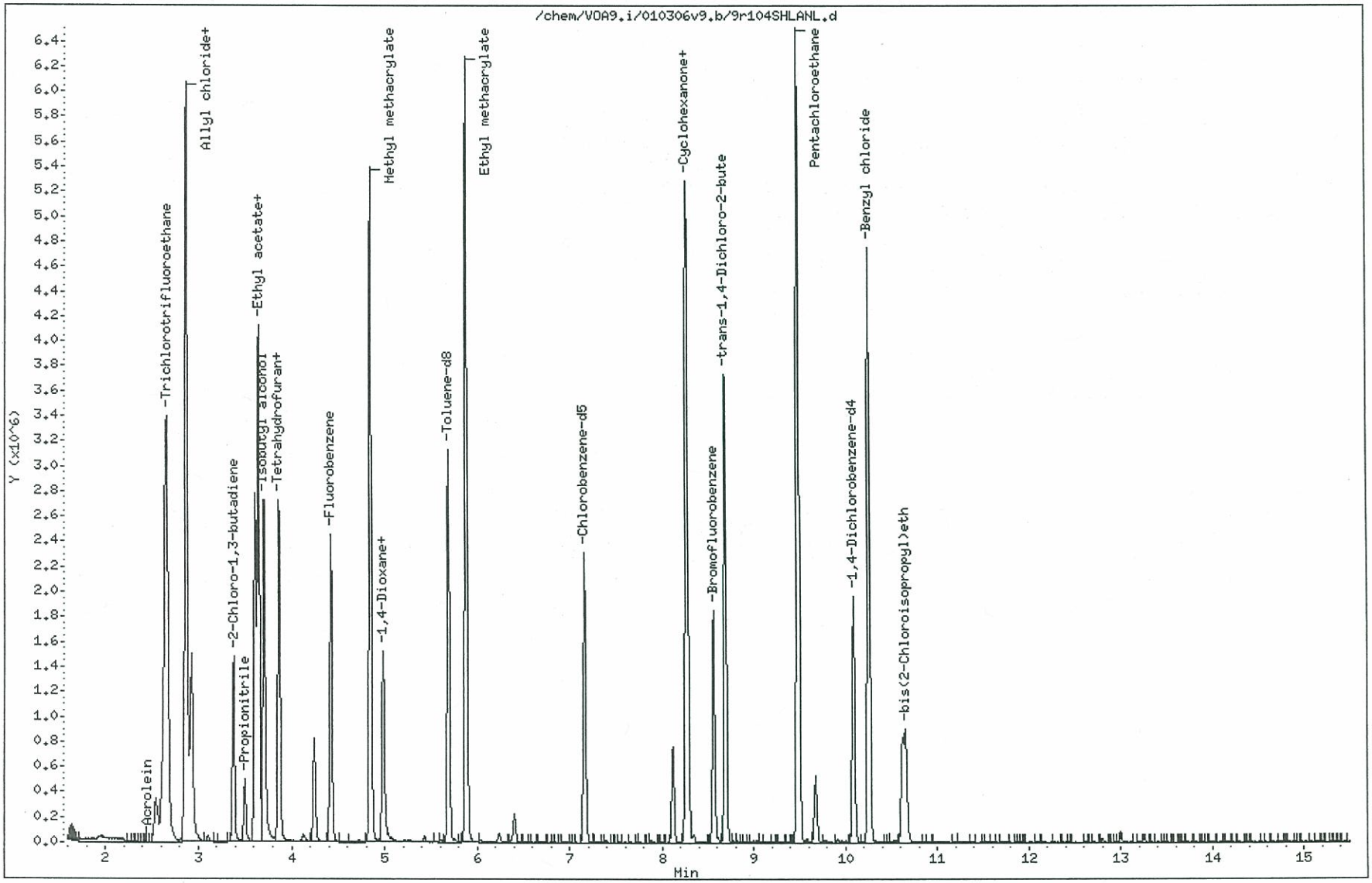
Sample Info: |12010046591491532|1|VOAF|1|

Column phase: RTX-Volatiles

Instrument: VOA9.i

Operator: TLW

Column diameter: 0.25



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RE73-06-66447MS

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

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 4248S

Matrix: (soil/water) SOIL Lab Sample ID: 1201004657

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 9R113

Level: (low/med) LOW Date Received: 12/22/05

% Moisture: not dec. _____ Date Analyzed: 01/04/06

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/KG	Q
75-71-8	Dichlorodifluoromethane	26.7	
74-87-3	Chloromethane	37.4	
75-01-4	Vinyl chloride	35.8	
74-83-9	Bromomethane	40.2	
75-00-3	Chloroethane	41.8	
75-69-4	Trichlorofluoromethane	41.7	
75-35-4	1,1-Dichloroethylene	47.8	
67-64-1	Acetone	350	
76-13-1	Trichlorotrifluoroethane	5.0	U
74-88-4	Iodomethane	218	
75-15-0	Carbon disulfide	145	
75-09-2	Methylene chloride	92.4	
156-60-5	trans-1,2-Dichloroethylene	41.3	
75-34-3	1,1-Dichloroethane	47.1	
78-93-3	2-Butanone	306	
156-59-2	cis-1,2-Dichloroethylene	45.1	
594-20-7	2,2-Dichloropropane	56.5	
74-97-5	Bromochloromethane	46.5	
67-66-3	Chloroform	51.8	
71-55-6	1,1,1-Trichloroethane	50.5	
563-58-6	1,1-Dichloropropene	42.4	
56-23-5	Carbon tetrachloride	20.2	
107-06-2	1,2-Dichloroethane	46.7	
71-43-2	Benzene	44.1	
79-01-6	Trichloroethylene	44.4	
78-87-5	1,2-Dichloropropane	47.7	
74-95-3	Dibromomethane	48.4	
75-27-4	Bromodichloromethane	18.8	
10061-01-5	cis-1,3-Dichloropropylene	31.7	
108-10-1	4-Methyl-2-pentanone	270	
108-88-3	Toluene	41.1	
10061-02-6	trans-1,3-Dichloropropylene	20.6	
79-00-5	1,1,2-Trichloroethane	46.9	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RE73-06-66447MS

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

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 4248S

Matrix: (soil/water) SOIL Lab Sample ID: 1201004657

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 9R113

Level: (low/med) LOW Date Received: 12/22/05

% Moisture: not dec. _____ Date Analyzed: 01/04/06

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/KG	Q
142-28-9	1,3-Dichloropropane	46.4	
591-78-6	2-Hexanone	275	
127-18-4	Tetrachloroethylene	45.0	
124-48-1	Dibromochloromethane	12.7	
106-93-4	1,2-Dibromoethane	49.9	
108-90-7	Chlorobenzene	42.3	
630-20-6	1,1,1,2-Tetrachloroethane	35.3	
100-41-4	Ethylbenzene	43.3	
95-47-6	o-Xylene	45.6	
----------	m,p-Xylenes	88.9	
100-42-5	Styrene	44.8	
75-25-2	Bromoform	10.0	
98-82-8	Isopropylbenzene	40.9	
79-34-5	1,1,2,2-Tetrachloroethane	46.6	
96-18-4	1,2,3-Trichloropropane	52.8	
108-86-1	Bromobenzene	43.8	
103-65-1	n-Propylbenzene	39.9	
95-49-8	2-Chlorotoluene	41.1	
108-67-8	1,3,5-Trimethylbenzene	41.0	
95-63-6	1,2,4-Trimethylbenzene	41.9	
106-43-4	4-Chlorotoluene	42.2	
98-06-6	tert-Butylbenzene	41.9	
135-98-8	sec-Butylbenzene	39.5	
99-87-6	4-Isopropyltoluene	42.2	
541-73-1	1,3-Dichlorobenzene	43.2	
106-46-7	1,4-Dichlorobenzene	42.8	
104-51-8	n-Butylbenzene	40.4	
95-50-1	1,2-Dichlorobenzene	41.4	
96-12-8	1,2-Dibromo-3-chloropropane	39.8	

General Engineering Laboratories, LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA9.i/010306v9.b/9r113.d
Lab Smp Id: 1201004657 Client Smp ID: RE73-06-66447MS
Inj Date : 04-JAN-2006 00:10
Operator : GRB2 Inst ID: VOA9.i
Smp Info : |1201004657|491532|1|VOAF|1|
Misc Info : LANL 5.0G N/A 152616001PS
Comment :
Method : /chem/VOA9.i/010306v9.b/VOA9-8260B-120505.m
Meth Date : 03-Jan-2006 22:58 tcl Quant Type: ISTD
Cal Date : 06-DEC-2005 05:37 Cal File: 9n116.d
Als bottle: 12 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4248S.sub
Target Version: 3.50
Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	0.00000	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 40 Fluorobenzene	96	4.424	4.424	(1.000)	1940863	50.0000	
* 61 Chlorobenzene-d5	117	7.164	7.164	(1.000)	1366112	50.0000	
* 86 1,4-Dichlorobenzene-d4	152	10.097	10.094	(1.000)	630483	50.0000	
$ 35 Dibromofluoromethane	113	3.866	3.865	(0.874)	536148	55.2899	55.3
$ 47 Toluene-d8	98	5.692	5.691	(0.794)	1951667	52.3187	52.3
$ 71 Bromofluorobenzene	95	8.563	8.566	(0.848)	691884	51.8187	51.8
3 Dichlorodifluoromethane	85	1.777	1.783	(0.402)	323546	26.7118	26.7(Q)
4 Chloromethane	50	1.882	1.889	(0.425)	671066	37.4540	37.4
5 Vinyl chloride	62	1.975	1.976	(0.446)	435537	35.7768	35.8
6 Bromomethane	94	2.189	2.193	(0.495)	363134	40.1705	40.2
7 Chloroethane	64	2.229	2.227	(0.504)	377550	41.8258	41.8
8 Trichlorofluoromethane	101	2.419	2.419	(0.547)	715839	41.7013	41.7

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
11 1,1-Dichloroethylene	61	2.704	2.707	(0.611)	864936	47.8496	47.8
10 Acetone	43	2.569	2.566	(0.581)	1051653	350.158	350(R)
14 Carbon disulfide	76	2.996	2.996	(0.677)	4963187	145.476	145(R)
17 Methylene chloride	84	2.919	2.919	(0.660)	1009502	92.4174	92.4(R)
21 trans-1,2-Dichloroethylene	96	3.096	3.098	(0.700)	452601	41.3418	41.3
22 1,1-Dichloroethane	63	3.307	3.307	(0.748)	968405	47.1265	47.1
31 cis-1,2-Dichloroethylene	96	3.648	3.644	(0.824)	504329	45.1285	45.1
32 Chloroform	83	3.744	3.743	(0.846)	942896	51.7625	51.8
37 1,2-Dichloroethane	62	4.232	4.234	(0.956)	683661	46.7223	46.7
30 2-Butanone	43	3.503	3.503	(0.792)	1427718	305.553	306
36 1,1,1-Trichloroethane	97	4.026	4.026	(0.910)	650157	50.4951	50.5(Q)
87 1,4-Dichlorobenzene	146	10.133	10.135	(1.003)	836438	42.7762	42.8
85 1,3-Dichlorobenzene	146	10.001	10.001	(0.990)	853261	43.2433	43.2
90 1,2-Dichlorobenzene	146	10.643	10.639	(1.054)	803590	41.4197	41.4
33 Carbon tetrachloride	117	4.212	4.209	(0.952)	202786	20.1761	20.2(R)
38 Benzene	78	4.286	4.286	(0.969)	1892053	44.1488	44.1
39 Trichloroethylene	95	4.729	4.728	(1.069)	464494	44.4441	44.4
41 1,2-Dichloropropane	63	4.832	4.828	(1.092)	531603	47.7401	47.7
45 Bromodichloromethane	83	4.992	4.992	(1.128)	205097	18.7984	18.8(R)
46 cis-1,3-Dichloropropylene	75	5.432	5.434	(1.228)	412636	31.6887	31.7
53 trans-1,3-Dichloropropylene	75	5.858	5.858	(0.818)	239148	20.6146	20.6(R)
54 1,1,2-Trichloroethane	83	6.006	6.006	(0.838)	348915	46.9148	46.9
57 Dibromochloromethane	129	6.510	6.503	(0.909)	84473	12.7418	12.7(R)
49 4-Methyl-2-pentanone	58	5.268	5.271	(0.735)	1059127	269.671	270
50 Toluene	92	5.762	5.762	(0.804)	1123533	41.0688	41.1
56 Tetrachloroethylene	164	6.410	6.410	(0.895)	349691	44.9848	45.0
55 2-Hexanone	43	6.038	6.038	(0.843)	1960704	275.437	275
59 1,2-Dibromoethane	107	6.718	6.715	(0.938)	392176	49.8865	49.9
62 Chlorobenzene	112	7.206	7.202	(1.006)	1173028	42.3060	42.3
58 Ethylbenzene	91	7.296	7.296	(1.018)	2067196	43.3307	43.3
63 m,p-Xylenes	106	7.389	7.392	(1.031)	1636085	88.9281	88.9
65 Styrene	104	7.893	7.892	(1.102)	1254787	44.8142	44.8
64 o-Xylene	106	7.877	7.876	(1.099)	800111	45.5802	45.6
67 Isopropylbenzene	105	8.326	8.326	(0.825)	1753883	40.9135	40.9
66 Bromoform	173	8.194	8.197	(0.812)	28959	9.97091	10(R)
73 1,1,2,2-Tetrachloroethane	83	8.435	8.431	(0.835)	519659	46.6249	46.6
92 1,2-Dibromo-3-chloropropane	75	11.750	11.743	(1.164)	46957	39.7833	39.8(Q)
60 1,1,1,2-Tetrachloroethane	131	7.248	7.247	(1.012)	271466	35.3087	35.3
34 1,1-Dichloropropene	75	4.129	4.128	(0.933)	646782	42.3994	42.4
25 2,2-Dichloropropane	77	3.648	3.654	(0.824)	648316	56.4690	56.5
80 4-Chlorotoluene	91	9.064	9.064	(0.898)	1544288	42.2320	42.2
75 Bromobenzene	156	8.791	8.788	(0.871)	480647	43.8328	43.8
81 tert-Butylbenzene	119	9.491	9.490	(0.940)	1503995	41.9006	41.9
83 sec-Butylbenzene	105	9.780	9.776	(0.969)	2056732	39.4910	39.5
76 n-Propylbenzene	91	8.823	8.823	(0.874)	2249422	39.9226	39.9
89 n-Butylbenzene	92	10.540	10.543	(1.044)	844049	40.3928	40.4
13 Iodomethane	142	2.855	2.855	(0.645)	3475489	218.044	218

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
43 Dibromomethane	93	5.018	5.021	(1.134)	303066	48.3579	48.4
29 Bromochloromethane	128	3.831	3.830	(0.866)	229576	46.5223	46.5
84 4-Isopropyltoluene	119	9.966	9.965	(0.987)	1608100	42.2444	42.2
77 2-Chlorotoluene	91	8.997	8.999	(0.891)	1423229	41.1399	41.1
52 1,3-Dichloropropane	76	6.244	6.246	(0.871)	690133	46.4489	46.4
78 1,3,5-Trimethylbenzene	105	9.035	9.035	(0.895)	1547964	41.0195	41.0
74 1,2,3-Trichloropropane	110	8.612	8.614	(0.853)	142944	52.8108	52.8
79 1,2,4-Trimethylbenzene	105	9.529	9.526	(0.944)	1592185	41.8640	41.9

QC Flag Legend

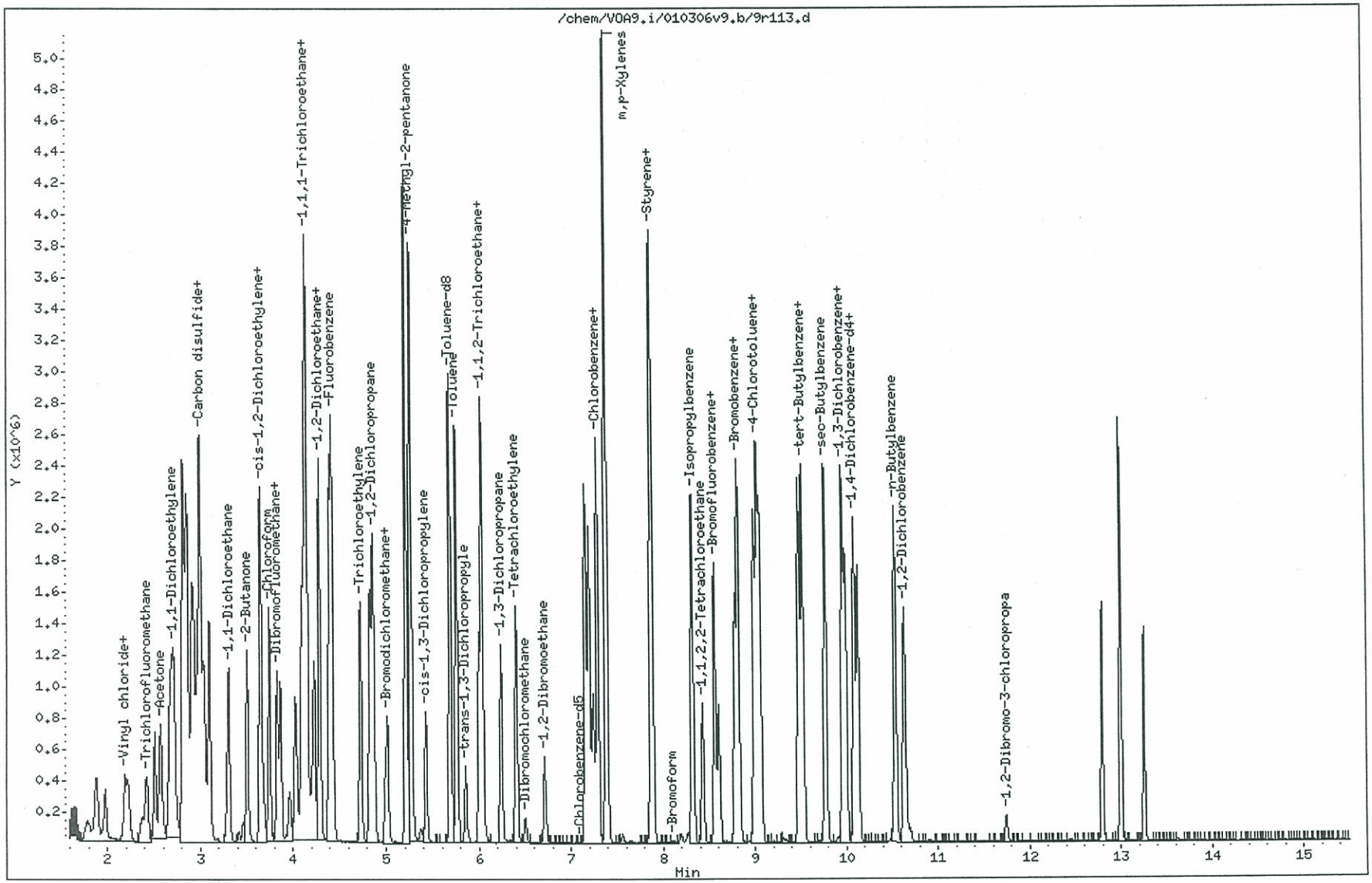
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: /chem/VOA9.i/010306v9.b/9r113.d
Date : 04-JAN-2006 00:10
Client ID: RE73-06-66447MS
Sample Info: |1201004657|491532|1|VOAF|1|

Instrument: VOA9.i

Operator: GRB2
Column diameter: 0.25

Column phase: RTX-Volatiles



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RE73-06-66447MSD

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

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 4248S

Matrix: (soil/water) SOIL Lab Sample ID: 1201004658

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 9R114

Level: (low/med) LOW Date Received: 12/22/05

% Moisture: not dec. _____ Date Analyzed: 01/04/06

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/KG	Q
75-71-8	Dichlorodifluoromethane	25.4	
74-87-3	Chloromethane	37.3	
75-01-4	Vinyl chloride	34.4	
74-83-9	Bromomethane	39.0	
75-00-3	Chloroethane	41.4	
75-69-4	Trichlorofluoromethane	40.8	
75-35-4	1,1-Dichloroethylene	51.2	
67-64-1	Acetone	313	
76-13-1	Trichlorotrifluoroethane	5.0	U
74-88-4	Iodomethane	211	
75-15-0	Carbon disulfide	134	
75-09-2	Methylene chloride	110	E
156-60-5	trans-1,2-Dichloroethylene	41.8	
75-34-3	1,1-Dichloroethane	47.5	
78-93-3	2-Butanone	281	
156-59-2	cis-1,2-Dichloroethylene	47.3	
594-20-7	2,2-Dichloropropane	55.1	
74-97-5	Bromochloromethane	46.9	
67-66-3	Chloroform	51.0	
71-55-6	1,1,1-Trichloroethane	50.0	
563-58-6	1,1-Dichloropropene	41.8	
56-23-5	Carbon tetrachloride	23.5	
107-06-2	1,2-Dichloroethane	44.6	
71-43-2	Benzene	43.8	
79-01-6	Trichloroethylene	45.6	
78-87-5	1,2-Dichloropropane	48.2	
74-95-3	Dibromomethane	45.6	
75-27-4	Bromodichloromethane	16.7	
10061-01-5	cis-1,3-Dichloropropylene	29.4	
108-10-1	4-Methyl-2-pentanone	252	
108-88-3	Toluene	40.3	
10061-02-6	trans-1,3-Dichloropropylene	17.6	
79-00-5	1,1,2-Trichloroethane	45.8	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

RE73-06-66447MSD

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

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 4248S

Matrix: (soil/water) SOIL Lab Sample ID: 1201004658

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 9R114

Level: (low/med) LOW Date Received: 12/22/05

% Moisture: not dec. _____ Date Analyzed: 01/04/06

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/KG	Q
142-28-9	1,3-Dichloropropane	46.7	
591-78-6	2-Hexanone	249	
127-18-4	Tetrachloroethylene	42.5	
124-48-1	Dibromochloromethane	11.0	
106-93-4	1,2-Dibromoethane	47.3	
108-90-7	Chlorobenzene	42.5	
630-20-6	1,1,1,2-Tetrachloroethane	30.7	
100-41-4	Ethylbenzene	42.8	
95-47-6	o-Xylene	45.7	
----------	m,p-Xylenes	87.6	
100-42-5	Styrene	44.2	
75-25-2	Bromoform	8.8	
98-82-8	Isopropylbenzene	39.9	
79-34-5	1,1,2,2-Tetrachloroethane	44.9	
96-18-4	1,2,3-Trichloropropane	50.5	
108-86-1	Bromobenzene	42.6	
103-65-1	n-Propylbenzene	39.7	
95-49-8	2-Chlorotoluene	40.5	
108-67-8	1,3,5-Trimethylbenzene	41.0	
95-63-6	1,2,4-Trimethylbenzene	41.5	
106-43-4	4-Chlorotoluene	42.0	
98-06-6	tert-Butylbenzene	41.8	
135-98-8	sec-Butylbenzene	40.1	
99-87-6	4-Isopropyltoluene	41.8	
541-73-1	1,3-Dichlorobenzene	42.7	
106-46-7	1,4-Dichlorobenzene	42.4	
104-51-8	n-Butylbenzene	41.0	
95-50-1	1,2-Dichlorobenzene	41.3	
96-12-8	1,2-Dibromo-3-chloropropane	30.2	

General Engineering Laboratories, LLC

VOLATILE GC/MS : SOP# GL-OA-E-038,-039,-026

Data file : /chem/VOA9.i/010306v9.b/9r114.d
Lab Smp Id: 1201004658 Client Smp ID: RE73-06-66447MSD
Inj Date : 04-JAN-2006 00:38
Operator : GRB2 Inst ID: VOA9.i
Smp Info : |1201004658|491532|1|VOAF|1|
Misc Info : LANL 5.0G N/A 152616001PSD
Comment :
Method : /chem/VOA9.i/010306v9.b/VOA9-8260B-120505.m
Meth Date : 03-Jan-2006 22:58 tcl Quant Type: ISTD
Cal Date : 06-DEC-2005 05:37 Cal File: 9n116.d
Als bottle: 13 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4248S.sub
Target Version: 3.50
Processing Host: prdsvr07

Concentration Formula: Amt * DF * (100/(100-M))*(Vt/Ws)*(Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
M	0.00000	% moisture
Vt	5.00000	Purge Volume (ml)
Ws	5.00000	weight of sample (g)
Uf	1.00000	Unit correction factor
Va	100.00000	Soil Aliquot Volume (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 40 Fluorobenzene	96	4.424	4.424	(1.000)	2017783	50.0000	
* 61 Chlorobenzene-d5	117	7.167	7.164	(1.000)	1435538	50.0000	
* 86 1,4-Dichlorobenzene-d4	152	10.094	10.094	(1.000)	666536	50.0000	
$ 35 Dibromofluoromethane	113	3.865	3.865	(0.874)	558091	55.3588	55.4
$ 47 Toluene-d8	98	5.691	5.691	(0.794)	2029720	51.7796	51.8
$ 71 Bromofluorobenzene	95	8.566	8.566	(0.849)	733584	51.9700	52.0
3 Dichlorodifluoromethane	85	1.791	1.783	(0.405)	320490	25.4296	25.4(Q)
4 Chloromethane	50	1.881	1.889	(0.425)	694458	37.2743	37.3
5 Vinyl chloride	62	1.974	1.976	(0.446)	435579	34.4163	34.4
6 Bromomethane	94	2.191	2.193	(0.495)	366394	38.9673	39.0
7 Chloroethane	64	2.225	2.227	(0.503)	388049	41.3501	41.4
8 Trichlorofluoromethane	101	2.421	2.419	(0.547)	727512	40.7601	40.8

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
11 1,1-Dichloroethylene	61	2.710	2.707	(0.613)	962897	51.2383	51.2
10 Acetone	43	2.566	2.566	(0.580)	981683	312.955	313
14 Carbon disulfide	76	2.996	2.996	(0.677)	4741809	133.689	134(R)
17 Methylene chloride	84	2.916	2.919	(0.659)	1246503	110.136	110(AR)
21 trans-1,2-Dichloroethylene	96	3.098	3.098	(0.700)	476385	41.8555	41.8
22 1,1-Dichloroethane	63	3.304	3.307	(0.747)	1015557	47.5371	47.5
31 cis-1,2-Dichloroethylene	96	3.647	3.644	(0.824)	549540	47.2996	47.3
32 Chloroform	83	3.743	3.743	(0.846)	965016	50.9573	51.0
37 1,2-Dichloroethane	62	4.234	4.234	(0.957)	678189	44.5815	44.6
30 2-Butanone	43	3.506	3.503	(0.793)	1363148	280.613	281
36 1,1,1-Trichloroethane	97	4.026	4.026	(0.910)	669914	50.0461	50.0(Q)
87 1,4-Dichlorobenzene	146	10.135	10.135	(1.004)	877178	42.4312	42.4
85 1,3-Dichlorobenzene	146	10.001	10.001	(0.991)	890514	42.6867	42.7
90 1,2-Dichlorobenzene	146	10.642	10.639	(1.054)	847061	41.2987	41.3
33 Carbon tetrachloride	117	4.215	4.209	(0.953)	251135	23.4910	23.5(R)
38 Benzene	78	4.289	4.286	(0.970)	1949951	43.7653	43.8
39 Trichloroethylene	95	4.729	4.728	(1.069)	495963	45.6461	45.6
41 1,2-Dichloropropane	63	4.828	4.828	(1.091)	558654	48.2569	48.2
45 Bromodichloromethane	83	4.995	4.992	(1.129)	189746	16.7284	16.7(R)
46 cis-1,3-Dichloropropylene	75	5.431	5.434	(1.228)	397570	29.3678	29.4(R)
53 trans-1,3-Dichloropropylene	75	5.858	5.858	(0.817)	207509	17.5696	17.6(R)
54 1,1,2-Trichloroethane	83	6.009	6.006	(0.838)	357612	45.7588	45.8
57 Dibromochloromethane	129	6.503	6.503	(0.907)	72911	10.9633	11.0(R)
49 4-Methyl-2-pentanone	58	5.271	5.271	(0.735)	1038357	251.596	252
50 Toluene	92	5.762	5.762	(0.804)	1158683	40.3053	40.3
56 Tetrachloroethylene	164	6.410	6.410	(0.894)	347053	42.5058	42.5
55 2-Hexanone	43	6.038	6.038	(0.842)	1866185	249.480	249
59 1,2-Dibromoethane	107	6.718	6.715	(0.937)	391016	47.3335	47.3
62 Chlorobenzene	112	7.209	7.202	(1.006)	1238599	42.5105	42.5
58 Ethylbenzene	91	7.299	7.296	(1.018)	2147224	42.8315	42.8
63 m,p-Xylenes	106	7.392	7.392	(1.031)	1692824	87.5622	87.6
65 Styrene	104	7.892	7.892	(1.101)	1302165	44.2571	44.2
64 o-Xylene	106	7.876	7.876	(1.099)	843884	45.7489	45.7
67 Isopropylbenzene	105	8.322	8.326	(0.824)	1808061	39.8960	39.9
66 Bromoform	173	8.197	8.197	(0.812)	24401	8.75688	8.8(R)
73 1,1,2,2-Tetrachloroethane	83	8.431	8.431	(0.835)	529469	44.9355	44.9
92 1,2-Dibromo-3-chloropropane	75	11.746	11.743	(1.164)	36406	30.1817	30.2(Q)
60 1,1,1,2-Tetrachloroethane	131	7.251	7.247	(1.012)	245587	30.7360	30.7(R)
34 1,1-Dichloropropene	75	4.128	4.128	(0.933)	662239	41.7577	41.8
25 2,2-Dichloropropane	77	3.650	3.654	(0.825)	656803	55.1000	55.1
80 4-Chlorotoluene	91	9.064	9.064	(0.898)	1625777	42.0556	42.0
75 Bromobenzene	156	8.788	8.788	(0.871)	494244	42.6348	42.6
81 tert-Butylbenzene	119	9.490	9.490	(0.940)	1585168	41.7733	41.8
83 sec-Butylbenzene	105	9.776	9.776	(0.969)	2209697	40.1332	40.1
76 n-Propylbenzene	91	8.823	8.823	(0.874)	2365032	39.7040	39.7
89 n-Butylbenzene	92	10.540	10.543	(1.044)	906050	41.0146	41.0
13 Iodomethane	142	2.855	2.855	(0.645)	3498135	211.099	211

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
43 Dibromomethane	93	5.021	5.021	(1.135)	296823	45.5563	45.6
29 Bromochloromethane	128	3.830	3.830	(0.866)	240864	46.9491	46.9
84 4-Isopropyltoluene	119	9.965	9.965	(0.987)	1684355	41.8543	41.8
77 2-Chlorotoluene	91	8.999	8.999	(0.892)	1481053	40.4957	40.5
52 1,3-Dichloropropane	76	6.246	6.246	(0.872)	728674	46.6711	46.7
78 1,3,5-Trimethylbenzene	105	9.038	9.035	(0.895)	1638079	41.0595	41.0
74 1,2,3-Trichloropropane	110	8.611	8.614	(0.853)	144429	50.4732	50.5
79 1,2,4-Trimethylbenzene	105	9.526	9.526	(0.944)	1670502	41.5474	41.5

QC Flag Legend

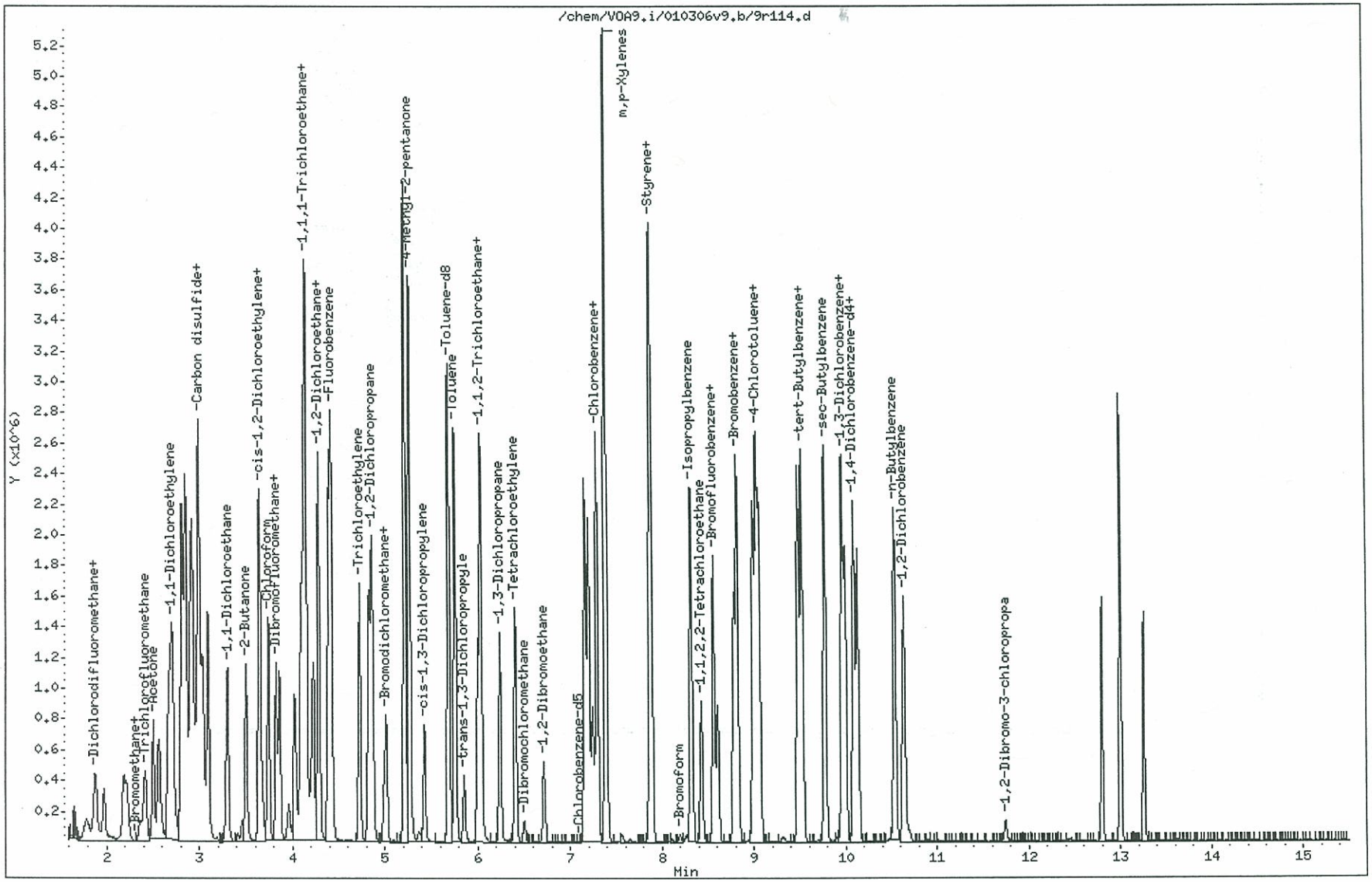
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: /chem/VOA9.i/010306v9.b/9r114.d
Date : 04-JAN-2006 00:38
Client ID: RE73-06-66447MSD
Sample Info: |1201004658|491532|1|VOAF|1|

Instrument: VOA9.i

Operator: GRB2
Column diameter: 0.25

Column phase: RTX-Volatiles



MISCELLANEOUS DATA

Prep Logbook

Volatile Organic Compounds (VOC) by Gas Chromatography/Mass Spectrometer

Batch ID: 491531 **Verified by:** _____

Analyst: Tammy Woodie

Method: SW846 5030

Lab SOP: GL–OA–E–038 REV# 9

Instrument: Balance B–001 SR–2

Sample ID	Run Date	Initial Volume (g)	Prepped Aliquot / Aliquot (mL/g)	Final Volume (mL)	pH Check
1201004655 MB	03–JAN–2006 18:00:00	5	1	5	
1201004656 LCS	03–JAN–2006 18:00:00	5	1	5	
1201004659 LCS	03–JAN–2006 18:00:00	5	1	5	
1201004657 PS (152616001)	03–JAN–2006 20:11:00	5	1	5	
1201004658 PSD (152616001)	03–JAN–2006 20:12:00	5	1	5	
152616001	03–JAN–2006 20:30:00	5	1	5	
152616002	03–JAN–2006 20:32:00	5	1	5	

Type	Sample Id	Description	Serial Number	Spike Amt	Units

Comments:

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

NCR Report No.: 281420
Revision No.: 1

COMPANY – WIDE NONCONFORMANCE REPORT

Mo.Day Yr.	Division:	Quality Criteria:	Type:
04-JAN-06	Federal	Specifications	Process
Instrument Type:	**Test / Method:**	**Matrix Type:**	**Client Code:**
VOA GC/MS	SW846 8260B	Solid	LANL
Batch ID:	**Sample Numbers:**		
491532	See Below		

Potentially affected work order(s)(SDG): 152616(4248S)

Application Issues:

Failed Recovery for MS/PS

Sample Analyzed out of Holding

Specification and Requirements Nonconformance Description:	NRG Disposition:
1. Failed Recovery for MS/PS: QC 1201004657PS 2. Sample Analyzed out of Holding: QC 1201004657PS, 1201004658PSD	1. Both the post spike and post spike duplicate failed recoveries for Carbon tetrachloride, Bromodichloromethane, trans-1,3-Dichloropropylene, Dibromochloromethane, Bromoform, Carbon disulfide and Methylene chloride. 1,1,1,2-Tetrachloroethane and cis-1,3-Dichloropropylene's recoveries were just below their respective limits in the post spike duplicate while the two compounds' recoveries were just above the lower limits in the post spike analysis. Because of the consistencies between the post spike and post spike duplicate results, the %RPDs passed for all compounds and the failures should be attributed to matrix interference. 2. Due to time constraints the post spike and post spike duplicate were analyzed out of holding. The PS/PSD were analyzed within the same tune window as the samples and the samples were analyzed within holding. The data is qualified and reported.

Originator's Name:
Tammy Woodie 04-JAN-06

Data Validator/Group Leader:
Jeffrey Wilkin 04-JAN-06

Quality Review:

Director:

General Engineering Laboratories, LLC
Revision:1 /04

ORGANIC RUN LOG - INSTRUMENT ID#VOA9

REVIEWED BY: JRW
DATE: 12-7-05

Date: 12/5/05 Method 8260 Operator: GRB

HARDWARE CONFIGURATION & METHOD CONDITIONS SUMMARY No# 1

Daily Instrument Readings:
Multiplier Voltage: 2259

NEW 12-6-05

CALIBRATION & CC INFORMATION:

Initial Calibration Date: _____

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

Sequence Number: 120505V9

Daily Standard — Volume Added for Purge (ul)

Solution ID#		Blk/ Smpl	CCV	MS/ LCS	BFB
CCV					
IS	UVM051031-02	1	1	1	
SS	UVM051115-02	1	1	1	
LCS/MS					
BFB	UVM050816-02				1
SHORT	UVM051202-01A		5		
DHEC					

Purge Amount

5	Water Purge Vol:
5	Soil Purge Wt.
	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
5 Dec 2005	22:56	9N101.D	UVM050816-02	N/A	BFB	1ul	1	N/A	1	w/s	GRB	O	
5 Dec 2005	23:23	9N102.D	12009------	N/A	BLANK	5ml	1	N/A	2	w/s	GRB	X	RINSE
5 Dec 2005	23:49	9N103.D	W9VM051205-01	ICAL	ICAL8	5ul+5ul	1	N/A	3	w/s	GRB	O	UVM051015-01C+UVM051122-01B
6 Dec 2005	00:16	9N104.D	W9VM051205-02	ICAL	ICAL1	5ul+5ul	1	N/A	4	w/s	GRB	O	UVM051015-02C+UVM051122-02B
6 Dec 2005	00:43	9N105.D	W9VM051205-02	ICAL	ICAL1	5ul+5ul	1	N/A	5	w/s	GRB	X	UVM051015-02C+UVM051122-02B
6 Dec 2005	01:10	9N106.D	W9VM051205-03	ICAL	ICAL2	5ul+5ul	1	N/A	6	w/s	GRB	O	UVM051015-03C+UVM051122-03B
6 Dec 2005	01:36	9N107.D	W9VM051205-04	ICAL	ICAL3	5ul+5ul	1	N/A	7	w/s	GRB	O	UVM051015-04C+UVM051122-04B
6 Dec 2005	02:04	9N108.D	W9VM051205-05	ICAL	ICAL4	5ul+5ul	1	N/A	8	w/s	GRB	O	UVM051015-05C+UVM051122-05B
6 Dec 2005	02:30	9N109.D	W9VM051205-06	ICAL	ICAL5	5ul+5ul	1	N/A	9	w/s	GRB	O	UVM051015-06C+UVM051122-06B
6 Dec 2005	02:57	9N110.D	W9VM051205-07	ICAL	ICAL6	5ul+5ul	1	N/A	10	w/s	GRB	O	UVM051015-07C+UVM051122-07B
6 Dec 2005	03:24	9N111.D	W9VM051205-08	ICAL	ICAL7	5ul+5ul	1	N/A	11	w/s	GRB	O	UVM051015-08C+UVM051122-08B
6 Dec 2005	03:50	9N112.D	12009------	N/A	BLANK	5ml	1	N/A	12	w/s	GRB	X	RINSE
6 Dec 2005	04:17	9N113.D	UVM051118-01	ICAL	ICAL1S	5ul	1	N/A	13	w/s	GRB	O	
6 Dec 2005	04:43	9N114.D	UVM051118-02	ICAL	ICAL2S	5ul	1	N/A	14	w/s	GRB	O	
6 Dec 2005	05:10	9N115.D	UVM051118-03	ICAL	ICAL3S	5ul	1	N/A	15	w/s	GRB	O	
6 Dec 2005	05:37	9N116.D	UVM051118-04	ICAL	ICAL4S	5ul	1	N/A	16	w/s	GRB	O	
6 Dec 2005	06:03	9N117.D	UVM051118-05	ICAL	ICAL5S	5ul	1	N/A	17	w/s	GRB	O	
6 Dec 2005	06:31	9N118.D	UVM051118-06	ICAL	ICAL6S	5ul	1	N/A	18	w/s	GRB	O	
6 Dec 2005	06:57	9N119.D	UVM051118-07	ICAL	ICAL7S	5ul	1	N/A	19	w/s	GRB	O	
6 Dec 2005	07:24	9N120.D	12009--------	N/A	BLANK	5ml	1	N/A	20	w/s	GRB	X	RINSE
6 Dec 2005	07:51	9N121.D	W9VM051205-09	ICV	ICV	5ml	1	N/A	21	w/s	GRB	X	UVM051119-01C+IVM051205-02
6 Dec 2005	08:18	9N122.D	W9VM051205-10	ICV	ICV	5ml	1	N/A	22	w/s	GRB	O	UVM051119-01D+IVM051205-02
6 Dec 2005	08:45	9N123.D	UVM051110-03D	ICV	ICV	5ml	1	N/A	23	w/s	GRB	X	
6 Dec 2005	09:12	9N124.D	UVM051202-01A	ICV	SHORTICV	5ml	1	N/A	24	w/s	GRB	O	
6 Dec 2005	09:38	9N125.D	UVM051202-01A	ICV	SHORTICV	5ml	1	N/A	25	w/s	GRB	X	NOT NEEDED
6 Dec 2005	10:06	9N126.D	12009--------	N/A	BLANK	5ml	1	N/A	26	w/s	GRB	X	RINSE
6 Dec 2005	10:33	9N127.D	12009--------	N/A	BLANK	5ml	1	N/A	27	w/s	GRB	X	RINSE

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

ORGANIC RUN LOG - INSTRUMENT ID#VOA9

Date: 1/3/06 Method 8260 Operator: TLW

REVIEWED BY: [illegible]
DATE: 1-4-06

HARDWARE CONFIGURATION & METHOD CONDITIONS SUMMARY No# 1

Daily Instrument Readings:
Multiplier Voltage: 2259

CALIBRATION & CC INFORMATION:

Initial Calibration Date: 12/5/05

(See pg. 202 for ICAL Std. Sci. Ids)

Sequence Number: 010306V9

Daily Standard	Solution ID#	Volume Added for Purge (ul) Blk/ Smpl	CCV	MS/ LCS	BFB
CCV	W9V060103-01		5+5		
IS	UVM051115-01	1	1	1	
SS	UVM051115-02	1	0/1	1	
LCS/MS	W9V060103-03			5+5	
BFB	UVM050816-02				1
SHORT	UVM051202-01B		5		
DHEC	UVM051117-01E			5	

Purge Amount	
N/A	Water Purge Vol:
5	Soil Purge Wt.
N/A	Mid level ext. MeOH Vol:
N/A	ul
N/A	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(√/X)	Comments
3 Jan 2006 18:23	9R101.D	UVM050816-02	[redacted]	BFB	5.0G	1	N/A	1	s	TLW	O	
3 Jan 2006 18:51	9R102.D	W9V060103-01	[redacted]	CCV	5.0G	1	N/A	2	s	TLW	O	UVM051216-07A+UVM051216-16B
3 Jan 2006 19:18	9R103.D	W9V060103-02	[redacted]	LCS	5.0G	1	N/A	3	s	TLW	X	NOT USED
3 Jan 2006 19:45	9R104.D	UVM051202-01B	[redacted]	SHORT	5.0G	1	N/A	4	s	TLW	O	
3 Jan 2006 20:13	9R105.D	UVM051117-01E	[redacted]	DHEC	5.0G	1	N/A	5	s	TLW	O	
3 Jan 2006 20:40	9R106.D	12009-------	[redacted]	BLANK	5.0G	1	N/A	6	s	TLW	X	
3 Jan 2006 21:08	9R107.D	12009-------	[redacted]	BLANK	5.0G	1	N/A	7	s	TLW	O	VBLK01
3 Jan 2006 21:30	9R108.D	W9V060103-03	[redacted]	LCS	5.0G	1	N/A	8	s	TLW	O	UVM051214-01E+IVM051230-01
3 Jan 2006 22:18	9R109.D	12009-------	[redacted]	BLANK	5.0G	1	N/A	9	s	TLW	X	
3 Jan 2006 22:46	9R110.D	152616001	LANL	491532	5.0G	1	N/A	10	s	TLW	X	possible carryover
3 Jan 2006 23:13	9R111.D	152616002	LANL	491532	5.0G	1	N/A	11	s	TLW	O	
3 Jan 2006 23:43	9R112.D	152616001	LANL	491532	5.0G	1	N/A	10	s	TLW	O	
4 Jan 2006 00:10	9R113.D	1201004657	LANL	491532	5.0G	1	N/A	12	s	TLW	O	152616001PS (out of holding)
4 Jan 2006 00:38	9R114.D	1201004658	LANL	491532	5.0G	1	N/A	13	s	TLW	O	152616001PSD (out of holding)
4 Jan 2006 01:05	9R115.D	12009-------	[redacted]	BLANK	5.0G	1	N/A	15	s	TLW	X	
4 Jan 2006 01:32	9R116.D	151952001	[redacted]	490128	9.6G	1	N/A	16	s	TLW	X	CONFIRMATION ONLY
4 Jan 2006 01:59	9R117.D	151952002	[redacted]	490128	10G	1	N/A	17	s	TLW	X	CONFIRMATION ONLY

[illegible] 1-4-06

Page:___

Attachment F

Innovative Technical Solutions, Inc.

Photographic Documentation

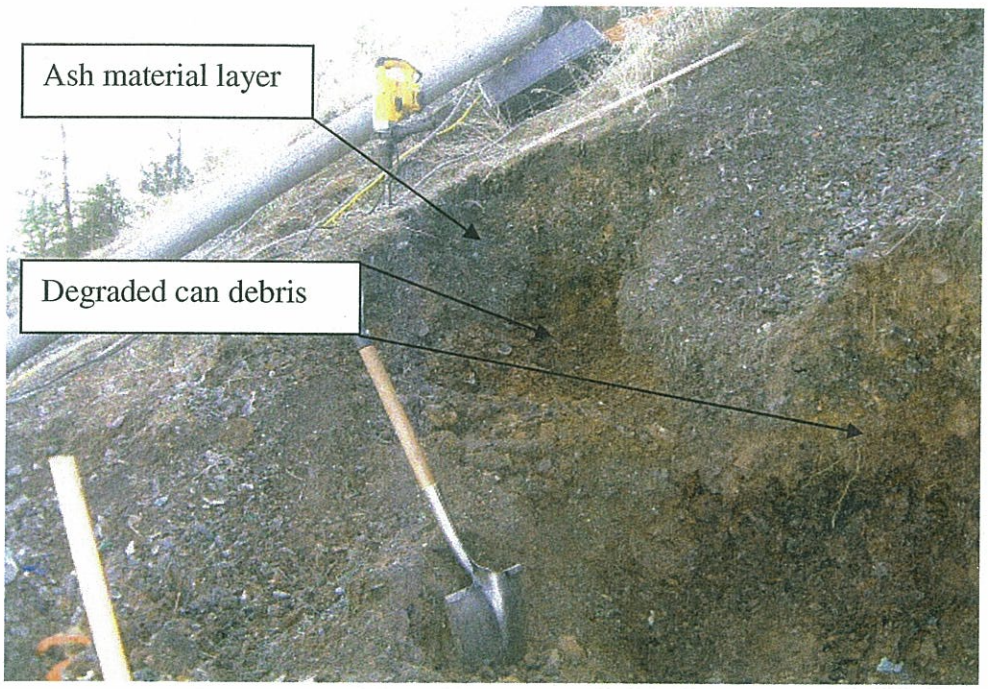
Corrective Action of SWMU 73-002
Contract No: DACA05-99-D-0014
Task Order CM26

Photograph No. 78

Date: 12-20-05

Time: 1045

Heading: E



Description:

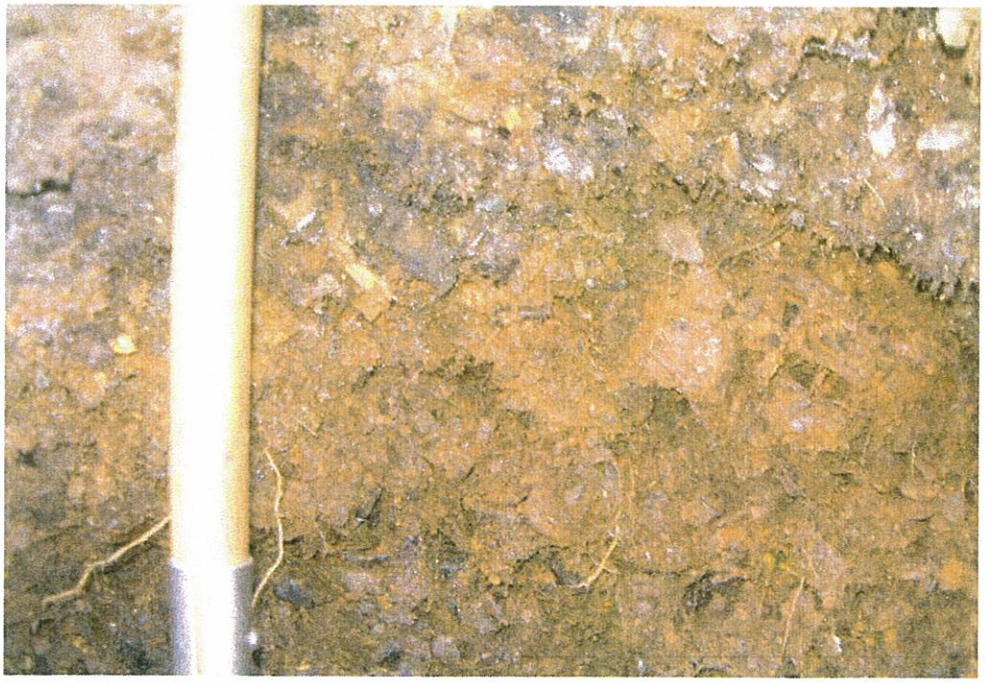
Overview of cross section of material at interface. Note debris layer below ash, with some ash mix within debris. Depth is approximant 3-4' deep.

Photograph No. 79

Date: 12-19-05

Time: 1055

Heading: N/A



Description:

Close-up of degraded can debris at interface of ash material and start of can dam.

Innovative Technical Solutions, Inc.

Photographic Documentation

Corrective Action of SWMU 73-002
Contract No: DACA05-99-D-0014
Task Order CM26

Photograph No. 80

Date: 12-20-05

Time: 1440

Heading: S

Description:

Overview test area on east side middle section of hill. Area was approximately 5-6' deep of ash, and not to tuff yet.

Photograph No. 81

Date: 12-20-05

Time: 1441

Heading: N/A

Description:

View of sidewall of removed ash on east side middle section of hill removed during test of Gap Vac unit. Note middle layer is mixed ash and debris.