Q3 ENTERED

LANL
Groundwater
R-61 Drilling Mud
Pit Samples
11/17/11
TA-5
Mortandad Canyon

ALS Environmental

Total Extractable Petroleum Hydrocarbons (Diesel)

Case Narrative

New Mexico Environment Department OB

LMW08 – 813-11.15.11(HWB Proj)PAR-all-files

Work Order Number: 1111251

1. This report consists of 1 water sample and 1 solid sample. The samples were received cool and intact by ALS on 11/17/2011.

2. The water sample was extracted by adding hexane to the water sample and shaking the resulting two phase solution according to SOP 603 Revision 12, which was developed at ALS. The hydrocarbons partition into the hexane layer, which is then removed for analysis.

   The solid sample was extracted by adding a methanol/water solution to the soil followed by hexane according to SOP 603 Revision 12, which was developed at ALS. This mixture is shaken and the hexane portion of the two-phase solution is removed for analysis.

3. The extracts were then analyzed using GC with a capillary column and a flame ionization detector (FID) according to SOP 406 Revision 15 generally based on SW-846 Method 8000B and Method 8015B. The procedures are based on this general method because SW-846 does not have a specific method for total extractable petroleum hydrocarbons (TEPH) or diesel range organics. The only true modification from this method is that TEPH is a multicomponent mixture and is quantitated by summing the entire range, rather than individual peaks. All positive results were quantitated using the responses from the initial calibration curve using the external standard technique. Also, a confirmation column is not used, because the analyte is a multicomponent mixture and the specific carbon range of the peaks detected is specified on the individual sample reporting forms.

4. All initial and continuing calibration criteria were met.

5. The method blanks associated with this project were below the MDL for diesel range organics.

6. All laboratory control sample and laboratory control sample duplicate recoveries and RPDs were within the acceptance criteria.

35029

7. Per method requirements, matrix QC was performed for this analysis. Since a sample from this order number was not the selected quality control (QC) sample, matrix specific QC results are not included in this report.

8. All samples were extracted and analyzed within the established holding time.

9. A surrogate recovery could not be reported for sample -3 due to the dilution needed to bring the target analyte into the linear range of the instrument. All other surrogate recoveries were within the acceptance criteria.

10. Sample -3 was analyzed at a dilution in order to bring the target analyte within the calibration range of the instrument. The reporting limits have been adjusted accordingly.

11. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in SOP 939 Revision 4.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Mindy Norton — 12.8.11

Mindy Norton
Organics Primary Data Reviewer

Date

Joel Noce — 12-8-11

Organics Final Data Reviewer

Date

ALS
Data Qualifier Flags
Fuels

G: This flag indicates that a pattern resembling gasoline was detected in this sample.

D: This flag indicates that a pattern resembling diesel was detected in this sample.

M: This flag indicates that a pattern resembling motor oil was detected in this sample.

C: This flag indicates that a pattern resembling crude oil was detected in this sample.

4: This flag indicates that a pattern resembling JP-4 was detected in this sample.

5: This flag indicates that a pattern resembling JP-5 was detected in this sample.

H: This flag indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.

L: This flag indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.

Z: This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
gasoline
JP-8
diesel
mineral spirits
motor oil
Stoddard solvent
bunker C

Multiple flags may be used to indicate the presence of more than one product or component.

ALS
Data Qualifier Flags
Chromatography and Mass Spectrometry

U or ND:	This flag indicates that the compound was analyzed for but not detected.
J:	This flag indicates an estimated value. This flag is used as follows : (1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the reporting limit (RL) but greater than the method detection limit (MDL); (3) when the data indicate the presence of a compound that meets the identification criteria, and the result is less than the RL but greater than the MDL; and (4) the reported value is estimated.
B:	This flag is used when the analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user. This flag shall be used for a tentatively identified compound (TIC) as well as for a positively identified target compound.
E:	This flag identifies compounds whose concentration exceeds the upper level of the calibration range.
A:	This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.
X:	This flag indicates that the analyte was diluted below an accurate quantitation level.
*:	This flag indicates that a spike recovery is outside the control criteria.
+:	This flag indicates that the relative percent difference (RPD) exceeds the control criteria.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1111251
Client Name: New Mexico Environment Department OB
Client Project Name: LMW08
Client Project Number: 813-11.15.11(HWB Proj)PAR-all-files
Client PO Number: 10-667-00-13453

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
R-61 Sc 1-11-15-VOC	1111251-1		WATER	15-Nov-11	9:40
R-61 Sc 1-11-15-SVOC	1111251-2		WATER	15-Nov-11	9:40
SWR61PADBASIN	1111251-3		SOLID	15-Nov-11	10:37

Chain of Custody Record

111251

SHIP TO:

Paragon Analytics
225 Commerce Drive
Fort Collins CO 80524
(970) 490-1511

MAIL REPORT TO:

Kim Granzow
NMED DOE Oversight Bureau
1183 Diamond Drive Suite B
Los Alamos New Mexico 87544
kgranzow@lanl.gov

Initials

KG
(505) 661-4008

BILL TO:

Dave Cobrain
New Mexico Environ. Dept. Hazardous Waste Bureau
2905 Rodeo Park Drive East Bldg 1
Santa Fe, NM 87505-2567
505-476-6055/505-476-6017

Project Number: 813-11.15.11(HWB Proj)PAR-all-files
(Lab Invoice Use Only)

LMW08

				DRO-Fuel Hydrocarbons Full Range Diesel Range Organics (Line item # 163) $40	SVOCs (line item # 116) $275 Please run 1,4-dioxane analysis	VOCs (Line item # 104) $140	DRO-Fuel Hydrocarbons, Full Range Diesel Range Organics (Line item # 163) $40	SVOCs (line item # 116) $275 Please run 1,4-dioxane analysis	VOCs (Line item # 104) $140	Special Services (Line item #620) $50	Sr-90 (Line item # 336) $105	Iso-U (Line item # 314) $100	Nitrate and Nitrite (Line item #542) $15	Ammonia as N (Line item #543) $15	TKN (Line item # 544) $65	
				NF/NA	NF/NA	NF/HCl	SOLID	SOLID	SOLID		F/Nitric	F/Nitric	F/H2SO4			
			Line Item No	163	116	104	163	116	104	620	336	314	542	543	544	
			Price per Sample	$ 40.00	$ 275.00	$ 140.00	$ 40.00	$ 275.00	$ 140.00	$ 50.00	$ 105.00	$ 100.00	$ 15.00	$ 15.00	$ 65.00	
Lab ID Number	**NMED - Sample ID**	**Date**	**Time**													
1	**R-61 Sc 1-11-15-VOC**	**11/15/2011**	**9:40**			X				X						3-40 ml glass voa vials
2	**R-61 Sc 1-11-15-SVOC**	**11/15/2011**	**9:40**	X	X					X						2-1L glass amber
3	**SWR61PADBASIN**	**11/15/2011**	**10:37**				X	X	X							1-250 ml glass amber
			Total No. of Samples	1		1	1	1	1	2						

Date/Time	**Relinquished By:**	
11/16/11 3:30 PM		Sign
	Michael Dale	Michael Dale Print
	NMED DOE Oversight Bureau	Co./Org
Date/Time	**Received By:**	
11-17-11	C Trimble	Sign
0940	C Trimble	Print
	ALS	Co./Org.

Comments: Please run 1,4-dioxane analysis

QC Level **Standard**
QC Required MS MSD Blank
Turn Around Time (TAT) **Standard**

☐ **Place "X" in box if there are less than 5 total samples for shipping costs.**

ALS Laboratory Group - Fort Collins

CONDITION OF SAMPLE UPON RECEIPT FORM

Client: NMED Workorder No: 1111251

Project Manager: LS Initials: CDT Date: 11-17-11

1	Does this project require any **special handling** in addition to standard Paragon procedures?		YES	(NO)
2	Are custody **seals** on **shipping containers** intact?	NONE	(YES)	NO
3	Are Custody seals on **sample containers** intact?	NONE	(YES)	NO
4	Is there a **COC (Chain-of-Custody) present** or other representative documents?		(YES)	NO
5	Are the **COC and bottle labels complete and legible**?		(YES)	NO
6	Is the **COC in agreement** with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		(YES)	NO
7	Were **airbills / shipping documents** present and/or removable?	DROP OFF	(YES)	NO
8	Are all **aqueous samples requiring preservation preserved correctly? (excluding volatiles)**	(N/A)	~~YES~~ CDT 11-17-11	NO
9	Are all aqueous **non-preserved samples pH 4-9**?	N/A	(YES)	NO
10	Is there **sufficient sample** for the requested analyses?		(YES)	NO
11	Were all samples placed in the **proper containers** for the requested analyses?		(YES)	NO
12	Are all samples within **holding times** for the requested analyses?		(YES)	NO
13	Were all sample containers received **intact**? (not broken or leaking, etc.)		(YES)	NO
14	Are all samples requiring **no** headspace (**VOC, GRO, RSK/MEE, Rx CN/S, radon**) headspace free? **Size of bubble**: ____ < green pea ____ > green pea	N/A	(YES)	NO
15	Do perchlorate LCMS-MS samples **have** headspace? (at least 1/3 of container required)	(N/A)	YES	NO
16	Were samples checked for and free from the presence of **residual chlorine?** (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	(N/A)	YES	NO
17	Were the samples **shipped on ice**?		(YES)	NO
18	Were cooler temperatures measured at 0.1-6.0°C? **IR gun used*:** #2 (#4) RAD ONLY		(YES)	NO

Cooler #: 1

Temperature (°C): 5.4°

No. of custody seals on cooler: 2

DOT Survey Acceptance Information

External µR/hr reading: 14

Background µR/hr reading: 13

Were external µR/hr readings < two times background and within DOT acceptance criteria? **YES / NO / NA** (If no, see Form 008.)

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

Solid sample appears to have been mixed with sed. No sed layer at bottom.

If applicable, was the client contacted? **YES / NO / NA** Contact: _____ Date/Time: _____

Project Manager Signature / Date: _____ 11/21/11

*IR Gun #2: Oakton, SN 29922500201-0066 *IR Gun #4: Oakton, SN 2372220101-0002

Form 201r22 xls (6/1/09)

FedEx Express **NEW** Package US Airbill

FedEx Tracking Number 8758 4918 1396

0200 Form ID No.

11-1-1251

FedEx Retrieval Copy

1 From

Date 11-16-11 Sender's FedEx Account Number

Sender's Name NMED Phone 505 661-2679

Company NMED

Address 1183 Diamond Dr, Suite B Dept./Floor/Suite/Room

City Los Alamos State NM ZIP 87544

2 Your Internal Billing Reference 813-11.15.11(HW3)

3 To

Recipient's Name Lance Steere Phone 970 490-1511

Company Paragon Analytics, Inc (ALS)

Address 225 Commerce Drive Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

01 ☐ HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Address

Use this line for the HOLD location address or for continuation of your shipping address

31 ☐ HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

City Ft. Collins State Co ZIP 80524

8758 4918 1396

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

06 ☐ FedEx First Overnight Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

01 ☒ FedEx Priority Overnight Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

05 ☐ FedEx Standard Overnight Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

49 ☐ NEW FedEx 2Day A.M. Second business morning.* Saturday Delivery NOT available.

03 ☐ FedEx 2Day Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

06 ☐ FedEx Envelope* 02 ☐ FedEx Pak* 03 ☐ FedEx Box 04 ☐ FedEx Tube 01 ☒ Other

6 Special Handling and Delivery Signature Options

03 ☐ **SATURDAY DELIVERY**

☒ No Signature Required Package may be left without obtaining a signature for delivery

10 ☐ Direct Signature Someone at recipient's address may sign for delivery. Fee applies.

34 ☐ Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

☒ No 04 ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. 06 ☐ Dry Ice Dry ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

1 ☐ Sender Acct. No. in Section 1 will be billed 2 ☒ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

[redacted] 78

Total Packages 1 Total Weight 30 lbs [redacted] Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

612

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14

2

5.4

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Diesel Range Organics

Method SW8015MB
Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111122-1MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 22-Nov-11
Date Analyzed: 23-Nov-11

Prep Batch: EX111122-1
QCBatchID: EX111122-1-1
Run ID: HCD111122-3A
Cleanup: NONE
Basis: N/A
File Name: F3F41436

Sample Aliquot: 160 ml
Final Volume: 4 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
68334-30-5	Diesel Range Organics	1	0.5	0.5	0.15	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
84-15-1	O-TERPHENYL	1.07		1.25	86	57 - 132

Data Package ID: *HCD1111251-1*

Diesel Range Organics

Method SW8015MB

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID: R-61 Sc 1-11-15-SVOC
Lab ID: 1111251-2

Analysis ReqCode: 163

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 15-Nov-11
Date Extracted: 22-Nov-11
Date Analyzed: 23-Nov-11
Prep Method: METHOD

Prep Batch: EX111122-1
QCBatchID: EX111122-1-1
Run ID: HCD111122-3A
Cleanup: NONE
Basis: As Received
File Name: F3F41446

Sample Aliquot: 160 ml
Final Volume: 4 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
68334-30-5	Diesel Range Organics	1	0.5	0.5	0.15	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
84-15-1	O-TERPHENYL	1		1.25	80	57 - 132

Data Package ID: *HCD1111251-1*

Diesel Range Organics

Method SW8015MB
Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111128-8MB

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: N/A
Date Extracted: 28-Nov-11
Date Analyzed: 02-Dec-11

Prep Batch: EX111128-8
QCBatchID: EX111128-8-1
Run ID: HCD111201-3A
Cleanup: NONE
Basis: N/A
File Name: F3F41481

Sample Aliquot: 20 g
Final Volume: 5 ml
Result Units: MG/KG
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
68334-30-5	Diesel Range Organics	1	5	5	1.5	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
84-15-1	O-TERPHENYL	8.59		12.5	69	47 - 142

Data Package ID: *HCD1111251-1*

Diesel Range Organics

Method SW8015MB

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID: SWR61PADBASIN
Lab ID: 1111251-3

Analysis ReqCode: 163

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: 15-Nov-11
Date Extracted: 28-Nov-11
Date Analyzed: 02-Dec-11
Prep Method: METHOD

Prep Batch: EX111128-8
QCBatchID: EX111128-8-1
Run ID: HCD111201-3A
Cleanup: NONE
Basis: As Received
File Name: F3F41484

Sample Aliquot: 5.04 g
Final Volume: 5 ml
Result Units: MG/KG
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
68334-30-5	Diesel Range Organics	20	2900	400	120	Z,H	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
84-15-1	O-TERPHENYL		X	49.6		47 - 142

The chromatogram for Diesel Range Organics indicates the presence of hydrocarbons in the range of C8 - C40+.

Data Package ID: *HCD1111251-1*

Diesel Range Organics

Method SW8015MB

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111122-1LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/22/2011
Date Analyzed: 11/23/2011
Prep Method: METHOD

Prep Batch: EX111122-1
QCBatchID: EX111122-1-1
Run ID: HCD111122-3A
Cleanup: NONE
Basis: N/A
File Name: F3F41437

Sample Aliquot: 160 ml
Final Volume: 4 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
68334-30-5	Diesel Range Organics	5	4.75	0.5		95	36 - 150%

Lab ID: EX111122-1LCSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/22/2011
Date Analyzed: 11/23/2011
Prep Method: METHOD

Prep Batch: EX111122-1
QCBatchID: EX111122-1-1
Run ID: HCD111122-3A
Cleanup: NONE
Basis: N/A
File Name: F3F41438

Sample Aliquot: 160 ml
Final Volume: 4 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
68334-30-5	Diesel Range Organics	5	4.8	0.5		96	20	1

Surrogate Recovery LCS/LCSD

CASNO	Target Analyte	Spike Added	LCS % Rec.	LCS Flag	LCSD % Rec.	LCSD Flag	Control Limits
84-15-1	O-TERPHENYL	1.25	91		92		57 - 132

Data Package ID: *HCD1111251-1*

Diesel Range Organics

Method SW8015MB

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111128-8LCS

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/28/2011
Date Analyzed: 12/02/2011
Prep Method: METHOD

Prep Batch: EX111128-8
QCBatchID: EX111128-8-1
Run ID: HCD111201-3A
Cleanup: NONE
Basis: N/A
File Name: F3F41482

Sample Aliquot: 20 g
Final Volume: 5 ml
Result Units: MG/KG
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
68334-30-5	Diesel Range Organics	50	50.9	5		102	43 - 139%

Lab ID: EX111128-8LCSD

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/28/2011
Date Analyzed: 12/02/2011
Prep Method: METHOD

Prep Batch: EX111128-8
QCBatchID: EX111128-8-1
Run ID: HCD111201-3A
Cleanup: NONE
Basis: N/A
File Name: F3F41483

Sample Aliquot: 20 g
Final Volume: 5 ml
Result Units: MG/KG
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
68334-30-5	Diesel Range Organics	50	52.5	5		105	20	3

Surrogate Recovery LCS/LCSD

CASNO	Target Analyte	Spike Added	LCS % Rec.	LCS Flag	LCSD % Rec.	LCSD Flag	Control Limits
84-15-1	O-TERPHENYL	12.5	66		68		47 - 142

Data Package ID: *HCD1111251-1*

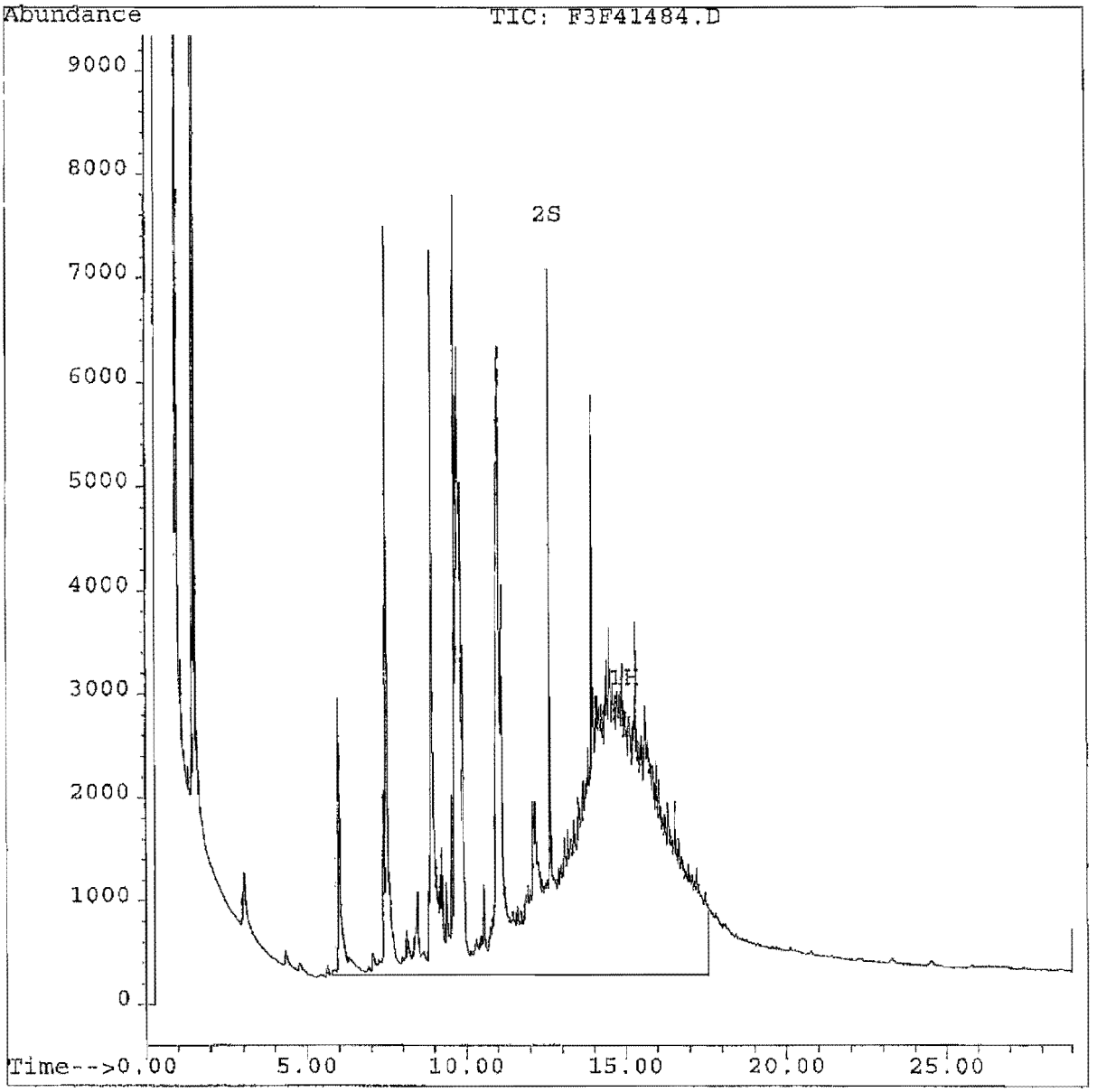
Quantitation Report

Data File : C:\HPCHEM\5\DATA\12012011\F3F41484.D
Acq On : 02 Dec 11 07:44 AM
Sample : 1111251-3 20x
Misc : solid, 50uL/1mL FV
Quant Time: Dec 2 20:38 19111

Vial: 16
Operator: jfn
Inst : FUELS 3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\D111811A.M
Title : 8015Bmod, CALuft
Last Update : Fri Dec 02 20:33:35 2011
Response via : Multiple Level Calibration

Volume Inj. : 2uL
Signal Phase : DB-5.625, 20m x 0.25mm x 0.5µm
Signal Info : FID



ALS Environmental

GC/MS Semivolatiles

Case Narrative

New Mexico Environment Department OB

LMW08 – 813-11.15.11(HWB Proj)PAR-all-files

Work Order Number: 1111251

1. This report consists of 1 water sample and 1 solid sample. These samples were received cool and intact by ALS on 11/17/11.

2. These samples were prepared and analyzed according to SW-846, 3rd Edition procedures.

   The water sample was extracted using continuous liquid-liquid extractors, according to SW-846 Method 3520C utilizing SOP 617 Revision 14.

   The solid sample was extracted using soxhlet procedures according to SW-846 Method 3540C utilizing SOP 625 Revision 12. This sample could only be brought to a final volume of 7 ml due to matrix issues, reporting limits have been adjusted to reflect this issue.

3. The extracts were analyzed using GC/MS with a DB-5MS capillary column according to SOP 506 Revision 19 based on SW-846 Method 8270D. All positive results were quantitated against the initial calibration standards using the internal standard technique. The identification of positive results was achieved by a comparison of the retention time and mass spectrum of the sample versus the daily calibration standard.

4. All initial calibration criteria were met. If average response factors were used in the initial calibration, %RSD was ≤20%. If linear or higher order regression calibrations were used in the initial calibration, the coefficient of determination (r^2) ≥0.99.

5. All initial calibration standards are verified by comparing a second source standard initial calibration verification (ICV) against the calibration curve. All target compounds in the second source verification had a %D ≤30%.

6. All compounds in each of the daily (continuing) calibration verifications were within 20%D with the exceptions of n-nitrosopyrrolidine, n-nitrosodi-n-butylamine and atrazine which were high on 12/01/11 and dinoseb which was low on 12/01/11. None of these compounds were detected in the associated samples.

7. All method blank criteria were met.

8. All laboratory control sample and laboratory control sample duplicate criteria were met with the following exception:

Spiked Compound	QC Sample	Direction
Benzidine	EX111121-4LCS/LCSD & EX111128-4LCS/LCSD	Low

Benzidine is subject to oxidative losses during solvent concentration. The chromatographic behavior is non-reproducible and poor.

9. Since a sample from this order number was not the selected quality control (QC) sample, matrix specific QC results are not included in this report.

10. The samples were extracted and analyzed within the established holding times.

11. All surrogate recoveries were within acceptance limits with the following exceptions:

Surrogate	Sample	Direction
2,4,6-Tribromophenol	1111251-2 & EX111121-4LCS/LCSD	High

Because of the number of surrogates used by this method, the laboratory allows for samples to have one acid and/or one base/neutral surrogate outside limits if the remaining surrogates suggest the problem is matrix related and that there were no problems with the laboratories performance during the extraction and analysis.

12. All internal standard recoveries were within acceptance criteria with the following exceptions:

Internal Standard	Sample	Direction
Phenanthrene-D_{10}	1111251-3	Low
Chrysene-D_{12}	1111251-3	Low

Re-analysis of the sample at dilution confirmed the original result. This suggests that the outliers were due to matrix effects. No further action was taken.

13. Due to matrix effects, a smaller initial aliquot of samples 1111251-3 was used. The final volume of this sample was 7ml, resulting in elevated reporting limits.

14. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in SOP 939 Revision 4.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Emily Hellickson
Organics Primary Data Reviewer

19 Dec. 11
Date

Organics Final Data Reviewer

December 13, 2011
Date

ALS
Data Qualifier Flags
Chromatography and Mass Spectrometry

U or ND:	This flag indicates that the compound was analyzed for but not detected.
J:	This flag indicates an estimated value. This flag is used as follows: (1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the reporting limit (RL) but greater than the method detection limit (MDL); (3) when the retention time data indicate the presence of a compound that meets the GC identification criteria, and the result is less than the RL but greater than the MDL; and (4) the reported value is estimated.
B:	This flag is used when the analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user. This flag shall be used for a tentatively identified compound (TIC) as well as for a positively identified target compound.
E:	This flag identifies compounds whose concentration exceeds the upper level of the calibration range.
A:	This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.
X:	This flag indicates that the analyte was diluted below an accurate quantitation level.
*:	This flag indicates that a spike recovery is equal to or outside the control criteria used.
+:	This flag indicates that the relative percent difference (RPD) equals or exceeds the control criteria.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1111251
Client Name: New Mexico Environment Department OB
Client Project Name: LMW08
Client Project Number: 813-11.15.11(HWB Proj)PAR-all-files
Client PO Number: 10-667-00-13453

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
R-61 Sc 1-11-15-VOC	1111251-1		WATER	15-Nov-11	9:40
R-61 Sc 1-11-15-SVOC	1111251-2		WATER	15-Nov-11	9:40
SWR61PADBASIN	1111251-3		SOLID	15-Nov-11	10:37

Chain of Custody Record

111251

SHIP TO:

Paragon Analytics
225 Commerce Drive
Fort Collins, CO 80524
(970) 490 1511

MAIL REPORT TO:

Kim Granzow
NMED-DOE Oversight Bureau
1183 Diamond Drive Suite B
Los Alamos New Mexico 87544
kgranzow@lanl.gov

Initials
KG
(505) 661-4008

BILL TO:

Dave Cobrain
New Mexico Environ Dept Hazardous Waste Bureau
2905 Rodeo Park Drive East Bldg 1
Santa Fe, NM 87505-2567
505-476-6055/505-476-6017

Project Number: 813-11 15.11(HWB Proj)PAR-all-files
(Lab Invoice Use Only)

LMW08

				DRO-Fuel Hydrocarbons Full Range Diesel Range Organics (Line Item # 163) $40	SVOCs (line item # 116) $275 Please run 1,4 dioxane analysis	VOCs (Line Item # 104) $140	DRO-Fuel Hydrocarbons, Full Range Diesel Range Organics (Line Item # 163) $40	SVOCs (line item # 116) $275 Please run 1,4-dioxane analysis	VOCs (Line Item # 104) $140	Special Services (Line item #620) $50	Sr-90 (Line item # 336) $105	Iso-U (Line Item # 314) $100	Nitrate and Nitrite (Line Item #542) $15	Ammonia as N (Line Item #543) $15	TKN (Line Item # 544) $65	
				NP/NA	NP/NA	NP/HCl	SOLID	SOLID	SOLID		FINBK	FINBK	FH2SO4			
			Line Item No	163	116	104	163	116	104	620	336	314	542	543	544	
			Price per Sample	$ 40 00	$ 275 00	$ 140 00	$ 40 00	$ 275 00	$ 140 00	$ 50 00	$ 105 00	$ 100 00	$ 15 00	$ 15 00	$ 65 00	
Lab ID Number	**NMED - Sample ID**	**Date**	**Time**													
1	**R-61 Sc 1-11-15-VOC**	**11/15/2011**	**9:40**			X				X						3-40 ml glass voa vials
2	**R-61 Sc 1-11-15-SVOC**	**11/15/2011**	**9:40**	X	X					X						2-1L glass amber
3	**SWR61PADBASIN**	**11/15/2011**	**10:37**				X	X	X							1-250 ml glass amber
Date/Time	**Relinquished By:**		Total No. of Samples	1		1	1	1	1	2						
11/16/11 3:30 PM		Sign														
	Michael Dale	Michael Dale Print														
	NMED DOE Oversight Bureau	Co./Org														
Date/Time	**Received By:**															
11-17-11	C Trimble	Sign														
0940	C Trimble	Print														
	ALS	Co./Org.														

Comments: Please run 1,4-dioxane analysis

QC Level **Standard**
QC Required MS MSD Blank
Turn Around Time (TAT) **Standard**

☐ **Place "X" in box if there are less than 5 total samples for shipping costs.**

ALS Laboratory Group - Fort Collins

CONDITION OF SAMPLE UPON RECEIPT FORM

Client: NMED Workorder No: 1111251

Project Manager: LS Initials: CDT Date: 11-17-11

1	Does this project require any **special handling** in addition to standard Paragon procedures?		YES	(NO)
2	Are custody **seals** on **shipping containers** intact?	NONE	(YES)	NO
3	Are Custody seals on **sample containers** intact?	NONE	(YES)	NO
4	Is there a **COC (Chain-of-Custody) present** or other representative documents?		(YES)	NO
5	Are the **COC and bottle labels complete and legible**?		(YES)	NO
6	Is the **COC in agreement** with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		(YES)	NO
7	Were **airbills / shipping documents** present and/or removable?	DROP OFF	(YES)	NO
8	Are all **aqueous samples requiring preservation preserved correctly? (excluding volatiles)**	(N/A)	(YES) CDT 11-17-11	NO
9	Are all aqueous **non-preserved samples pH 4-9**?	N/A	(YES)	NO
10	Is there **sufficient sample** for the requested analyses?		(YES)	NO
11	Were all samples placed in the **proper containers** for the requested analyses?		(YES)	NO
12	Are all samples within **holding times** for the requested analyses?		(YES)	NO
13	Were all sample containers received **intact**? (not broken or leaking, etc.)		(YES)	NO
14	Are all samples requiring **no** headspace (**VOC, GRO, RSK/MEE, Rx CN/S, radon**) headspace free? **Size of bubble**: ____ < green pea ____ > green pea	N/A	(YES)	NO
15	Do perchlorate LCMS-MS samples **have** headspace? (at least 1/3 of container required)	(N/A)	YES	NO
16	Were samples checked for and free from the presence of **residual chlorine?** (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	(N/A)	YES	NO
17	Were the samples **shipped on ice**?		(YES)	NO
18	Were cooler temperatures measured at 0.1-6.0°C? **IR gun used*:** #2 (#4)	RAD ONLY	(YES)	NO

Cooler #:	1							
Temperature (°C):	5.4°							
No. of custody seals on cooler:	2							
DOT Survey Acceptance Information — External µR/hr reading:	14							
Background µR/hr reading:	13							

Were external µR/hr readings < two times background and within DOT acceptance criteria? **YES / NO / NA** (If no, see Form 008.)

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

Solid sample appears to have been mixed with sed. No sed layer at bottom.

If applicable, was the client contacted? **YES / NO / NA** Contact: _____ Date/Time: _____

Project Manager Signature / Date: _____ 11/21/11

*IR Gun #2: Oakton, SN 29922500201-0066 *IR Gun #4: Oakton, SN 2372220101-0002

Form 201r22 xls (6/1/09)

FedEx Express **NEW Package US Airbill**

FedEx Tracking Number 8758 4918 1396 0200 Form ID No

11 1 1 251

FedEx Retrieval Copy

1 From

Date 11-16-11 Sender's FedEx Account Number

Sender's Name NMED Phone 505 661-2670

Company NMED

Address 1183 Diamond Dr, Suite B Dept./Floor/Suite/Room

City Los Alamos State NM ZIP 87544

2 Your Internal Billing Reference 813-11.15.11(HW3)

3 To

Recipient's Name Lance Steere Phone 970 490-1511

Company Paragon Analytics, Inc (ALS)

Address 225 Commerce Drive Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Use this line for the HOLD location address or for continuation of your shipping address

City Ft. Collins State Co ZIP 80524

01 ☐ HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

31 ☐ HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

8758 4918 1396

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

06 ☐ FedEx First Overnight Earliest next business morning delivery to select locations. Heavy shipments will be delivered on Monday unless SATURDAY Delivery is selected.

01 ☒ FedEx Priority Overnight Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

05 [redacted] Overnight [redacted] afternoon.* [redacted] Delivery NOT available.

2 or 3 Business Days

49 ☐ NEW FedEx 2Day A.M. Second business morning.* Saturday Delivery NOT available.

03 ☐ FedEx 2Day Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver Third business day.* Saturday Delivery NOT available

5 Packaging * Declared value limit $500.

06 ☐ FedEx Envelope* 02 ☐ FedEx Pak* 03 ☐ FedEx Box 04 ☐ FedEx Tube 01 ☒ Other

6 Special Handling and Delivery Signature Options

03 ☐ **SATURDAY DELIVERY**

☒ No Signature Required Package may be left without obtaining a signature for delivery

10 ☐ Direct Signature Someone at recipient's address may sign for delivery. Fee applies.

34 ☐ Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

☒ No 04 ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. 06 ☐ Dry Ice Dry ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

1 ☐ Sender Acct. No. in Section 1 will be billed 2 ☒ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

[redacted] 78

Total Packages 1 Total Weight 30 lbs. [redacted] Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

612

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14

2

5.4

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GC/MS Semi-volatiles

Method SW8270D
Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111128-4MB

Sample Matrix: SOIL
% Moisture: N/A
Date Collected: N/A
Date Extracted: 28-Nov-11
Date Analyzed: 01-Dec-11

Prep Batch: EX111128-4
QCBatchID: EX111128-4-1
Run ID: SV111201-4
Cleanup: NONE
Basis: N/A
File Name: N3811

Sample Aliquot: 30 g
Final Volume: 1 ml
Result Units: UG/KG
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
123-91-1	1,4-DIOXANE	1	330	330	36	U	
110-86-1	PYRIDINE	1	330	330	100	U	
62-75-9	N-NITROSODIMETHYLAMINE	1	330	330	45	U	
123-91-1	1,4-DIOXANE	1	330	330	36	U	
62-53-3	ANILINE	1	330	330	100	U	
108-95-2	PHENOL	1	330	330	100	U	
111-44-4	BIS(2-CHLOROETHYL)ETHER	1	330	330	100	U	
95-57-8	2-CHLOROPHENOL	1	330	330	100	U	
541-73-1	1,3-DICHLOROBENZENE	1	330	330	100	U	
106-46-7	1,4-DICHLOROBENZENE	1	330	330	100	U	
95-50-1	1,2-DICHLOROBENZENE	1	330	330	100	U	
100-51-6	BENZYL ALCOHOL	1	330	330	100	U	
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	1	330	330	100	U	
95-48-7	2-METHYLPHENOL	1	330	330	100	U	
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	1	330	330	100	U	
108-39-4	3+4-METHYLPHENOL	1	330	330	100	U	
67-72-1	HEXACHLOROETHANE	1	330	330	100	U	
98-95-3	NITROBENZENE	1	330	330	100	U	
78-59-1	ISOPHORONE	1	330	330	100	U	
88-75-5	2-NITROPHENOL	1	330	330	100	U	
105-67-9	2,4-DIMETHYLPHENOL	1	330	330	100	U	
111-91-1	BIS(2-CHLOROETHOXY)METHANE	1	330	330	100	U	
120-83-2	2,4-DICHLOROPHENOL	1	330	330	100	U	
65-85-0	BENZOIC ACID	1	1700	1700	500	U	
120-82-1	1,2,4-TRICHLOROBENZENE	1	330	330	100	U	
91-20-3	NAPHTHALENE	1	330	330	100	U	
106-47-8	4-CHLOROANILINE	1	330	330	100	U	
87-68-3	HEXACHLOROBUTADIENE	1	330	330	100	U	

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111128-4MB

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: N/A
Date Extracted: 28-Nov-11
Date Analyzed: 01-Dec-11

Prep Batch: EX111128-4
QCBatchID: EX111128-4-2
Run ID: SV111201-4
Cleanup: NONE
Basis: N/A
File Name: N3811

Sample Aliquot: 30 g
Final Volume: 1 ml
Result Units: UG/KG
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
59-50-7	4-CHLORO-3-METHYLPHENOL	1	330	330	100	U	
91-57-6	2-METHYLNAPHTHALENE	1	330	330	100	U	
77-47-4	HEXACHLOROCYCLOPENTADIENE	1	330	330	100	U	
88-06-2	2,4,6-TRICHLOROPHENOL	1	330	330	100	U	
95-95-4	2,4,5-TRICHLOROPHENOL	1	330	330	100	U	
91-58-7	2-CHLORONAPHTHALENE	1	330	330	100	U	
88-74-4	2-NITROANILINE	1	670	670	200	U	
131-11-3	DIMETHYL PHTHALATE	1	330	330	100	U	
606-20-2	2,6-DINITROTOLUENE	1	330	330	100	U	
208-96-8	ACENAPHTHYLENE	1	330	330	100	U	
99-09-2	3-NITROANILINE	1	670	670	200	U	
83-32-9	ACENAPHTHENE	1	330	330	100	U	
51-28-5	2,4-DINITROPHENOL	1	670	670	200	U	
100-02-7	4-NITROPHENOL	1	670	670	200	U	
132-64-9	DIBENZOFURAN	1	330	330	100	U	
121-14-2	2,4-DINITROTOLUENE	1	330	330	100	U	
58-90-2	2,3,4,6-TETRACHLOROPHENOL	1	330	330	100	U	
84-66-2	DIETHYL PHTHALATE	1	330	330	100	U	
86-73-7	FLUORENE	1	330	330	100	U	
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	1	330	330	100	U	
100-01-6	4-NITROANILINE	1	670	670	200	U	
103-33-3	AZOBENZENE	1	330	330	100	U	
534-52-1	4,6-DINITRO-2-METHYLPHENOL	1	670	670	200	U	
101-55-3	4-BROMOPHENYL PHENYL ETHER	1	330	330	100	U	
118-74-1	HEXACHLOROBENZENE	1	330	330	100	U	
87-86-5	PENTACHLOROPHENOL	1	670	670	200	U	
85-01-8	PHENANTHRENE	1	330	330	100	U	
120-12-7	ANTHRACENE	1	330	330	100	U	

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D
Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111128-4MB

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: N/A
Date Extracted: 28-Nov-11
Date Analyzed: 01-Dec-11

Prep Batch: EX111128-4
QCBatchID: EX111128-4-2
Run ID: SV111201-4
Cleanup: NONE
Basis: N/A
File Name: N3811

Sample Aliquot: 30 g
Final Volume: 1 ml
Result Units: UG/KG
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
84-74-2	DI-N-BUTYL PHTHALATE	1	330	330	100	U	
206-44-0	FLUORANTHENE	1	330	330	100	U	
92-87-5	BENZIDINE	1	330	330	76	U	
129-00-0	PYRENE	1	330	330	100	U	
85-68-7	BUTYL BENZYL PHTHALATE	1	330	330	100	U	
56-55-3	BENZO(A)ANTHRACENE	1	330	330	100	U	
91-94-1	3,3'-DICHLOROBENZIDINE	1	330	330	100	U	
218-01-9	CHRYSENE	1	330	330	100	U	
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	1	330	330	100	U	
117-84-0	DI-N-OCTYL PHTHALATE	1	330	330	100	U	
205-99-2	BENZO(B)FLUORANTHENE	1	330	330	100	U	
207-08-9	BENZO(K)FLUORANTHENE	1	330	330	100	U	
50-32-8	BENZO(A)PYRENE	1	330	330	100	U	
193-39-5	INDENO(1,2,3-CD)PYRENE	1	330	330	100	U	
53-70-3	DIBENZO(A,H)ANTHRACENE	1	330	330	100	U	
191-24-2	BENZO(G,H,I)PERYLENE	1	330	330	100	U	
1912-24-9	ATRAZINE	1	330	330	330	U	
88-85-7	DINOSEB	1	330	330	330	U	
924-16-3	N-NITROSODI-N-BUTYLAMINE	1	330	330	330	U	
55-18-5	N-NITROSODIETHYLAMINE	1	330	330	330	U	
86-30-6	N-NITROSODIPHENYLAMINE	1	330	330	100	U	
930-55-2	N-NITROSOPYRROLIDINE	1	330	330	330	U	
608-93-5	PENTACHLOROBENZENE	1	330	330	330	U	
95-94-3	1,2,4,5-TETRACHLOROBENZENE	1	330	330	330	U	
90-12-0	1-METHYLNAPHTHALENE	1	330	330	100	U	

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111128-4MB

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: N/A
Date Extracted: 28-Nov-11
Date Analyzed: 01-Dec-11

Prep Batch: EX111128-4
QCBatchID: EX111128-4-2
Run ID: SV111201-4
Cleanup: NONE
Basis: N/A
File Name: N3811

Sample Aliquot: 30g
Final Volume: 1 ml
Result Units: UG/KG
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
118-79-6	2,4,6-TRIBROMOPHENOL	2160		2500	87	33 - 107
321-60-8	2-FLUOROBIPHENYL	1580		1670	95	41 - 106
367-12-4	2-FLUOROPHENOL	2260		2500	91	32 - 98
4165-60-0	NITROBENZENE-D5	1540		1670	92	28 - 113
4165-62-2	PHENOL-D5	2090		2500	84	38 - 98
1718-51-0	TERPHENYL-D14	1460		1670	87	25 - 147

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID:
Lab ID: EX111128-4MB

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: N/A
Date Extracted: 28-Nov-11
Date Analyzed: 01-Dec-11

Prep Batch: EX111128-4
QCBatchID: EX111128-4-2
Run ID: SV111201-4
Cleanup: NONE
Basis: As Received

Sample Aliquot: 30g
Final Volume: 1 ml
Clean DF: 1
File Name: N3811

CASNO	Retention Time	Target Analyte	Dilution Factor	Result	Units	Qualifier
		NONE DETECTED	1			U

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111121-4MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 21-Nov-11
Date Analyzed: 06-Dec-11

Prep Batch: EX111121-4
QCBatchID: EX111121-4-2
Run ID: SV111206-1
Cleanup: NONE
Basis: N/A
File Name: N3833

Sample Aliquot: 1000 ml
Final Volume: 1 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
123-91-1	1,4-DIOXANE	1	10	10	0.64	U	
110-86-1	PYRIDINE	1	10	10	3	U	
62-75-9	N-NITROSODIMETHYLAMINE	1	10	10	3	U	
123-91-1	1,4-DIOXANE	1	10	10	0.64	U	
62-53-3	ANILINE	1	10	10	5.2	U	
108-95-2	PHENOL	1	10	10	3	U	
111-44-4	BIS(2-CHLOROETHYL)ETHER	1	10	10	3	U	
95-57-8	2-CHLOROPHENOL	1	10	10	3	U	
541-73-1	1,3-DICHLOROBENZENE	1	10	10	3	U	
106-46-7	1,4-DICHLOROBENZENE	1	10	10	3	U	
95-50-1	1,2-DICHLOROBENZENE	1	10	10	3	U	
100-51-6	BENZYL ALCOHOL	1	10	10	3	U	
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	1	10	10	3	U	
95-48-7	2-METHYLPHENOL	1	10	10	3	U	
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	1	10	10	3	U	
108-39-4	3+4-METHYLPHENOL	1	10	10	3	U	
67-72-1	HEXACHLOROETHANE	1	10	10	3	U	
98-95-3	NITROBENZENE	1	10	10	3	U	
78-59-1	ISOPHORONE	1	10	10	3	U	
88-75-5	2-NITROPHENOL	1	10	10	3	U	
105-67-9	2,4-DIMETHYLPHENOL	1	10	10	3	U	
111-91-1	BIS(2-CHLOROETHOXY)METHANE	1	10	10	3	U	
120-83-2	2,4-DICHLOROPHENOL	1	10	10	3	U	
65-85-0	BENZOIC ACID	1	50	50	39	U	
120-82-1	1,2,4-TRICHLOROBENZENE	1	10	10	3	U	
91-20-3	NAPHTHALENE	1	10	10	3	U	
106-47-8	4-CHLOROANILINE	1	10	10	3	U	
87-68-3	HEXACHLOROBUTADIENE	1	10	10	3	U	

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D
Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111121-4MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 21-Nov-11
Date Analyzed: 06-Dec-11

Prep Batch: EX111121-4
QCBatchID: EX111121-4-1
Run ID: SV111206-1
Cleanup: NONE
Basis: N/A
File Name: N3833

Sample Aliquot: 1000 ml
Final Volume: 1 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
59-50-7	4-CHLORO-3-METHYLPHENOL	1	10	10	3	U	
91-57-6	2-METHYLNAPHTHALENE	1	10	10	3	U	
77-47-4	HEXACHLOROCYCLOPENTADIENE	1	10	10	3	U	
88-06-2	2,4,6-TRICHLOROPHENOL	1	10	10	3	U	
95-95-4	2,4,5-TRICHLOROPHENOL	1	10	10	3	U	
91-58-7	2-CHLORONAPHTHALENE	1	10	10	3	U	
88-74-4	2-NITROANILINE	1	20	20	6	U	
131-11-3	DIMETHYL PHTHALATE	1	10	10	3	U	
606-20-2	2,6-DINITROTOLUENE	1	10	10	3	U	
208-96-8	ACENAPHTHYLENE	1	10	10	3	U	
99-09-2	3-NITROANILINE	1	20	20	6	U	
83-32-9	ACENAPHTHENE	1	10	10	3	U	
51-28-5	2,4-DINITROPHENOL	1	20	20	6	U	
100-02-7	4-NITROPHENOL	1	20	20	6	U	
132-64-9	DIBENZOFURAN	1	10	10	3	U	
121-14-2	2,4-DINITROTOLUENE	1	10	10	3	U	
58-90-2	2,3,4,6-TETRACHLOROPHENOL	1	10	10	3	U	
84-66-2	DIETHYL PHTHALATE	1	10	10	3	U	
86-73-7	FLUORENE	1	10	10	3	U	
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	1	10	10	3	U	
100-01-6	4-NITROANILINE	1	20	20	6	U	
103-33-3	AZOBENZENE	1	10	10	3	U	
534-52-1	4,6-DINITRO-2-METHYLPHENOL	1	20	20	6	U	
101-55-3	4-BROMOPHENYL PHENYL ETHER	1	10	10	3	U	
118-74-1	HEXACHLOROBENZENE	1	10	10	3	U	
87-86-5	PENTACHLOROPHENOL	1	20	20	6	U	
85-01-8	PHENANTHRENE	1	10	10	3	U	
120-12-7	ANTHRACENE	1	10	10	3	U	

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111121-4MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 21-Nov-11
Date Analyzed: 06-Dec-11

Prep Batch: EX111121-4
QCBatchID: EX111121-4-1
Run ID: SV111206-1
Cleanup: NONE
Basis: N/A
File Name: N3833

Sample Aliquot: 1000 ml
Final Volume: 1 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
84-74-2	DI-N-BUTYL PHTHALATE	1	10	10	3	U	
206-44-0	FLUORANTHENE	1	10	10	3	U	
92-87-5	BENZIDINE	1	10	10	38	U	
129-00-0	PYRENE	1	10	10	3	U	
85-68-7	BUTYL BENZYL PHTHALATE	1	10	10	3	U	
56-55-3	BENZO(A)ANTHRACENE	1	10	10	3	U	
91-94-1	3,3'-DICHLOROBENZIDINE	1	10	10	3	U	
218-01-9	CHRYSENE	1	10	10	3	U	
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	1	10	10	3	U	
117-84-0	DI-N-OCTYL PHTHALATE	1	10	10	3	U	
205-99-2	BENZO(B)FLUORANTHENE	1	10	10	3	U	
207-08-9	BENZO(K)FLUORANTHENE	1	10	10	3	U	
50-32-8	BENZO(A)PYRENE	1	10	10	3	U	
193-39-5	INDENO(1,2,3-CD)PYRENE	1	10	10	3	U	
53-70-3	DIBENZO(A,H)ANTHRACENE	1	10	10	3	U	
191-24-2	BENZO(G,H,I)PERYLENE	1	10	10	3	U	
1912-24-9	ATRAZINE	1	10	10	10	U	
88-85-7	DINOSEB	1	10	10	10	U	
924-16-3	N-NITROSODI-N-BUTYLAMINE	1	10	10	10	U	
55-18-5	N-NITROSODIETHYLAMINE	1	10	10	10	U	
86-30-6	N-NITROSODIPHENYLAMINE	1	10	10	3	U	
930-55-2	N-NITROSOPYRROLIDINE	1	10	10	10	U	
608-93-5	PENTACHLOROBENZENE	1	10	10	10	U	
95-94-3	1,2,4,5-TETRACHLOROBENZENE	1	10	10	10	U	
90-12-0	1-METHYLNAPHTHALENE	1	10	10	3	U	

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D
Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111121-4MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 21-Nov-11
Date Analyzed: 06-Dec-11

Prep Batch: EX111121-4
QCBatchID: EX111121-4-1
Run ID: SV111206-1
Cleanup: NONE
Basis: N/A
File Name: N3833

Sample Aliquot: 1000 ml
Final Volume: 1 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
118-79-6	2,4,6-TRIBROMOPHENOL	72.7		75	97	23 - 100
321-60-8	2-FLUOROBIPHENYL	48.8		50	98	21 - 106
367-12-4	2-FLUOROPHENOL	55.8		75	74	21 - 100
4165-60-0	NITROBENZENE-D5	51.1		50	102	34 - 111
4165-62-2	PHENOL-D5	59.9		75	80	15 - 104
1718-51-0	TERPHENYL-D14	41.3		50	83	33 - 111

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID:
Lab ID: EX111121-4MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 21-Nov-11
Date Analyzed: 06-Dec-11

Prep Batch: EX111121-4
QCBatchID: EX111121-4-2
Run ID: SV111206-1
Cleanup: NONE
Basis: As Received

Sample Aliquot: 1000 ml
Final Volume: 1 ml
Clean DF: 1
File Name: N3833

CASNO	Retention Time	Target Analyte	Dilution Factor	Result	Units	Qualifier
	3.61	OXYGENATED HYDROCARBON1	1	8.5	UG/L	J

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID: R-61 Sc 1-11-15-SVOC
Lab ID: 1111251-2

Analysis ReqCode: 115

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 15-Nov-11
Date Extracted: 21-Nov-11
Date Analyzed: 06-Dec-11
Prep Method: SW3520 Rev C

Prep Batch: EX111121-4
QCBatchID: EX111121-4-2
Run ID: SV111206-1
Cleanup: NONE
Basis: As Received
File Name: N3832

Sample Aliquot: 960 ml
Final Volume: 1 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
123-91-1	1,4-DIOXANE	1	10	10	0.67	U	
110-86-1	PYRIDINE	1	10	10	3.1	U	
62-75-9	N-NITROSODIMETHYLAMINE	1	10	10	3.1	U	
123-91-1	1,4-DIOXANE	1	10	10	0.67	U	
62-53-3	ANILINE	1	10	10	5.4	U	
108-95-2	PHENOL	1	10	10	3.1	U	
111-44-4	BIS(2-CHLOROETHYL)ETHER	1	10	10	3.1	U	
95-57-8	2-CHLOROPHENOL	1	10	10	3.1	U	
541-73-1	1,3-DICHLOROBENZENE	1	10	10	3.1	U	
106-46-7	1,4-DICHLOROBENZENE	1	10	10	3.1	U	
95-50-1	1,2-DICHLOROBENZENE	1	10	10	3.1	U	
100-51-6	BENZYL ALCOHOL	1	10	10	3.1	U	
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	1	10	10	3.1	U	
95-48-7	2-METHYLPHENOL	1	10	10	3.1	U	
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	1	10	10	3.1	U	
108-39-4	3+4-METHYLPHENOL	1	4.2	10	3.1	J	
67-72-1	HEXACHLOROETHANE	1	10	10	3.1	U	
98-95-3	NITROBENZENE	1	10	10	3.1	U	
78-59-1	ISOPHORONE	1	10	10	3.1	U	
88-75-5	2-NITROPHENOL	1	10	10	3.1	U	
105-67-9	2,4-DIMETHYLPHENOL	1	10	10	3.1	U	
111-91-1	BIS(2-CHLOROETHOXY)METHANE	1	10	10	3.1	U	
120-83-2	2,4-DICHLOROPHENOL	1	10	10	3.1	U	
65-85-0	BENZOIC ACID	1	52	52	41	U	
120-82-1	1,2,4-TRICHLOROBENZENE	1	10	10	3.1	U	
91-20-3	NAPHTHALENE	1	10	10	3.1	U	

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID: R-61 Sc 1-11-15-SVOC
Lab ID: 1111251-2

Analysis ReqCode: 116

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 15-Nov-11
Date Extracted: 21-Nov-11
Date Analyzed: 06-Dec-11
Prep Method: SW3520 Rev C

Prep Batch: EX111121-4
QCBatchID: EX111121-4-1
Run ID: SV111206-1
Cleanup: NONE
Basis: As Received
File Name: N3832

Sample Aliquot: 960 ml
Final Volume: 1 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
106-47-8	4-CHLOROANILINE	1	10	10	3.1	U	
87-68-3	HEXACHLOROBUTADIENE	1	10	10	3.1	U	
59-50-7	4-CHLORO-3-METHYLPHENOL	1	10	10	3.1	U	
91-57-6	2-METHYLNAPHTHALENE	1	10	10	3.1	U	
77-47-4	HEXACHLOROCYCLOPENTADIENE	1	10	10	3.1	U	
88-06-2	2,4,6-TRICHLOROPHENOL	1	10	10	3.1	U	
95-95-4	2,4,5-TRICHLOROPHENOL	1	10	10	3.1	U	
91-58-7	2-CHLORONAPHTHALENE	1	10	10	3.1	U	
88-74-4	2-NITROANILINE	1	21	21	6.2	U	
131-11-3	DIMETHYL PHTHALATE	1	10	10	3.1	U	
606-20-2	2,6-DINITROTOLUENE	1	10	10	3.1	U	
208-96-8	ACENAPHTHYLENE	1	10	10	3.1	U	
99-09-2	3-NITROANILINE	1	21	21	6.2	U	
83-32-9	ACENAPHTHENE	1	10	10	3.1	U	
51-28-5	2,4-DINITROPHENOL	1	21	21	6.2	U	
100-02-7	4-NITROPHENOL	1	21	21	6.2	U	
132-64-9	DIBENZOFURAN	1	10	10	3.1	U	
121-14-2	2,4-DINITROTOLUENE	1	10	10	3.1	U	
58-90-2	2,3,4,6-TETRACHLOROPHENOL	1	10	10	3.1	U	
84-66-2	DIETHYL PHTHALATE	1	10	10	3.1	U	
86-73-7	FLUORENE	1	10	10	3.1	U	
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	1	10	10	3.1	U	
100-01-6	4-NITROANILINE	1	21	21	6.2	U	
103-33-3	AZOBENZENE	1	10	10	3.1	U	
534-52-1	4,6-DINITRO-2-METHYLPHENOL	1	21	21	6.2	U	
101-55-3	4-BROMOPHENYL PHENYL ETHER	1	10	10	3.1	U	

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID: R-61 Sc 1-11-15-SVOC
Lab ID: 1111251-2

Analysis ReqCode: 116

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 15-Nov-11
Date Extracted: 21-Nov-11
Date Analyzed: 06-Dec-11
Prep Method: SW3520 Rev C

Prep Batch: EX111121-4
QCBatchID: EX111121-4-1
Run ID: SV111206-1
Cleanup: NONE
Basis: As Received
File Name: N3832

Sample Aliquot: 960 ml
Final Volume: 1 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
118-74-1	HEXACHLOROBENZENE	1	10	10	3.1	U	
87-86-5	PENTACHLOROPHENOL	1	21	21	6.2	U	
85-01-8	PHENANTHRENE	1	10	10	3.1	U	
120-12-7	ANTHRACENE	1	10	10	3.1	U	
84-74-2	DI-N-BUTYL PHTHALATE	1	10	10	3.1	U	
206-44-0	FLUORANTHENE	1	10	10	3.1	U	
92-87-5	BENZIDINE	1	10	10	40	U	
129-00-0	PYRENE	1	10	10	3.1	U	
85-68-7	BUTYL BENZYL PHTHALATE	1	10	10	3.1	U	
56-55-3	BENZO(A)ANTHRACENE	1	10	10	3.1	U	
91-94-1	3,3'-DICHLOROBENZIDINE	1	10	10	3.1	U	
218-01-9	CHRYSENE	1	10	10	3.1	U	
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	1	10	10	3.1	U	
117-84-0	DI-N-OCTYL PHTHALATE	1	10	10	3.1	U	
205-99-2	BENZO(B)FLUORANTHENE	1	10	10	3.1	U	
207-08-9	BENZO(K)FLUORANTHENE	1	10	10	3.1	U	
50-32-8	BENZO(A)PYRENE	1	10	10	3.1	U	
193-39-5	INDENO(1,2,3-CD)PYRENE	1	10	10	3.1	U	
53-70-3	DIBENZO(A,H)ANTHRACENE	1	10	10	3.1	U	
191-24-2	BENZO(G,H,I)PERYLENE	1	10	10	3.1	U	
1912-24-9	ATRAZINE	1	10	10		U	
88-85-7	DINOSEB	1	10	10		U	
924-16-3	N-NITROSODI-N-BUTYLAMINE	1	10	10		U	
55-18-5	N-NITROSODIETHYLAMINE	1	10	10		U	
86-30-6	N-NITROSODIPHENYLAMINE	1	10	10	3.1	U	
930-55-2	N-NITROSOPYRROLIDINE	1	10	10		U	

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID: R-61 Sc 1-11-15-SVOC
Lab ID: 1111251-2

Analysis ReqCode: 116

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 15-Nov-11
Date Extracted: 21-Nov-11
Date Analyzed: 06-Dec-11
Prep Method: SW3520 Rev C

Prep Batch: EX111121-4
QCBatchID: EX111121-4-1
Run ID: SV111206-1
Cleanup: NONE
Basis: As Received
File Name: N3832

Sample Aliquot: 960 ml
Final Volume: 1 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
608-93-5	PENTACHLOROBENZENE	1	10	10		U	
95-94-3	1,2,4,5-TETRACHLOROBENZENE	1	10	10		U	
90-12-0	1-METHYLNAPHTHALENE	1	10	10	3.1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
118-79-6	2,4,6-TRIBROMOPHENOL	86.8	*	78.1	111	23 - 100
321-60-8	2-FLUOROBIPHENYL	49.7		52.1	95	21 - 106
367-12-4	2-FLUOROPHENOL	61.1		78.1	78	21 - 100
4165-60-0	NITROBENZENE-D5	54.4		52.1	104	34 - 111
4165-62-2	PHENOL-D5	64.1		78.1	82	15 - 104
1718-51-0	TERPHENYL-D14	40.6		52.1	78	33 - 111

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID: R-61 Sc 1-11-15-SVOC
Lab ID: 1111251-2

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 15-Nov-11
Date Extracted: 21-Nov-11
Date Analyzed: 06-Dec-11

Prep Batch: EX111121-4
QCBatchID: EX111121-4-2
Run ID: SV111206-1
Cleanup: NONE
Basis: As Received

Sample Aliquot: 960 ml
Final Volume: 1 ml
Clean DF: 1
File Name: N3832

CASNO	Retention Time	Target Analyte	Dilution Factor	Result	Units	Qualifier
	2.87	OXYGENATED HYDROCARBON1	1	48	UG/L	J
	3.29	4-METHYL-3-PENTEN-2-ONE	1	19	UG/L	J
	3.78	OXYGENATED HYDROCARBON2	1	15	UG/L	J
123-42-2	4.03	4-HYDROXY-4-METHYL-2-PENTANONE	1	1800	UG/L	J
	4.62	OXYGENATED HYDROCARBON3	1	4.2	UG/L	J
107-41-5	4.89	HEXYLENE GLYCOL	1	25	UG/L	J
	5.25	OXYGENATED HYDROCARBON4	1	6.8	UG/L	J
	5.33	OXYGENATED HYDROCARBON5	1	5.2	UG/L	J
	6.42	OXYGENATED HYDROCARBON6	1	7.4	UG/L	J
	7.57	UNKNOWN1	1	6.4	UG/L	J

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID: SWR61PADBASIN
Lab ID: 1111251-3

Analysis ReqCode: 115

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: 15-Nov-11
Date Extracted: 28-Nov-11
Date Analyzed: 01-Dec-11
Prep Method: SW3540 Rev C

Prep Batch: EX111128-4
QCBatchID: EX111128-4-1
Run ID: SV111201-4
Cleanup: NONE
Basis: As Received
File Name: N3821

Sample Aliquot: 10.1 g
Final Volume: 7 ml
Result Units: UG/KG
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
123-91-1	1,4-DIOXANE	1	6900	6900	750	U	
110-86-1	PYRIDINE	1	6900	6900	2100	U	
62-75-9	N-NITROSODIMETHYLAMINE	1	6900	6900	940	U	
123-91-1	1,4-DIOXANE	1	6900	6900	750	U	
62-53-3	ANILINE	1	6900	6900	2100	U	
108-95-2	PHENOL	1	6900	6900	2100	U	
111-44-4	BIS(2-CHLOROETHYL)ETHER	1	6900	6900	2100	U	
95-57-8	2-CHLOROPHENOL	1	6900	6900	2100	U	
541-73-1	1,3-DICHLOROBENZENE	1	6900	6900	2100	U	
106-46-7	1,4-DICHLOROBENZENE	1	6900	6900	2100	U	
95-50-1	1,2-DICHLOROBENZENE	1	6900	6900	2100	U	
100-51-6	BENZYL ALCOHOL	1	6900	6900	2100	U	
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	1	6900	6900	2100	U	
95-48-7	2-METHYLPHENOL	1	6900	6900	2100	U	
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	1	6900	6900	2100	U	
108-39-4	3+4-METHYLPHENOL	1	6900	6900	2100	U	
67-72-1	HEXACHLOROETHANE	1	6900	6900	2100	U	
98-95-3	NITROBENZENE	1	6900	6900	2100	U	
78-59-1	ISOPHORONE	1	6900	6900	2100	U	
88-75-5	2-NITROPHENOL	1	6900	6900	2100	U	
105-67-9	2,4-DIMETHYLPHENOL	1	6900	6900	2100	U	
111-91-1	BIS(2-CHLOROETHOXY)METHANE	1	6900	6900	2100	U	
120-83-2	2,4-DICHLOROPHENOL	1	6900	6900	2100	U	
65-85-0	BENZOIC ACID	1	35000	35000	10000	U	
120-82-1	1,2,4-TRICHLOROBENZENE	1	6900	6900	2100	U	
91-20-3	NAPHTHALENE	1	6900	6900	2100	U	

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID: SWR61PADBASIN
Lab ID: 1111251-3

Analysis ReqCode: 116

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: 15-Nov-11
Date Extracted: 28-Nov-11
Date Analyzed: 01-Dec-11
Prep Method: SW3540 Rev C

Prep Batch: EX111128-4
QCBatchID: EX111128-4-2
Run ID: SV111201-4
Cleanup: NONE
Basis: As Received
File Name: N3821

Sample Aliquot: 10.1 g
Final Volume: 7 ml
Result Units: UG/KG
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
106-47-8	4-CHLOROANILINE	1	6900	6900	2100	U	
87-68-3	HEXACHLOROBUTADIENE	1	6900	6900	2100	U	
59-50-7	4-CHLORO-3-METHYLPHENOL	1	6900	6900	2100	U	
91-57-6	2-METHYLNAPHTHALENE	1	6900	6900	2100	U	
77-47-4	HEXACHLOROCYCLOPENTADIENE	1	6900	6900	2100	U	
88-06-2	2,4,6-TRICHLOROPHENOL	1	6900	6900	2100	U	
95-95-4	2,4,5-TRICHLOROPHENOL	1	6900	6900	2100	U	
91-58-7	2-CHLORONAPHTHALENE	1	6900	6900	2100	U	
88-74-4	2-NITROANILINE	1	14000	14000	4200	U	
131-11-3	DIMETHYL PHTHALATE	1	6900	6900	2100	U	
606-20-2	2,6-DINITROTOLUENE	1	6900	6900	2100	U	
208-96-8	ACENAPHTHYLENE	1	6900	6900	2100	U	
99-09-2	3-NITROANILINE	1	14000	14000	4200	U	
83-32-9	ACENAPHTHENE	1	6900	6900	2100	U	
51-28-5	2,4-DINITROPHENOL	1	14000	14000	4200	U	
100-02-7	4-NITROPHENOL	1	14000	14000	4200	U	
132-64-9	DIBENZOFURAN	1	6900	6900	2100	U	
121-14-2	2,4-DINITROTOLUENE	1	6900	6900	2100	U	
58-90-2	2,3,4,6-TETRACHLOROPHENOL	1	6900	6900	2100	U	
84-66-2	DIETHYL PHTHALATE	1	6900	6900	2100	U	
86-73-7	FLUORENE	1	6900	6900	2100	U	
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	1	6900	6900	2100	U	
100-01-6	4-NITROANILINE	1	14000	14000	4200	U	
103-33-3	AZOBENZENE	1	6900	6900	2100	U	
534-52-1	4,6-DINITRO-2-METHYLPHENOL	1	14000	14000	4200	U	
101-55-3	4-BROMOPHENYL PHENYL ETHER	1	6900	6900	2100	U	

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID: SWR61PADBASIN
Lab ID: 1111251-3

Analysis ReqCode: 116

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: 15-Nov-11
Date Extracted: 28-Nov-11
Date Analyzed: 01-Dec-11
Prep Method: SW3540 Rev C

Prep Batch: EX111128-4
QCBatchID: EX111128-4-2
Run ID: SV111201-4
Cleanup: NONE
Basis: As Received
File Name: N3821

Sample Aliquot: 10.1 g
Final Volume: 7 ml
Result Units: UG/KG
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
118-74-1	HEXACHLOROBENZENE	1	6900	6900	2100	U	
87-86-5	PENTACHLOROPHENOL	1	14000	14000	4200	U	
85-01-8	PHENANTHRENE	1	6900	6900	2100	U	
120-12-7	ANTHRACENE	1	6900	6900	2100	U	
84-74-2	DI-N-BUTYL PHTHALATE	1	2200	6900	2100	J	
206-44-0	FLUORANTHENE	1	6900	6900	2100	U	
92-87-5	BENZIDINE	1	6900	6900	1600	U	
129-00-0	PYRENE	1	6900	6900	2100	U	
85-68-7	BUTYL BENZYL PHTHALATE	1	6900	6900	2100	U	
56-55-3	BENZO(A)ANTHRACENE	1	6900	6900	2100	U	
91-94-1	3,3'-DICHLOROBENZIDINE	1	6900	6900	2100	U	
218-01-9	CHRYSENE	1	6900	6900	2100	U	
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	1	22000	6900	2100		
117-84-0	DI-N-OCTYL PHTHALATE	1	6900	6900	2100	U	
205-99-2	BENZO(B)FLUORANTHENE	1	6900	6900	2100	U	
207-08-9	BENZO(K)FLUORANTHENE	1	6900	6900	2100	U	
50-32-8	BENZO(A)PYRENE	1	6900	6900	2100	U	
193-39-5	INDENO(1,2,3-CD)PYRENE	1	6900	6900	2100	U	
53-70-3	DIBENZO(A,H)ANTHRACENE	1	6900	6900	2100	U	
191-24-2	BENZO(G,H,I)PERYLENE	1	6900	6900	2100	U	
1912-24-9	ATRAZINE	1	6900	6900	6900	U	
88-85-7	DINOSEB	1	6900	6900	6900	U	
924-16-3	N-NITROSODI-N-BUTYLAMINE	1	6900	6900	6900	U	
55-18-5	N-NITROSODIETHYLAMINE	1	6900	6900	6900	U	
86-30-6	N-NITROSODIPHENYLAMINE	1	6900	6900	2100	U	
930-55-2	N-NITROSOPYRROLIDINE	1	6900	6900	6900	U	

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID: SWR61PADBASIN
Lab ID: 1111251-3

Analysis ReqCode: 116

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: 15-Nov-11
Date Extracted: 28-Nov-11
Date Analyzed: 01-Dec-11
Prep Method: SW3540 Rev C

Prep Batch: EX111128-4
QCBatchID: EX111128-4-2
Run ID: SV111201-4
Cleanup: NONE
Basis: As Received
File Name: N3821

Sample Aliquot: 10.1 g
Final Volume: 7 ml
Result Units: UG/KG
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
608-93-5	PENTACHLOROBENZENE	1	6900	6900		U	
95-94-3	1,2,4,5-TETRACHLOROBENZENE	1	6900	6900	6900	U	
90-12-0	1-METHYLNAPHTHALENE	1	6900	6900	2100	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
118-79-6	2,4,6-TRIBROMOPHENOL	3060		7430	41	33 - 107
321-60-8	2-FLUOROBIPHENYL	3960		4950	80	41 - 106
367-12-4	2-FLUOROPHENOL	5560		7430	75	32 - 98
4165-60-0	NITROBENZENE-D5	3650		4950	74	28 - 113
4165-62-2	PHENOL-D5	4970		7430	67	38 - 98
1718-51-0	TERPHENYL-D14	2750		4950	56	25 - 147

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID: SWR61PADBASIN
Lab ID: 1111251-3

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: 15-Nov-11
Date Extracted: 28-Nov-11
Date Analyzed: 01-Dec-11

Prep Batch: EX111128-4
QCBatchID: EX111128-4-2
Run ID: SV111201-4
Cleanup: NONE
Basis: As Received

Sample Aliquot: 10.1 g
Final Volume: 7 ml
Clean DF: 1
File Name: N3821

CASNO	Retention Time	Target Analyte	Dilution Factor	Result	Units	Qualifier
71-41-0	2.89	1-PENTANOL1	1	10000	UG/KG	J
66-25-1	3.41	HEXANAL	1	530000	UG/KG	J
111-71-7	4.69	HEPTANAL	1	56000	UG/KG	J
	5.74	UNSATURATED HYDROCARBON1	1	11000	UG/KG	J
	6.16	OXYGENATED HYDROCARBON1	1	68000	UG/KG	J
124-19-6	6.42	NONANAL	1	200000	UG/KG	J
124-07-2	6.88	OCTANOIC ACID	1	85000	UG/KG	J
	6.98	OXYGENATED HYDROCARBON2	1	5800	UG/KG	J
	7.12	UNSATURATED HYDROCARBON2	1	6500	UG/KG	J
	7.26	UNSATURATED HYDROCARBON3	1	34000	UG/KG	J
	7.37	OXYGENATED HYDROCARBON3	1	190000	UG/KG	J
112-44-7	7.59	UNDECANAL	1	12000	UG/KG	J
2363-88-4	7.67	2,4-DECADIENAL	1	16000	UG/KG	J
	7.80	UNKNOWN1	1	52000	UG/KG	J
	7.90	OXYGENATED HYDROCARBON4	1	260000	UG/KG	J
	8.04	UNSATURATED HYDROCARBON4	1	59000	UG/KG	J
	8.09	UNSATURATED HYDROCARBON5	1	73000	UG/KG	J
	8.83	UNSATURATED HYDROCARBON6	1	23000	UG/KG	J
	9.68	OXYGENATED HYDROCARBON5	1	25000	UG/KG	J
	9.72	OXYGENATED HYDROCARBON6	1	28000	UG/KG	J

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111121-4LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/21/2011
Date Analyzed: 12/06/2011
Prep Method: SW3520C

Prep Batch: EX111121-4
QCBatchID: EX111121-4-2
Run ID: SV111206-1
Cleanup: NONE
Basis: N/A
File Name: N3830

Sample Aliquot: 1000 ml
Final Volume: 1 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
123-91-1	1,4-DIOXANE	59.9	61.3	10		102	30 - 130%
110-86-1	PYRIDINE	60	36.6	10		61	10 - 108%
62-75-9	N-NITROSODIMETHYLAMINE	60	56.3	10		94	26 - 110%
123-91-1	1,4-DIOXANE	59.9	61.3	10		102	30 - 130%
62-53-3	ANILINE	60	47	10		78	25 - 125%
108-95-2	PHENOL	60	49.1	10		82	49 - 101%
111-44-4	BIS(2-CHLOROETHYL)ETHER	60	48.4	10		81	37 - 110%
95-57-8	2-CHLOROPHENOL	60	51.1	10		85	37 - 106%
541-73-1	1,3-DICHLOROBENZENE	60	43	10		72	32 - 98%
106-46-7	1,4-DICHLOROBENZENE	60	43.9	10		73	32 - 98%
95-50-1	1,2-DICHLOROBENZENE	60	44.2	10		74	33 - 102%
100-51-6	BENZYL ALCOHOL	60	56.5	10		94	30 - 112%
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	60	63.5	10		106	26 - 131%
95-48-7	2-METHYLPHENOL	60	51.7	10		86	38 - 109%
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	60	62.6	10		104	34 - 128%
108-39-4	3+4-METHYLPHENOL	60	54.1	10		90	32 - 110%
67-72-1	HEXACHLOROETHANE	60	45.4	10		76	28 - 94%
98-95-3	NITROBENZENE	60	45.6	10		76	44 - 109%
78-59-1	ISOPHORONE	60	58.7	10		98	50 - 112%
88-75-5	2-NITROPHENOL	60	55.3	10		92	39 - 113%
105-67-9	2,4-DIMETHYLPHENOL	60	37.7	10		63	28 - 109%
111-91-1	BIS(2-CHLOROETHOXY)METHANE	60	52.3	10		87	46 - 107%
120-83-2	2,4-DICHLOROPHENOL	60	54.1	10		90	48 - 105%
65-85-0	BENZOIC ACID	100	89.3	50		89	10 - 125%
120-82-1	1,2,4-TRICHLOROBENZENE	60	49	10		82	37 - 107%
91-20-3	NAPHTHALENE	60	51.2	10		85	39 - 102%

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111121-4LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/21/2011
Date Analyzed: 12/06/2011
Prep Method: SW3520C

Prep Batch: EX111121-4
QCBatchID: EX111121-4-2
Run ID: SV111206-1
Cleanup: NONE
Basis: N/A
File Name: N3830

Sample Aliquot: 1000 ml
Final Volume: 1 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
106-47-8	4-CHLOROANILINE	60	52.1	10		87	15 - 109%
87-68-3	HEXACHLOROBUTADIENE	60	47.8	10		80	27 - 103%
59-50-7	4-CHLORO-3-METHYLPHENOL	60	58.3	10		97	47 - 111%
91-57-6	2-METHYLNAPHTHALENE	60	53.3	10		89	46 - 104%
77-47-4	HEXACHLOROCYCLOPENTADIENE	60	9.32	10	J	16	10 - 125%
88-06-2	2,4,6-TRICHLOROPHENOL	60	61.2	10		102	49 - 113%
95-95-4	2,4,5-TRICHLOROPHENOL	60	59.2	10		99	49 - 111%
91-58-7	2-CHLORONAPHTHALENE	60	51.6	10		86	36 - 137%
88-74-4	2-NITROANILINE	60	65.9	20		110	48 - 115%
131-11-3	DIMETHYL PHTHALATE	60	55	10		92	25 - 127%
606-20-2	2,6-DINITROTOLUENE	60	53.9	10		90	49 - 117%
208-96-8	ACENAPHTHYLENE	60	55.8	10		93	50 - 107%
99-09-2	3-NITROANILINE	60	54.4	20		91	19 - 126%
83-32-9	ACENAPHTHENE	60	58	10		97	47 - 108%
51-28-5	2,4-DINITROPHENOL	60	68.8	20		115	14 - 138%
100-02-7	4-NITROPHENOL	60	60.9	20		101	21 - 119%
132-64-9	DIBENZOFURAN	60	56.4	10		94	54 - 107%
121-14-2	2,4-DINITROTOLUENE	60	57.9	10		96	51 - 118%
58-90-2	2,3,4,6-TETRACHLOROPHENOL	100	95.1	10		95	23 - 112%
84-66-2	DIETHYL PHTHALATE	60	61.5	10		103	41 - 118%
86-73-7	FLUORENE	60	60.8	10		101	50 - 112%
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	60	59.3	10		99	50 - 111%
100-01-6	4-NITROANILINE	60	64.1	20		107	36 - 118%
103-33-3	AZOBENZENE	60	61	10		102	21 - 137%
534-52-1	4,6-DINITRO-2-METHYLPHENOL	60	58.6	20		98	40 - 130%
101-55-3	4-BROMOPHENYL PHENYL ETHER	60	53.3	10		89	52 - 113%
118-74-1	HEXACHLOROBENZENE	60	54.2	10		90	52 - 112%

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111121-4LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/21/2011
Date Analyzed: 12/06/2011
Prep Method: SW3520C

Prep Batch: EX111121-4
QCBatchID: EX111121-4-2
Run ID: SV111206-1
Cleanup: NONE
Basis: N/A
File Name: N3830

Sample Aliquot: 1000 ml
Final Volume: 1 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
87-86-5	PENTACHLOROPHENOL	60	50.5	20		84	38 - 117%
85-01-8	PHENANTHRENE	60	56.5	10		94	51 - 117%
120-12-7	ANTHRACENE	60	55.8	10		93	54 - 112%
84-74-2	DI-N-BUTYL PHTHALATE	60	56.8	10		95	54 - 116%
206-44-0	FLUORANTHENE	60	57.4	10		96	54 - 116%
92-87-5	BENZIDINE	100	14.1	10	J*	14	30 - 130%
129-00-0	PYRENE	60	53.9	10		90	49 - 128%
85-68-7	BUTYL BENZYL PHTHALATE	60	58.9	10		98	46 - 116%
56-55-3	BENZO(A)ANTHRACENE	60	54.2	10		90	56 - 109%
91-94-1	3,3'-DICHLOROBENZIDINE	60	41.8	10		70	19 - 111%
218-01-9	CHRYSENE	60	53.6	10		89	55 - 109%
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	60	63.8	10		106	42 - 126%
117-84-0	DI-N-OCTYL PHTHALATE	60	64.9	10		108	37 - 137%
205-99-2	BENZO(B)FLUORANTHENE	60	56.5	10		94	45 - 118%
207-08-9	BENZO(K)FLUORANTHENE	60	58	10		97	45 - 124%
50-32-8	BENZO(A)PYRENE	60	46.8	10		78	53 - 110%
193-39-5	INDENO(1,2,3-CD)PYRENE	60	45.7	10		76	43 - 125%
53-70-3	DIBENZO(A,H)ANTHRACENE	60	47.6	10		79	42 - 127%
191-24-2	BENZO(G,H,I)PERYLENE	60	44.3	10		74	38 - 123%
1912-24-9	ATRAZINE	60	56.5	10		94	30 - 130%
86-30-6	N-NITROSODIPHENYLAMINE	60	46.5	10		78	30 - 130%
90-12-0	1-METHYLNAPHTHALENE	60	53.9	10		90	30 - 130%

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111121-4LCSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/21/2011
Date Analyzed: 12/06/2011
Prep Method: SW3520C

Prep Batch: EX111121-4
QCBatchID: EX111121-4-2
Run ID: SV111206-1
Cleanup: NONE
Basis: N/A
File Name: N3831

Sample Aliquot: 1000 ml
Final Volume: 1 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
123-91-1	1,4-DIOXANE	59.9	61.6	10		103	50	1
110-86-1	PYRIDINE	60	36.3	10		61	20	1
62-75-9	N-NITROSODIMETHYLAMINE	60	58.2	10		97	20	3
123-91-1	1,4-DIOXANE	59.9	61.6	10		103	20	1
62-53-3	ANILINE	60	46.6	10		78	20	1
108-95-2	PHENOL	60	49.1	10		82	20	0
111-44-4	BIS(2-CHLOROETHYL)ETHER	60	49	10		82	20	1
95-57-8	2-CHLOROPHENOL	60	50.9	10		85	20	0
541-73-1	1,3-DICHLOROBENZENE	60	43.5	10		73	20	1
106-46-7	1,4-DICHLOROBENZENE	60	44.8	10		75	20	2
95-50-1	1,2-DICHLOROBENZENE	60	44.3	10		74	20	0
100-51-6	BENZYL ALCOHOL	60	57.3	10		96	20	1
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	60	62.9	10		105	20	1
95-48-7	2-METHYLPHENOL	60	52.2	10		87	20	1
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	60	63.8	10		106	20	2
108-39-4	3+4-METHYLPHENOL	60	54	10		90	20	0
67-72-1	HEXACHLOROETHANE	60	46.5	10		78	20	2
98-95-3	NITROBENZENE	60	45.9	10		77	20	1
78-59-1	ISOPHORONE	60	59.1	10		99	20	1
88-75-5	2-NITROPHENOL	60	55.9	10		93	20	1
105-67-9	2,4-DIMETHYLPHENOL	60	39.2	10		65	20	4
111-91-1	BIS(2-CHLOROETHOXY)METHANE	60	53.3	10		89	20	2
120-83-2	2,4-DICHLOROPHENOL	60	54.2	10		90	20	0
65-85-0	BENZOIC ACID	100	82.8	50		83	20	8
120-82-1	1,2,4-TRICHLOROBENZENE	60	49.1	10		82	20	0
91-20-3	NAPHTHALENE	60	50.8	10		85	20	1
106-47-8	4-CHLOROANILINE	60	52.4	10		87	20	1

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111121-4LCSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/21/2011
Date Analyzed: 12/06/2011
Prep Method: SW3520C

Prep Batch: EX111121-4
QCBatchID: EX111121-4-2
Run ID: SV111206-1
Cleanup: NONE
Basis: N/A
File Name: N3831

Sample Aliquot: 1000 ml
Final Volume: 1 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
87-68-3	HEXACHLOROBUTADIENE	60	48.3	10		80	20	1
59-50-7	4-CHLORO-3-METHYLPHENOL	60	60.3	10		101	20	3
91-57-6	2-METHYLNAPHTHALENE	60	53.9	10		90	20	1
77-47-4	HEXACHLOROCYCLOPENTADIENE	60	10	10		17	20	7
88-06-2	2,4,6-TRICHLOROPHENOL	60	61	10		102	20	0
95-95-4	2,4,5-TRICHLOROPHENOL	60	59.7	10		100	20	1
91-58-7	2-CHLORONAPHTHALENE	60	51.2	10		85	20	1
88-74-4	2-NITROANILINE	60	66.5	20		111	20	1
131-11-3	DIMETHYL PHTHALATE	60	56.7	10		94	20	3
606-20-2	2,6-DINITROTOLUENE	60	55.1	10		92	20	2
208-96-8	ACENAPHTHYLENE	60	56.8	10		95	20	2
99-09-2	3-NITROANILINE	60	54.9	20		91	20	1
83-32-9	ACENAPHTHENE	60	58.8	10		98	20	1
51-28-5	2,4-DINITROPHENOL	60	67.4	20		112	20	2
100-02-7	4-NITROPHENOL	60	60.7	20		101	20	0
132-64-9	DIBENZOFURAN	60	57.6	10		96	20	2
121-14-2	2,4-DINITROTOLUENE	60	58.3	10		97	20	1
58-90-2	2,3,4,6-TETRACHLOROPHENOL	100	94.2	10		94	20	1
84-66-2	DIETHYL PHTHALATE	60	61.5	10		102	20	0
86-73-7	FLUORENE	60	61.7	10		103	20	2
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	60	60.1	10		100	20	1
100-01-6	4-NITROANILINE	60	61.9	20		103	20	4
103-33-3	AZOBENZENE	60	61.2	10		102	20	0
534-52-1	4,6-DINITRO-2-METHYLPHENOL	60	55.6	20		93	20	5
101-55-3	4-BROMOPHENYL PHENYL ETHER	60	53.4	10		89	20	0
118-74-1	HEXACHLOROBENZENE	60	54	10		90	20	0
87-86-5	PENTACHLOROPHENOL	60	46.4	20		77	20	8

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111121-4LCSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/21/2011
Date Analyzed: 12/06/2011
Prep Method: SW3520C

Prep Batch: EX111121-4
QCBatchID: EX111121-4-2
Run ID: SV111206-1
Cleanup: NONE
Basis: N/A
File Name: N3831

Sample Aliquot: 1000 ml
Final Volume: 1 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
85-01-8	PHENANTHRENE	60	56.6	10		94	20	0
120-12-7	ANTHRACENE	60	56.1	10		94	20	1
84-74-2	DI-N-BUTYL PHTHALATE	60	56.6	10		94	20	0
206-44-0	FLUORANTHENE	60	56.7	10		95	20	1
92-87-5	BENZIDINE	100	14.5	10	J*	14	20	2
129-00-0	PYRENE	60	52.1	10		87	20	3
85-68-7	BUTYL BENZYL PHTHALATE	60	59.6	10		99	20	1
56-55-3	BENZO(A)ANTHRACENE	60	54.6	10		91	20	1
91-94-1	3,3'-DICHLOROBENZIDINE	60	41.6	10		69	20	0
218-01-9	CHRYSENE	60	54.4	10		91	20	1
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	60	62.3	10		104	20	2
117-84-0	DI-N-OCTYL PHTHALATE	60	67.4	10		112	20	4
205-99-2	BENZO(B)FLUORANTHENE	60	58.7	10		98	20	4
207-08-9	BENZO(K)FLUORANTHENE	60	57.4	10		96	20	1
50-32-8	BENZO(A)PYRENE	60	47.8	10		80	20	2
193-39-5	INDENO(1,2,3-CD)PYRENE	60	45.7	10		76	20	0
53-70-3	DIBENZO(A,H)ANTHRACENE	60	46.8	10		78	20	2
191-24-2	BENZO(G,H,I)PERYLENE	60	43.8	10		73	20	1
1912-24-9	ATRAZINE	60	56.8	10		95	20	1
86-30-6	N-NITROSODIPHENYLAMINE	60	48.3	10		80	20	4
90-12-0	1-METHYLNAPHTHALENE	60	53.6	10		89	20	0

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Surrogate Recovery LCS/LCSD

CASNO	Target Analyte	Spike Added	LCS % Rec.	LCS Flag	LCSD % Rec.	LCSD Flag	Control Limits
118-79-6	2,4,6-TRIBROMOPHENOL	75	104	*	105	*	23 - 100
321-60-8	2-FLUOROBIPHENYL	50	96		97		21 - 106
367-12-4	2-FLUOROPHENOL	75	79		80		21 - 100
4165-60-0	NITROBENZENE-D5	50	99		99		34 - 111
4165-62-2	PHENOL-D5	75	81		81		15 - 104
1718-51-0	TERPHENYL-D14	50	90		88		33 - 111

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111128-4LCS

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/28/2011
Date Analyzed: 12/01/2011
Prep Method: SW3540C

Prep Batch: EX111128-4
QCBatchID: EX111128-4-2
Run ID: SV111201-4
Cleanup: NONE
Basis: N/A
File Name: N3812

Sample Aliquot: 30 g
Final Volume: 1 ml
Result Units: UG/KG
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
110-86-1	PYRIDINE	2000	1660	333		83	10 - 125%
62-75-9	N-NITROSODIMETHYLAMINE	2000	2040	333		102	18 - 114%
123-91-1	1,4-DIOXANE	2000	1770	333		89	30 - 130%
62-53-3	ANILINE	2000	1460	333		73	25 - 125%
108-95-2	PHENOL	2000	1640	333		82	39 - 100%
111-44-4	BIS(2-CHLOROETHYL)ETHER	2000	1620	333		81	38 - 105%
95-57-8	2-CHLOROPHENOL	2000	1840	333		92	44 - 106%
541-73-1	1,3-DICHLOROBENZENE	2000	1800	333		90	39 - 100%
106-46-7	1,4-DICHLOROBENZENE	2000	1660	333		83	35 - 103%
95-50-1	1,2-DICHLOROBENZENE	2000	1640	333		82	45 - 97%
100-51-6	BENZYL ALCOHOL	2000	1730	333		86	19 - 123%
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	2000	1760	333		88	21 - 115%
95-48-7	2-METHYLPHENOL	2000	1620	333		81	40 - 104%
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	2000	1740	333		87	40 - 114%
108-39-4	3+4-METHYLPHENOL	2000	1670	333		84	41 - 107%
67-72-1	HEXACHLOROETHANE	2000	1740	333		87	34 - 110%
98-95-3	NITROBENZENE	2000	1280	333		64	41 - 113%
78-59-1	ISOPHORONE	2000	1730	333		86	43 - 111%
88-75-5	2-NITROPHENOL	2000	2000	333		100	42 - 111%
105-67-9	2,4-DIMETHYLPHENOL	2000	1400	333		70	32 - 103%
111-91-1	BIS(2-CHLOROETHOXY)METHANE	2000	1590	333		79	43 - 108%
120-83-2	2,4-DICHLOROPHENOL	2000	1850	333		93	45 - 110%
65-85-0	BENZOIC ACID	3330	2330	1670		70	10 - 125%
120-82-1	1,2,4-TRICHLOROBENZENE	2000	1810	333		90	44 - 111%
91-20-3	NAPHTHALENE	2000	1790	333		90	40 - 107%
106-47-8	4-CHLOROANILINE	2000	1820	333		91	25 - 125%
87-68-3	HEXACHLOROBUTADIENE	2000	1860	333		93	40 - 117%

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111128-4LCS

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/28/2011
Date Analyzed: 12/01/2011
Prep Method: SW3540C

Prep Batch: EX111128-4
QCBatchID: EX111128-4-2
Run ID: SV111201-4
Cleanup: NONE
Basis: N/A
File Name: N3812

Sample Aliquot: 30 g
Final Volume: 1 ml
Result Units: UG/KG
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
59-50-7	4-CHLORO-3-METHYLPHENOL	2000	1890	333		95	46 - 113%
91-57-6	2-METHYLNAPHTHALENE	2000	1810	333		90	47 - 107%
77-47-4	HEXACHLOROCYCLOPENTADIENE	2000	576	333		29	10 - 125%
88-06-2	2,4,6-TRICHLOROPHENOL	2000	1920	333		96	43 - 109%
95-95-4	2,4,5-TRICHLOROPHENOL	2000	1830	333		92	49 - 111%
91-58-7	2-CHLORONAPHTHALENE	2000	1710	333		85	45 - 105%
88-74-4	2-NITROANILINE	2000	1750	667		87	44 - 118%
131-11-3	DIMETHYL PHTHALATE	2000	1840	333		92	49 - 110%
606-20-2	2,6-DINITROTOLUENE	2000	1860	333		93	48 - 112%
208-96-8	ACENAPHTHYLENE	2000	1900	333		95	44 - 107%
99-09-2	3-NITROANILINE	2000	1840	667		92	27 - 110%
83-32-9	ACENAPHTHENE	2000	1890	333		95	46 - 108%
51-28-5	2,4-DINITROPHENOL	2000	2080	667		104	13 - 132%
100-02-7	4-NITROPHENOL	2000	1670	667		83	17 - 138%
132-64-9	DIBENZOFURAN	2000	1860	333		93	51 - 103%
121-14-2	2,4-DINITROTOLUENE	2000	2110	333		105	48 - 116%
58-90-2	2,3,4,6-TETRACHLOROPHENOL	3330	3160	333		95	11 - 120%
84-66-2	DIETHYL PHTHALATE	2000	2060	333		103	50 - 114%
86-73-7	FLUORENE	2000	1860	333		93	49 - 108%
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	2000	1980	333		99	47 - 112%
100-01-6	4-NITROANILINE	2000	2060	667		103	34 - 113%
103-33-3	AZOBENZENE	2000	1770	333		88	25 - 122%
534-52-1	4,6-DINITRO-2-METHYLPHENOL	2000	2100	667		105	29 - 137%
101-55-3	4-BROMOPHENYL PHENYL ETHER	2000	1840	333		92	46 - 117%
118-74-1	HEXACHLOROBENZENE	2000	1810	333		91	47 - 118%
87-86-5	PENTACHLOROPHENOL	2000	1790	667		90	25 - 119%
85-01-8	PHENANTHRENE	2000	1840	333		92	50 - 110%

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111128-4LCS

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/28/2011
Date Analyzed: 12/01/2011
Prep Method: SW3540C

Prep Batch: EX111128-4
QCBatchID: EX111128-4-2
Run ID: SV111201-4
Cleanup: NONE
Basis: N/A
File Name: N3812

Sample Aliquot: 30 g
Final Volume: 1 ml
Result Units: UG/KG
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
120-12-7	ANTHRACENE	2000	1860	333		93	53 - 107%
84-74-2	DI-N-BUTYL PHTHALATE	2000	1940	333		97	56 - 110%
206-44-0	FLUORANTHENE	2000	1890	333		94	54 - 114%
92-87-5	BENZIDINE	3330	658	333	*	20	30 - 130%
129-00-0	PYRENE	2000	2050	333		103	46 - 123%
85-68-7	BUTYL BENZYL PHTHALATE	2000	2230	333		111	49 - 123%
56-55-3	BENZO(A)ANTHRACENE	2000	1890	333		94	52 - 111%
91-94-1	3,3'-DICHLOROBENZIDINE	2000	1580	333		79	25 - 125%
218-01-9	CHRYSENE	2000	1870	333		93	53 - 112%
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	2000	2000	333		100	47 - 127%
117-84-0	DI-N-OCTYL PHTHALATE	2000	1940	333		97	41 - 132%
205-99-2	BENZO(B)FLUORANTHENE	2000	1930	333		96	45 - 114%
207-08-9	BENZO(K)FLUORANTHENE	2000	1990	333		99	45 - 123%
50-32-8	BENZO(A)PYRENE	2000	1910	333		96	50 - 111%
193-39-5	INDENO(1,2,3-CD)PYRENE	2000	1830	333		92	38 - 121%
53-70-3	DIBENZO(A,H)ANTHRACENE	2000	1820	333		91	41 - 125%
191-24-2	BENZO(G,H,I)PERYLENE	2000	1730	333		86	38 - 126%
1912-24-9	ATRAZINE	2000	2320	333		116	30 - 130%
86-30-6	N-NITROSODIPHENYLAMINE	2000	1790	333		89	30 - 130%
90-12-0	1-METHYLNAPHTHALENE	2000	1680	333		84	30 - 130%

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111128-4LCSD

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/28/2011
Date Analyzed: 12/01/2011
Prep Method: SW3540C

Prep Batch: EX111128-4
QCBatchID: EX111128-4-2
Run ID: SV111201-4
Cleanup: NONE
Basis: N/A
File Name: N3813

Sample Aliquot: 30 g
Final Volume: 1 ml
Result Units: UG/KG
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
110-86-1	PYRIDINE	2000	1530	333		76	20	8
62-75-9	N-NITROSODIMETHYLAMINE	2000	1890	333		94	20	8
123-91-1	1,4-DIOXANE	2000	1690	333		85	20	5
62-53-3	ANILINE	2000	1390	333		70	20	5
108-95-2	PHENOL	2000	1560	333		78	20	5
111-44-4	BIS(2-CHLOROETHYL)ETHER	2000	1550	333		77	20	4
95-57-8	2-CHLOROPHENOL	2000	1770	333		88	20	4
541-73-1	1,3-DICHLOROBENZENE	2000	1730	333		86	20	4
106-46-7	1,4-DICHLOROBENZENE	2000	1720	333		86	20	3
95-50-1	1,2-DICHLOROBENZENE	2000	1720	333		86	20	5
100-51-6	BENZYL ALCOHOL	2000	1800	333		90	20	4
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	2000	1860	333		93	20	6
95-48-7	2-METHYLPHENOL	2000	1710	333		86	20	6
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	2000	1750	333		88	20	1
108-39-4	3+4-METHYLPHENOL	2000	1750	333		88	20	5
67-72-1	HEXACHLOROETHANE	2000	1760	333		88	20	1
98-95-3	NITROBENZENE	2000	1360	333		68	20	6
78-59-1	ISOPHORONE	2000	1780	333		89	20	3
88-75-5	2-NITROPHENOL	2000	2090	333		105	20	4
105-67-9	2,4-DIMETHYLPHENOL	2000	1310	333		65	20	7
111-91-1	BIS(2-CHLOROETHOXY)METHANE	2000	1550	333		77	20	3
120-83-2	2,4-DICHLOROPHENOL	2000	1830	333		92	20	1
65-85-0	BENZOIC ACID	3330	2440	1670		73	20	4
120-82-1	1,2,4-TRICHLOROBENZENE	2000	1780	333		89	20	1
91-20-3	NAPHTHALENE	2000	1780	333		89	20	1
106-47-8	4-CHLOROANILINE	2000	1820	333		91	20	0
87-68-3	HEXACHLOROBUTADIENE	2000	1820	333		91	20	2

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111128-4LCSD

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/28/2011
Date Analyzed: 12/01/2011
Prep Method: SW3540C

Prep Batch: EX111128-4
QCBatchID: EX111128-4-2
Run ID: SV111201-4
Cleanup: NONE
Basis: N/A
File Name: N3813

Sample Aliquot: 30 g
Final Volume: 1 ml
Result Units: UG/KG
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
59-50-7	4-CHLORO-3-METHYLPHENOL	2000	1910	333		95	20	1
91-57-6	2-METHYLNAPHTHALENE	2000	1840	333		92	20	2
77-47-4	HEXACHLOROCYCLOPENTADIENE	2000	620	333		31	20	7
88-06-2	2,4,6-TRICHLOROPHENOL	2000	2010	333		101	20	4
95-95-4	2,4,5-TRICHLOROPHENOL	2000	1970	333		98	20	7
91-58-7	2-CHLORONAPHTHALENE	2000	1790	333		89	20	5
88-74-4	2-NITROANILINE	2000	1750	667		87	20	0
131-11-3	DIMETHYL PHTHALATE	2000	1840	333		92	20	0
606-20-2	2,6-DINITROTOLUENE	2000	1880	333		94	20	1
208-96-8	ACENAPHTHYLENE	2000	1910	333		96	20	1
99-09-2	3-NITROANILINE	2000	1920	667		96	20	4
83-32-9	ACENAPHTHENE	2000	1950	333		98	20	3
51-28-5	2,4-DINITROPHENOL	2000	2090	667		104	20	0
100-02-7	4-NITROPHENOL	2000	1670	667		83	20	0
132-64-9	DIBENZOFURAN	2000	1890	333		94	20	1
121-14-2	2,4-DINITROTOLUENE	2000	2050	333		102	20	3
58-90-2	2,3,4,6-TETRACHLOROPHENOL	3330	3020	333		91	20	4
84-66-2	DIETHYL PHTHALATE	2000	2060	333		103	20	0
86-73-7	FLUORENE	2000	1860	333		93	20	0
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	2000	1990	333		100	20	1
100-01-6	4-NITROANILINE	2000	2180	667		109	20	6
103-33-3	AZOBENZENE	2000	1730	333		86	20	2
534-52-1	4,6-DINITRO-2-METHYLPHENOL	2000	2120	667		106	20	1
101-55-3	4-BROMOPHENYL PHENYL ETHER	2000	1840	333		92	20	0
118-74-1	HEXACHLOROBENZENE	2000	1730	333		87	20	5
87-86-5	PENTACHLOROPHENOL	2000	1800	667		90	20	0
85-01-8	PHENANTHRENE	2000	1840	333		92	20	0

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: EX111128-4LCSD

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/28/2011
Date Analyzed: 12/01/2011
Prep Method: SW3540C

Prep Batch: EX111128-4
QCBatchID: EX111128-4-2
Run ID: SV111201-4
Cleanup: NONE
Basis: N/A
File Name: N3813

Sample Aliquot: 30 g
Final Volume: 1 ml
Result Units: UG/KG
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
120-12-7	ANTHRACENE	2000	1840	333		92	20	1
84-74-2	DI-N-BUTYL PHTHALATE	2000	1870	333		94	20	3
206-44-0	FLUORANTHENE	2000	1790	333		89	20	5
92-87-5	BENZIDINE	3330	702	333	*	21	20	6
129-00-0	PYRENE	2000	1930	333		97	20	6
85-68-7	BUTYL BENZYL PHTHALATE	2000	2090	333		105	20	6
56-55-3	BENZO(A)ANTHRACENE	2000	1940	333		97	20	3
91-94-1	3,3'-DICHLOROBENZIDINE	2000	1620	333		81	20	2
218-01-9	CHRYSENE	2000	1940	333		97	20	4
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	2000	2070	333		104	20	4
117-84-0	DI-N-OCTYL PHTHALATE	2000	1790	333		89	20	8
205-99-2	BENZO(B)FLUORANTHENE	2000	2040	333		102	20	6
207-08-9	BENZO(K)FLUORANTHENE	2000	2070	333		104	20	4
50-32-8	BENZO(A)PYRENE	2000	1960	333		98	20	3
193-39-5	INDENO(1,2,3-CD)PYRENE	2000	1770	333		89	20	4
53-70-3	DIBENZO(A,H)ANTHRACENE	2000	1740	333		87	20	5
191-24-2	BENZO(G,H,I)PERYLENE	2000	1710	333		86	20	1
1912-24-9	ATRAZINE	2000	2200	333		110	20	5
86-30-6	N-NITROSODIPHENYLAMINE	2000	1770	333		89	20	1
90-12-0	1-METHYLNAPHTHALENE	2000	1760	333		88	20	5

Data Package ID: *SV1111251-1*

GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Surrogate Recovery LCS/LCSD

CASNO	Target Analyte	Spike Added	LCS % Rec.	LCS Flag	LCSD % Rec.	LCSD Flag	Control Limits
118-79-6	2,4,6-TRIBROMOPHENOL	2500	98		94		33 - 107
321-60-8	2-FLUOROBIPHENYL	1670	90		94		41 - 106
367-12-4	2-FLUOROPHENOL	2500	86		84		32 - 98
4165-60-0	NITROBENZENE-D5	1670	84		88		28 - 113
4165-62-2	PHENOL-D5	2500	77		72		38 - 98
1718-51-0	TERPHENYL-D14	1670	106		99		25 - 147

Data Package ID: *SV1111251-1*

ALS Environmental

GC/MS Volatiles

Case Narrative

New Mexico Environmental Department OB

LMW08 – 813-11.15.11(HWB Proj)PAR-all-files

Work Order Number: 1111251

1. This report consists of 1 water sample and 1 solid sample. The samples were received cool and intact by ALS on 11/17/11.

   The aqueous sample was free of headspace prior to analysis.

   The aqueous sample had a pH < 2 at the time of analysis.

2. These samples were prepared according to SW-846, 3rd Edition procedures.

   The water sample was prepared using purge and trap procedures based on Method 5030C.

   The solid sample was prepared using a heated purge based on Method 5035A.

3. The samples were analyzed using GC/MS with an RTX-624, RTX-VMS, or equivalent capillary column according to SOP 525 Revision 15 based on SW-846 Method 8260. All positive results were quantitated against the initial calibration standards using the internal standard technique. The identification of positive results was achieved by a comparison of the retention time and mass spectrum of the sample versus the daily calibration standard.

4. All initial calibration criteria were met.

5. All initial calibrations are verified by comparing a second source standard calibration verification (ICV) against the calibration curve. All criteria for initial calibration verification were met.

6. All compounds in the continuing calibration verification had a %D of less than 20% with the exception of 1,2-dibromo-3-chloropropane which was detected low on 11/22/11 & 11/23/11. This compound was not detected in the associated samples.

7. Methylene chloride, acetone and 2-butanone are common laboratory contaminants. In order to minimize the levels of these compounds detected in the gc/ms analysis, ALS has designated its

volatile laboratory as a restricted access area. In addition, the laboratory has been equipped with a dedicated, air intake and exhaust system that operates under positive pressure in order to minimize cross contamination of these compounds. Due to fluctuations in ambient laboratory conditions, reported sample values for common laboratory contaminants may be due to lab contamination even if the compound in question is not detected in the associated method blank.

The method blanks VL111122-4MB, VL111123-4 & VL111123-4MMB had methylene chloride detected below the reporting limit. This compound was not detected in the associated samples.

8. All laboratory control sample and laboratory control sample duplicate recoveries and RPDs were within the acceptance criteria with the following exceptions:

Spiked Compound	QC Sample	Direction
Carbon Tetrachloride	VL111122-4LCS	Low
1,2-dichloroethane	VL111122-4LCS	Low
Bromodichloromethane	VL111122-4LCS	Low

Because of the large number of target analytes reported by this method, the lab allows for sporadic marginal exceedances. No further action was taken.

9. Since a sample from this order number was not the selected quality control (QC) sample, matrix specific QC results are not included in this report.

10. The samples were analyzed within the established holding time.

11. All surrogate recoveries were within acceptance criteria.

12. All internal standard recoveries were within acceptance criteria.

13. Due to matrix interferences sample 1111251-3 was analyzed at a dilution. The reporting limits have been adjusted accordingly. Further analysis at a lower dilution could not be performed due to the high level of surfactants in this sample. Attempts to screen the sample at lower dilutions had to be aborted in order to prevent damage to the instrument.

14. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in SOP 939 Revision 4.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Emily Hellickson
Organics Primary Data Reviewer

14 Dec. 11
Date

Organics Final Data Reviewer

12-14-11
Date

ALS
Data Qualifier Flags
Chromatography and Mass Spectrometry

U or ND:	This flag indicates that the compound was analyzed for but not detected.
J:	This flag indicates an estimated value. This flag is used as follows : (1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the reporting limit (RL) but greater than the method detection limit (MDL); (3) when the retention time data indicate the presence of a compound that meets the GC identification criteria, and the result is less than the RL but greater than the MDL; and (4) the reported value is estimated.
B:	This flag is used when the analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user. This flag shall be used for a tentatively identified compound (TIC) as well as for a positively identified target compound.
E:	This flag identifies compounds whose concentration exceeds the upper level of the calibration range.
A:	This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.
X:	This flag indicates that the analyte was diluted below an accurate quantitation level.
*:	This flag indicates that a spike recovery is equal to or outside the control criteria used.
+:	This flag indicates that the relative percent difference (RPD) equals or exceeds the control criteria.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1111251
Client Name: New Mexico Environment Department OB
Client Project Name: LMW08
Client Project Number: 813-11.15.11(HWB Proj)PAR-all-files
Client PO Number: 10-667-00-13453

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
R-61 Sc 1-11-15-VOC	1111251-1		WATER	15-Nov-11	9:40
R-61 Sc 1-11-15-SVOC	1111251-2		WATER	15-Nov-11	9:40
SWR61PADBASIN	1111251-3		SOLID	15-Nov-11	10:37

Chain of Custody Record

1111251

SHIP TO:

Paragon Analytics
225 Commerce Drive
Fort Collins, CO 80524
(970) 490-1511

MAIL REPORT TO:

Kim Granzow
NMED-DOE Oversight Bureau
1183 Diamond Drive Suite B
Los Alamos, New Mexico 87544
kgranzow@lanl.gov

Initials
KG
(505) 661-4008

BILL TO:

Dave Cobrain
New Mexico Environ. Dept. Hazardous Waste Bureau
2905 Rodeo Park Drive East Bldg 1
Santa Fe, NM 87505-2567
505-476-6055/505-476-6017

Project Number: 813-11 15.11(HWB Proj)PAR-~~all~~-files
(Lab Invoice Use Only)

LMW08

				DRO-Fuel Hydrocarbons; Full Range Diesel Range Organics (Line item # 163) $40	SVOCs (line item # 116) $275. Please run 1,4-dioxane analysis	VOCs (Line item # 104) $140	DRO-Fuel Hydrocarbons; Full Range Diesel Range Organics (Line item # 163) $40	SVOCs (line item # 116) $275. Please run 1,4-dioxane analysis	VOCs (Line item # 104) $140	Special Services (Line item #620) $50	Sr-90 (Line item # 336) $105	Iso-U (Line item # 314) $100	Nitrate and Nitrite (Line item #542) $15	Ammonia as N (Line item #543) $15	TKN (Line item # 544) $65	
				NF/NA	NF/NA	NF/HCl	SOLID	SOLID	SOLID		F/NaOH	F/NaOH	F/H2SO4			
			Line Item No	163	116	104	163	116	104	620	336	314	542	543	544	
			Price per Sample	$ 40.00	$ 275.00	$ 140.00	$ 40.00	$ 275.00	$ 140.00	$ 50.00	$ 105.00	$100.00	$ 15.00	$ 15.00	$ 65.00	
Lab ID Number	**NMED - Sample ID**	**Date**	**Time**													
1	**R-61 Sc 1-11-15-VOC**	**11/15/2011**	**9:40**			X				X						3-40 ml glass voa vials
2	**R-61 Sc 1-11-15-SVOC**	**11/15/2011**	**9:40**	X	X					X						2-1L glass amber
3	**SWR61PADBASIN**	**11/15/2011**	**10:37**				X	X	X							1-250 ml glass amber
			Total No. of Samples	1		1	1	1	1	2						

Date/Time	**Relinquished By:**	
11/15/11 3:30 PM		Sign
	Michael Dale	Michael Dale Print
	NMED DOE Oversight Bureau	Co./Org
Date/Time	**Received By:**	
11-17-11	C Trimble	Sign
0940	C Trimble	Print
	ALS	Co./Org

Comments: Please run 1,4-dioxane analysis

QC Level **Standard**
QC Required MS MSD Blank
Turn Around Time (TAT). **Standard**

☐ **Place "X" in box if there are less than 5 total samples for shipping costs.**

ALS Laboratory Group - Fort Collins

CONDITION OF SAMPLE UPON RECEIPT FORM

Client: NMED Workorder No: 1111251

Project Manager: LS Initials: CDT Date: 11-17-11

1	Does this project require any **special handling** in addition to standard Paragon procedures?		YES	(NO)
2	Are custody **seals** on **shipping containers** intact?	NONE	(YES)	NO
3	Are Custody seals on **sample containers** intact?	NONE	(YES)	NO
4	Is there a **COC (Chain-of-Custody) present** or other representative documents?		(YES)	NO
5	Are the **COC and bottle labels complete and legible**?		(YES)	NO
6	Is the **COC in agreement** with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		(YES)	NO
7	Were **airbills / shipping documents** present and/or removable?	DROP OFF	(YES)	NO
8	Are all **aqueous samples requiring preservation preserved correctly? (excluding volatiles)**	(N/A)	~~YES~~ CDT 11-17-11	NO
9	Are all aqueous **non-preserved samples pH 4-9**?	N/A	(YES)	NO
10	Is there **sufficient sample** for the requested analyses?		(YES)	NO
11	Were all samples placed in the **proper containers** for the requested analyses?		(YES)	NO
12	Are all samples within **holding times** for the requested analyses?		(YES)	NO
13	Were all sample containers received **intact**? (not broken or leaking, etc.)		(YES)	NO
14	Are all samples requiring **no** headspace **(VOC, GRO, RSK/MEE, Rx CN/S, radon)** headspace free? **Size of bubble**: ____ < green pea ____ > green pea	N/A	(YES)	NO
15	Do perchlorate LCMS-MS samples **have** headspace? (at least 1/3 of container required)	(N/A)	YES	NO
16	Were samples checked for and free from the presence of **residual chlorine?** (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	(N/A)	YES	NO
17	Were the samples **shipped on ice?**		(YES)	NO
18	Were cooler temperatures measured at 0.1-6.0°C? **IR gun used*:** #2 (#4)	RAD ONLY	(YES)	NO

Cooler #: 1

Temperature (°C): 5.4°

No. of custody seals on cooler: 2

DOT Survey/ Acceptance Information

External µR/hr reading: 14

Background µR/hr reading: 13

Were external µR/hr readings < two times background and within DOT acceptance criteria? **YES NO / NA** (If no, see Form 008.)

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

Solid sample appears to have been mixed with sed. No sed layer at bottom.

If applicable, was the client contacted? **YES / NO / NA** Contact: _____ Date/Time: _____

Project Manager Signature / Date: _____ 11/21/11

*IR Gun #2: Oakton, SN 29922500201-0066 *IR Gun #4: Oakton, SN 2372220101-0002

Form 201r22 xls (6/1/09)

FedEx Express **NEW Package US Airbill**

FedEx Tracking Number 8758 4918 1396

0200 Form ID No

1111251

FedEx Retrieval Copy

14

2

5.4

1 From

Date 11-16-11 Sender's FedEx Account Number

Sender's Name NMED Phone 505 661-2670

Company NMED

Address 1183 Diamond Dr, Suite B Dept./Floor/Suite/Room

City Los Alamos State NM ZIP 87544

2 Your Internal Billing Reference 813-11.15.11(HW3)

3 To

Recipient's Name Lance Steere Phone 970 490-1511

Company Paragon Analytics, Inc (ALS)

Address 225 Commerce Drive Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Use this line for the HOLD location address or for continuation of your shipping address

City Ft. Collins State Co ZIP 80524

01 ☐ HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

31 ☐ HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

06 ☐ FedEx First Overnight Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

01 ☒ FedEx Priority Overnight Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

05 ☐ FedEx Standard Overnight Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

49 ☐ NEW FedEx 2Day A.M. Second business morning.* Saturday Delivery NOT available.

03 ☐ FedEx 2Day Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

06 ☐ FedEx Envelope* 02 ☐ FedEx Pak* 03 ☐ FedEx Box 04 ☐ FedEx Tube 01 ☒ Other

6 Special Handling and Delivery Signature Options

03 ☐ **SATURDAY DELIVERY**

☒ No Signature Required Packages may be left without obtaining a signature for delivery.

10 ☐ Direct Signature Someone at recipient's address may sign for delivery. Fee applies.

34 ☐ Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

☒ No 04 ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required 06 ☐ Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

Obtain recip. Acct. No. ☐

1 ☐ Sender Acct. No. in Section 1 will be billed 2 ☒ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

[redacted] 78

Total Packages 1 Total Weight 30 lbs. [redacted] Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

612

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GC/MS Volatiles

Method SW8260_25C

Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111122-4MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 22-Nov-11
Date Analyzed: 22-Nov-11

Prep Batch: VL111122-4
QCBatchID: VL111122-4-3
Run ID: VL111122-4A
Cleanup: NONE
Basis: N/A
File Name: D35467

Sample Aliquot: 10ml
Final Volume: 10ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
75-71-8	DICHLORODIFLUOROMETHANE	1	1	1	0.33	U	
74-87-3	CHLOROMETHANE	1	1	1	0.33	U	
75-01-4	VINYL CHLORIDE	1	1	1	0.33	U	
74-83-9	BROMOMETHANE	1	1	1	0.33	U	
75-00-3	CHLOROETHANE	1	1	1	0.33	U	
75-69-4	TRICHLOROFLUOROMETHANE	1	1	1	0.33	U	
107-02-8	ACROLEIN	1	10	10	3.3	U	
75-35-4	1,1-DICHLOROETHENE	1	1	1	0.33	U	
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROET	1	1	1	0.33	U	
67-64-1	ACETONE	1	10	10	3.3	U	
74-88-4	IODOMETHANE	1	1	1	0.33	U	
75-15-0	CARBON DISULFIDE	1	1	1	0.33	U	
75-09-2	METHYLENE CHLORIDE	1	0.75	1	0.35	J	
156-60-5	TRANS-1,2-DICHLOROETHENE	1	1	1	0.33	U	
1634-04-4	METHYL TERTIARY BUTYL ETHER	1	1	1	0.42	U	
107-13-1	ACRYLONITRILE	1	10	10	3.3	U	
75-34-3	1,1-DICHLOROETHANE	1	1	1	0.33	U	
108-05-4	VINYL ACETATE	1	2	2	0.67	U	
156-59-2	CIS-1,2-DICHLOROETHENE	1	1	1	0.33	U	
78-93-3	2-BUTANONE	1	10	10	3.3	U	
74-97-5	BROMOCHLOROMETHANE	1	1	1	0.33	U	
67-66-3	CHLOROFORM	1	1	1	0.33	U	
71-55-6	1,1,1-TRICHLOROETHANE	1	1	1	0.33	U	
594-20-7	2,2-DICHLOROPROPANE	1	1	1	0.33	U	
56-23-5	CARBON TETRACHLORIDE	1	1	1	0.33	U	
563-58-6	1,1-DICHLOROPROPENE	1	1	1	0.33	U	
107-06-2	1,2-DICHLOROETHANE	1	1	1	0.33	U	
71-43-2	BENZENE	1	1	1	0.33	U	

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111122-4MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 22-Nov-11
Date Analyzed: 22-Nov-11

Prep Batch: VL111122-4
QCBatchID: VL111122-4-3
Run ID: VL111122-4A
Cleanup: NONE
Basis: N/A
File Name: D35467

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
79-01-6	TRICHLOROETHENE	1	1	1	0.33	U	
78-87-5	1,2-DICHLOROPROPANE	1	1	1	0.33	U	
74-95-3	DIBROMOMETHANE	1	1	1	0.33	U	
75-27-4	BROMODICHLOROMETHANE	1	1	1	0.33	U	
10061-01-5	CIS-1,3-DICHLOROPROPENE	1	1	1	0.33	U	
108-10-1	4-METHYL-2-PENTANONE	1	10	10	3.3	U	
108-88-3	TOLUENE	1	1	1	0.33	U	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1	1	1	0.33	U	
79-00-5	1,1,2-TRICHLOROETHANE	1	1	1	0.33	U	
591-78-6	2-HEXANONE	1	10	10	3.3	U	
127-18-4	TETRACHLOROETHENE	1	1	1	0.33	U	
142-28-9	1,3-DICHLOROPROPANE	1	1	1	0.33	U	
124-48-1	DIBROMOCHLOROMETHANE	1	1	1	0.33	U	
106-93-4	1,2-DIBROMOETHANE	1	1	1	0.33	U	
108-90-7	CHLOROBENZENE	1	1	1	0.33	U	
630-20-6	1,1,1,2-TETRACHLOROETHANE	1	1	1	0.33	U	
100-41-4	ETHYLBENZENE	1	1	1	0.33	U	
136777-61-2	M+P-XYLENE	1	1	1	0.44	U	
95-47-6	O-XYLENE	1	1	1	0.33	U	
100-42-5	STYRENE	1	1	1	0.33	U	
75-25-2	BROMOFORM	1	1	1	0.33	U	
98-82-8	ISOPROPYLBENZENE	1	1	1	0.33	U	
96-18-4	1,2,3-TRICHLOROPROPANE	1	1	1	0.33	U	
79-34-5	1,1,2,2-TETRACHLOROETHANE	1	1	1	0.34	U	
108-86-1	BROMOBENZENE	1	1	1	0.33	U	
103-65-1	N-PROPYLBENZENE	1	1	1	0.33	U	
95-49-8	2-CHLOROTOLUENE	1	1	1	0.33	U	
108-67-8	1,3,5-TRIMETHYLBENZENE	1	1	1	0.33	U	

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C
Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111122-4MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 22-Nov-11
Date Analyzed: 22-Nov-11

Prep Batch: VL111122-4
QCBatchID: VL111122-4-3
Run ID: VL111122-4A
Cleanup: NONE
Basis: N/A
File Name: D35467

Sample Aliquot: 10ml
Final Volume: 10ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
106-43-4	4-CHLOROTOLUENE	1	1	1	0.33	U	
98-06-6	TERT-BUTYLBENZENE	1	1	1	0.33	U	
95-63-6	1,2,4-TRIMETHYLBENZENE	1	1	1	0.33	U	
135-98-8	SEC-BUTYLBENZENE	1	1	1	0.33	U	
541-73-1	1,3-DICHLOROBENZENE	1	1	1	0.33	U	
99-87-6	P-ISOPROPYLTOLUENE	1	1	1	0.33	U	
106-46-7	1,4-DICHLOROBENZENE	1	1	1	0.33	U	
104-51-8	N-BUTYLBENZENE	1	1	1	0.33	U	
95-50-1	1,2-DICHLOROBENZENE	1	1	1	0.33	U	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1	2	2	0.67	U	
120-82-1	1,2,4-TRICHLOROBENZENE	1	1	1	0.33	U	
87-68-3	HEXACHLOROBUTADIENE	1	1	1	0.33	U	
91-20-3	NAPHTHALENE	1	1	1	0.33	U	
87-61-6	1,2,3-TRICHLOROBENZENE	1	1	1	0.33	U	
75-05-8	ACETONITRILE	1	50	50	17	U	
107-05-1	ALLYL CHLORIDE	1	1	1	0.33	U	
123-91-1	1,4-DIOXANE	1	200	200	67	U	
97-63-2	ETHYL METHACRYLATE	1	1	1	0.33	U	
78-83-1	ISOBUTYL ALCOHOL	1	100	100	33	U	
126-98-7	METHACRYLONITRILE	1	50	50	3.3	U	
80-62-6	METHYL METHACRYLATE	1	5	5	1.7	U	
107-12-0	PROPIONITRILE	1	10	10	3.3	U	
126-99-8	CHLOROPRENE	1	1	1	0.33	U	
60-29-7	DIETHYL ETHER	1	1	1	0.33	U	
71-36-3	N-BUTANOL	1	100	100	33	U	

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C
Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111122-4MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 22-Nov-11
Date Analyzed: 22-Nov-11

Prep Batch: VL111122-4
QCBatchID: VL111122-4-3
Run ID: VL111122-4A
Cleanup: NONE
Basis: N/A
File Name: D35467

Sample Aliquot: 10ml
Final Volume: 10ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	26.2		25	105	78 - 129
1868-53-7	DIBROMOFLUOROMETHANE	24.3		25	97	80 - 124
2037-26-5	TOLUENE-D8	25		25	100	81 - 119

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID:
Lab ID: VL111122-4MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 22-Nov-11
Date Analyzed: 22-Nov-11

Prep Batch: VL111122-4
QCBatchID: VL111122-4-3
Run ID: VL111122-4A
Cleanup: NONE
Basis: As Received

Sample Aliquot: 10 ml
Final Volume: 10 ml
Clean DF: 1
File Name: D35467

CASNO	Retention Time	Target Analyte	Dilution Factor	Result	Units	Qualifier
		NONE DETECTED	1			U

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111123-4MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 23-Nov-11
Date Analyzed: 23-Nov-11

Prep Batch: VL111123-4
QCBatchID: VL111123-4-1
Run ID: VL111123-4A
Cleanup: NONE
Basis: N/A
File Name: D35499

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
75-71-8	DICHLORODIFLUOROMETHANE	1	1	1	0.33	U	
74-87-3	CHLOROMETHANE	1	1	1	0.33	U	
75-01-4	VINYL CHLORIDE	1	1	1	0.33	U	
74-83-9	BROMOMETHANE	1	1	1	0.33	U	
75-00-3	CHLOROETHANE	1	1	1	0.33	U	
75-69-4	TRICHLOROFLUOROMETHANE	1	1	1	0.33	U	
107-02-8	ACROLEIN	1	10	10	3.3	U	
75-35-4	1,1-DICHLOROETHENE	1	1	1	0.33	U	
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROET	1	1	1	0.33	U	
67-64-1	ACETONE	1	10	10	3.3	U	
74-88-4	IODOMETHANE	1	1	1	0.33	U	
75-15-0	CARBON DISULFIDE	1	1	1	0.33	U	
75-09-2	METHYLENE CHLORIDE	1	0.36	1	0.35	J	
156-60-5	TRANS-1,2-DICHLOROETHENE	1	1	1	0.33	U	
1634-04-4	METHYL TERTIARY BUTYL ETHER	1	1	1	0.42	U	
107-13-1	ACRYLONITRILE	1	10	10	3.3	U	
75-34-3	1,1-DICHLOROETHANE	1	1	1	0.33	U	
108-05-4	VINYL ACETATE	1	2	2	0.67	U	
156-59-2	CIS-1,2-DICHLOROETHENE	1	1	1	0.33	U	
78-93-3	2-BUTANONE	1	10	10	3.3	U	
74-97-5	BROMOCHLOROMETHANE	1	1	1	0.33	U	
67-66-3	CHLOROFORM	1	1	1	0.33	U	
71-55-6	1,1,1-TRICHLOROETHANE	1	1	1	0.33	U	
594-20-7	2,2-DICHLOROPROPANE	1	1	1	0.33	U	
56-23-5	CARBON TETRACHLORIDE	1	1	1	0.33	U	
563-58-6	1,1-DICHLOROPROPENE	1	1	1	0.33	U	
107-06-2	1,2-DICHLOROETHANE	1	1	1	0.33	U	
71-43-2	BENZENE	1	1	1	0.33	U	

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C
Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111123-4MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 23-Nov-11
Date Analyzed: 23-Nov-11

Prep Batch: VL111123-4
QCBatchID: VL111123-4-1
Run ID: VL111123-4A
Cleanup: NONE
Basis: N/A
File Name: D35499

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
79-01-6	TRICHLOROETHENE	1	1	1	0.33	U	
78-87-5	1,2-DICHLOROPROPANE	1	1	1	0.33	U	
74-95-3	DIBROMOMETHANE	1	1	1	0.33	U	
75-27-4	BROMODICHLOROMETHANE	1	1	1	0.33	U	
10061-01-5	CIS-1,3-DICHLOROPROPENE	1	1	1	0.33	U	
108-10-1	4-METHYL-2-PENTANONE	1	10	10	3.3	U	
108-88-3	TOLUENE	1	1	1	0.33	U	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1	1	1	0.33	U	
79-00-5	1,1,2-TRICHLOROETHANE	1	1	1	0.33	U	
591-78-6	2-HEXANONE	1	10	10	3.3	U	
127-18-4	TETRACHLOROETHENE	1	1	1	0.33	U	
142-28-9	1,3-DICHLOROPROPANE	1	1	1	0.33	U	
124-48-1	DIBROMOCHLOROMETHANE	1	1	1	0.33	U	
106-93-4	1,2-DIBROMOETHANE	1	1	1	0.33	U	
108-90-7	CHLOROBENZENE	1	1	1	0.33	U	
630-20-6	1,1,1,2-TETRACHLOROETHANE	1	1	1	0.33	U	
100-41-4	ETHYLBENZENE	1	1	1	0.33	U	
136777-61-2	M+P-XYLENE	1	1	1	0.44	U	
95-47-6	O-XYLENE	1	1	1	0.33	U	
100-42-5	STYRENE	1	1	1	0.33	U	
75-25-2	BROMOFORM	1	1	1	0.33	U	
98-82-8	ISOPROPYLBENZENE	1	1	1	0.33	U	
96-18-4	1,2,3-TRICHLOROPROPANE	1	1	1	0.33	U	
79-34-5	1,1,2,2-TETRACHLOROETHANE	1	1	1	0.34	U	
108-86-1	BROMOBENZENE	1	1	1	0.33	U	
103-65-1	N-PROPYLBENZENE	1	1	1	0.33	U	
95-49-8	2-CHLOROTOLUENE	1	1	1	0.33	U	
108-67-8	1,3,5-TRIMETHYLBENZENE	1	1	1	0.33	U	

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C
Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111123-4MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 23-Nov-11
Date Analyzed: 23-Nov-11

Prep Batch: VL111123-4
QCBatchID: VL111123-4-1
Run ID: VL111123-4A
Cleanup: NONE
Basis: N/A
File Name: D35499

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
106-43-4	4-CHLOROTOLUENE	1	1	1	0.33	U	
98-06-6	TERT-BUTYLBENZENE	1	1	1	0.33	U	
95-63-6	1,2,4-TRIMETHYLBENZENE	1	1	1	0.33	U	
135-98-8	SEC-BUTYLBENZENE	1	1	1	0.33	U	
541-73-1	1,3-DICHLOROBENZENE	1	1	1	0.33	U	
99-87-6	P-ISOPROPYLTOLUENE	1	1	1	0.33	U	
106-46-7	1,4-DICHLOROBENZENE	1	1	1	0.33	U	
104-51-8	N-BUTYLBENZENE	1	1	1	0.33	U	
95-50-1	1,2-DICHLOROBENZENE	1	1	1	0.33	U	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1	2	2	0.67	U	
120-82-1	1,2,4-TRICHLOROBENZENE	1	1	1	0.33	U	
87-68-3	HEXACHLOROBUTADIENE	1	1	1	0.33	U	
91-20-3	NAPHTHALENE	1	1	1	0.33	U	
87-61-6	1,2,3-TRICHLOROBENZENE	1	1	1	0.33	U	
75-05-8	ACETONITRILE	1	50	50	17	U	
107-05-1	ALLYL CHLORIDE	1	1	1	0.33	U	
123-91-1	1,4-DIOXANE	1	200	200	67	U	
97-63-2	ETHYL METHACRYLATE	1	1	1	0.33	U	
78-83-1	ISOBUTYL ALCOHOL	1	100	100	33	U	
126-98-7	METHACRYLONITRILE	1	50	50	3.3	U	
80-62-6	METHYL METHACRYLATE	1	5	5	1.7	U	
107-12-0	PROPIONITRILE	1	10	10	3.3	U	
126-99-8	CHLOROPRENE	1	1	1	0.33	U	
60-29-7	DIETHYL ETHER	1	1	1	0.33	U	
71-36-3	N-BUTANOL	1	100	100	33	U	

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C
Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111123-4MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 23-Nov-11
Date Analyzed: 23-Nov-11

Prep Batch: VL111123-4
QCBatchID: VL111123-4-1
Run ID: VL111123-4A
Cleanup: NONE
Basis: N/A
File Name: D35499

Sample Aliquot: 10ml
Final Volume: 10ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	25.3		25	101	78 - 129
1868-53-7	DIBROMOFLUOROMETHANE	24.1		25	97	80 - 124
2037-26-5	TOLUENE-D8	24.7		25	99	81 - 119

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID:
Lab ID: VL111123-4MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 23-Nov-11
Date Analyzed: 23-Nov-11

Prep Batch: VL111123-4
QCBatchID: VL111123-4-1
Run ID: VL111123-4A
Cleanup: NONE
Basis: As Received

Sample Aliquot: 10 ml
Final Volume: 10 ml
Clean DF: 1
File Name: D35499

CASNO	Retention Time	Target Analyte	Dilution Factor	Result	Units	Qualifier
		NONE DETECTED	1			U

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C
Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111123-4MMB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 23-Nov-11
Date Analyzed: 23-Nov-11

Prep Batch: VL111123-4
QCBatchID: VL111123-4-1
Run ID: VL111123-4A
Cleanup: NONE
Basis: N/A
File Name: D35500

Sample Aliquot: 10ml
Final Volume: 10ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
75-71-8	DICHLORODIFLUOROMETHANE	50	50	50	17	U	
74-87-3	CHLOROMETHANE	50	50	50	17	U	
75-01-4	VINYL CHLORIDE	50	50	50	17	U	
74-83-9	BROMOMETHANE	50	50	50	17	U	
75-00-3	CHLOROETHANE	50	50	50	17	U	
75-69-4	TRICHLOROFLUOROMETHANE	50	50	50	17	U	
107-02-8	ACROLEIN	50	500	500	170	U	
75-35-4	1,1-DICHLOROETHENE	50	50	50	17	U	
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROET	50	50	50	17	U	
67-64-1	ACETONE	50	500	500	170	U	
74-88-4	IODOMETHANE	50	50	50	17	U	
75-15-0	CARBON DISULFIDE	50	50	50	17	U	
75-09-2	METHYLENE CHLORIDE	50	18	50	17	B,J	
156-60-5	TRANS-1,2-DICHLOROETHENE	50	50	50	17	U	
1634-04-4	METHYL TERTIARY BUTYL ETHER	50	50	50	21	U	
107-13-1	ACRYLONITRILE	50	500	500	170	U	
75-34-3	1,1-DICHLOROETHANE	50	50	50	17	U	
108-05-4	VINYL ACETATE	50	100	100	33	U	
156-59-2	CIS-1,2-DICHLOROETHENE	50	50	50	17	U	
78-93-3	2-BUTANONE	50	500	500	170	U	
74-97-5	BROMOCHLOROMETHANE	50	50	50	17	U	
67-66-3	CHLOROFORM	50	50	50	17	U	
71-55-6	1,1,1-TRICHLOROETHANE	50	50	50	17	U	
594-20-7	2,2-DICHLOROPROPANE	50	50	50	17	U	
56-23-5	CARBON TETRACHLORIDE	50	50	50	17	U	
563-58-6	1,1-DICHLOROPROPENE	50	50	50	17	U	
107-06-2	1,2-DICHLOROETHANE	50	50	50	17	U	
71-43-2	BENZENE	50	50	50	17	U	

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C
Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111123-4MMB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 23-Nov-11
Date Analyzed: 23-Nov-11

Prep Batch: VL111123-4
QCBatchID: VL111123-4-1
Run ID: VL111123-4A
Cleanup: NONE
Basis: N/A
File Name: D35500

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
79-01-6	TRICHLOROETHENE	50	50	50	17	U	
78-87-5	1,2-DICHLOROPROPANE	50	50	50	17	U	
74-95-3	DIBROMOMETHANE	50	50	50	17	U	
75-27-4	BROMODICHLOROMETHANE	50	50	50	17	U	
10061-01-5	CIS-1,3-DICHLOROPROPENE	50	50	50	17	U	
108-10-1	4-METHYL-2-PENTANONE	50	500	500	170	U	
108-88-3	TOLUENE	50	50	50	17	U	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	50	50	50	17	U	
79-00-5	1,1,2-TRICHLOROETHANE	50	50	50	17	U	
591-78-6	2-HEXANONE	50	500	500	170	U	
127-18-4	TETRACHLOROETHENE	50	50	50	17	U	
142-28-9	1,3-DICHLOROPROPANE	50	50	50	17	U	
124-48-1	DIBROMOCHLOROMETHANE	50	50	50	17	U	
106-93-4	1,2-DIBROMOETHANE	50	50	50	17	U	
108-90-7	CHLOROBENZENE	50	50	50	17	U	
630-20-6	1,1,1,2-TETRACHLOROETHANE	50	50	50	17	U	
100-41-4	ETHYLBENZENE	50	50	50	17	U	
136777-61-2	M+P-XYLENE	50	50	50	22	U	
95-47-6	O-XYLENE	50	50	50	17	U	
100-42-5	STYRENE	50	50	50	17	U	
75-25-2	BROMOFORM	50	50	50	17	U	
98-82-8	ISOPROPYLBENZENE	50	50	50	17	U	
96-18-4	1,2,3-TRICHLOROPROPANE	50	50	50	17	U	
79-34-5	1,1,2,2-TETRACHLOROETHANE	50	50	50	17	U	
108-86-1	BROMOBENZENE	50	50	50	17	U	
103-65-1	N-PROPYLBENZENE	50	50	50	17	U	
95-49-8	2-CHLOROTOLUENE	50	50	50	17	U	
108-67-8	1,3,5-TRIMETHYLBENZENE	50	50	50	17	U	

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111123-4MMB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 23-Nov-11
Date Analyzed: 23-Nov-11

Prep Batch: VL111123-4
QCBatchID: VL111123-4-1
Run ID: VL111123-4A
Cleanup: NONE
Basis: N/A
File Name: D35500

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
106-43-4	4-CHLOROTOLUENE	50	50	50	17	U	
98-06-6	TERT-BUTYLBENZENE	50	50	50	17	U	
95-63-6	1,2,4-TRIMETHYLBENZENE	50	50	50	17	U	
135-98-8	SEC-BUTYLBENZENE	50	50	50	17	U	
541-73-1	1,3-DICHLOROBENZENE	50	50	50	17	U	
99-87-6	P-ISOPROPYLTOLUENE	50	50	50	17	U	
106-46-7	1,4-DICHLOROBENZENE	50	50	50	17	U	
104-51-8	N-BUTYLBENZENE	50	50	50	17	U	
95-50-1	1,2-DICHLOROBENZENE	50	50	50	17	U	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	50	100	100	33	U	
120-82-1	1,2,4-TRICHLOROBENZENE	50	50	50	17	U	
87-68-3	HEXACHLOROBUTADIENE	50	50	50	17	U	
91-20-3	NAPHTHALENE	50	50	50	17	U	
87-61-6	1,2,3-TRICHLOROBENZENE	50	50	50	17	U	
75-05-8	ACETONITRILE	50	2500	2500	830	U	
107-05-1	ALLYL CHLORIDE	50	50	50	17	U	
123-91-1	1,4-DIOXANE	50	10000	10000	3300	U	
97-63-2	ETHYL METHACRYLATE	50	50	50	17	U	
78-83-1	ISOBUTYL ALCOHOL	50	5000	5000	1700	U	
126-98-7	METHACRYLONITRILE	50	2500	2500	170	U	
80-62-6	METHYL METHACRYLATE	50	250	250	83	U	
107-12-0	PROPIONITRILE	50	500	500	170	U	
126-99-8	CHLOROPRENE	50	50	50	17	U	
60-29-7	DIETHYL ETHER	50	50	50	17	U	
71-36-3	N-BUTANOL	50	5000	5000	1700	U	

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C
Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111123-4MMB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 23-Nov-11
Date Analyzed: 23-Nov-11

Prep Batch: VL111123-4
QCBatchID: VL111123-4-1
Run ID: VL111123-4A
Cleanup: NONE
Basis: N/A
File Name: D35500

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	1120		1250	90	78 - 129
1868-53-7	DIBROMOFLUOROMETHANE	1150		1250	92	80 - 124
2037-26-5	TOLUENE-D8	1450		1250	116	81 - 119

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID:
Lab ID: VL111123-4MMB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 23-Nov-11
Date Analyzed: 23-Nov-11

Prep Batch: VL111123-4
QCBatchID: VL111123-4-1
Run ID: VL111123-4A
Cleanup: NONE
Basis: As Received

Sample Aliquot: 10 ml
Final Volume: 10 ml
Clean DF: 1
File Name: D35500

CASNO	Retention Time	Target Analyte	Dilution Factor	Result	Units	Qualifier
79-20-9	4.90	METHYL ACETATE	50	340	UG/L	J
141-78-6	7.61	ETHYL ACETATE	50	290	UG/L	J

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID: R-61 Sc 1-11-15-VOC
Lab ID: 1111251-1

Analysis ReqCode: 104

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 15-Nov-11
Date Extracted: 22-Nov-11
Date Analyzed: 22-Nov-11
Prep Method: SW5030 Rev C

Prep Batch: VL111122-4
QCBatchID: VL111122-4-3
Run ID: VL111122-4A
Cleanup: NONE
Basis: As Received
File Name: D35482

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
75-71-8	DICHLORODIFLUOROMETHANE	1	1	1	0.33	U	
74-87-3	CHLOROMETHANE	1	1	1	0.33	U	
75-01-4	VINYL CHLORIDE	1	1	1	0.33	U	
74-83-9	BROMOMETHANE	1	1	1	0.33	U	
75-00-3	CHLOROETHANE	1	1	1	0.33	U	
75-69-4	TRICHLOROFLUOROMETHANE	1	1	1	0.33	U	
107-02-8	ACROLEIN	1	10	10	3.3	U	
75-35-4	1,1-DICHLOROETHENE	1	1	1	0.33	U	
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETH	1	1	1	0.33	U	
67-64-1	ACETONE	1	30	10	3.3		
74-88-4	IODOMETHANE	1	1	1	0.33	U	
75-15-0	CARBON DISULFIDE	1	1	1	0.33	U	
75-09-2	METHYLENE CHLORIDE	1	1	1	0.35	U	
156-60-5	TRANS-1,2-DICHLOROETHENE	1	1	1	0.33	U	
1634-04-4	METHYL TERTIARY BUTYL ETHER	1	1	1	0.42	U	
107-13-1	ACRYLONITRILE	1	10	10	3.3	U	
75-34-3	1,1-DICHLOROETHANE	1	1	1	0.33	U	
108-05-4	VINYL ACETATE	1	2	2	0.67	U	
156-59-2	CIS-1,2-DICHLOROETHENE	1	1	1	0.33	U	
78-93-3	2-BUTANONE	1	10	10	3.3	U	
74-97-5	BROMOCHLOROMETHANE	1	1	1	0.33	U	
67-66-3	CHLOROFORM	1	1	1	0.33	U	
71-55-6	1,1,1-TRICHLOROETHANE	1	1	1	0.33	U	
594-20-7	2,2-DICHLOROPROPANE	1	1	1	0.33	U	
56-23-5	CARBON TETRACHLORIDE	1	1	1	0.33	U	
563-58-6	1,1-DICHLOROPROPENE	1	1	1	0.33	U	

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID: R-61 Sc 1-11-15-VOC
Lab ID: 1111251-1

Analysis ReqCode: 104

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 15-Nov-11
Date Extracted: 22-Nov-11
Date Analyzed: 22-Nov-11
Prep Method: SW5030 Rev C

Prep Batch: VL111122-4
QCBatchID: VL111122-4-3
Run ID: VL111122-4A
Cleanup: NONE
Basis: As Received
File Name: D35482

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
107-06-2	1,2-DICHLOROETHANE	1	1	1	0.33	U	
71-43-2	BENZENE	1	1	1	0.33	U	
79-01-6	TRICHLOROETHENE	1	1	1	0.33	U	
78-87-5	1,2-DICHLOROPROPANE	1	1	1	0.33	U	
74-95-3	DIBROMOMETHANE	1	1	1	0.33	U	
75-27-4	BROMODICHLOROMETHANE	1	1	1	0.33	U	
10061-01-5	CIS-1,3-DICHLOROPROPENE	1	1	1	0.33	U	
108-10-1	4-METHYL-2-PENTANONE	1	10	10	3.3	U	
108-88-3	TOLUENE	1	7.1	1	0.33		
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1	1	1	0.33	U	
79-00-5	1,1,2-TRICHLOROETHANE	1	1	1	0.33	U	
591-78-6	2-HEXANONE	1	10	10	3.3	U	
127-18-4	TETRACHLOROETHENE	1	1	1	0.33	U	
142-28-9	1,3-DICHLOROPROPANE	1	1	1	0.33	U	
124-48-1	DIBROMOCHLOROMETHANE	1	1	1	0.33	U	
106-93-4	1,2-DIBROMOETHANE	1	1	1	0.33	U	
108-90-7	CHLOROBENZENE	1	1	1	0.33	U	
630-20-6	1,1,1,2-TETRACHLOROETHANE	1	1	1	0.33	U	
100-41-4	ETHYLBENZENE	1	1	1	0.33	U	
136777-61-2	M+P-XYLENE	1	1	1	0.44	U	
95-47-6	O-XYLENE	1	1	1	0.33	U	
100-42-5	STYRENE	1	1	1	0.33	U	
75-25-2	BROMOFORM	1	1	1	0.33	U	
98-82-8	ISOPROPYLBENZENE	1	1	1	0.33	U	
96-18-4	1,2,3-TRICHLOROPROPANE	1	1	1	0.33	U	
79-34-5	1,1,2,2-TETRACHLOROETHANE	1	1	1	0.34	U	

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID: R-61 Sc 1-11-15-VOC
Lab ID: 1111251-1

Analysis ReqCode: 104

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 15-Nov-11
Date Extracted: 22-Nov-11
Date Analyzed: 22-Nov-11
Prep Method: SW5030 Rev C

Prep Batch: VL111122-4
QCBatchID: VL111122-4-3
Run ID: VL111122-4A
Cleanup: NONE
Basis: As Received
File Name: D35482

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
108-86-1	BROMOBENZENE	1	1	1	0.33	U	
103-65-1	N-PROPYLBENZENE	1	1	1	0.33	U	
95-49-8	2-CHLOROTOLUENE	1	1	1	0.33	U	
108-67-8	1,3,5-TRIMETHYLBENZENE	1	1	1	0.33	U	
106-43-4	4-CHLOROTOLUENE	1	1	1	0.33	U	
98-06-6	TERT-BUTYLBENZENE	1	1	1	0.33	U	
95-63-6	1,2,4-TRIMETHYLBENZENE	1	1	1	0.33	U	
135-98-8	SEC-BUTYLBENZENE	1	1	1	0.33	U	
541-73-1	1,3-DICHLOROBENZENE	1	1	1	0.33	U	
99-87-6	P-ISOPROPYLTOLUENE	1	1	1	0.33	U	
106-46-7	1,4-DICHLOROBENZENE	1	1	1	0.33	U	
104-51-8	N-BUTYLBENZENE	1	1	1	0.33	U	
95-50-1	1,2-DICHLOROBENZENE	1	1	1	0.33	U	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1	2	2	0.67	U	
120-82-1	1,2,4-TRICHLOROBENZENE	1	1	1	0.33	U	
87-68-3	HEXACHLOROBUTADIENE	1	1	1	0.33	U	
91-20-3	NAPHTHALENE	1	1	1	0.33	U	
87-61-6	1,2,3-TRICHLOROBENZENE	1	1	1	0.33	U	
75-05-8	ACETONITRILE	1	50	50	17	U	
107-05-1	ALLYL CHLORIDE	1	1	1	0.33	U	
123-91-1	1,4-DIOXANE	1	200	200	67	U	
97-63-2	ETHYL METHACRYLATE	1	1	1	0.33	U	
78-83-1	ISOBUTYL ALCOHOL	1	100	100	33	U	
126-98-7	METHACRYLONITRILE	1	50	50	3.3	U	
80-62-6	METHYL METHACRYLATE	1	5	5	1.7	U	
107-12-0	PROPIONITRILE	1	10	10	3.3	U	

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID: R-61 Sc 1-11-15-VOC
Lab ID: 1111251-1

Analysis ReqCode: 104

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 15-Nov-11
Date Extracted: 22-Nov-11
Date Analyzed: 22-Nov-11
Prep Method: SW5030 Rev C

Prep Batch: VL111122-4
QCBatchID: VL111122-4-3
Run ID: VL111122-4A
Cleanup: NONE
Basis: As Received
File Name: D35482

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
126-99-8	CHLOROPRENE	1	1	1	0.33	U	
60-29-7	DIETHYL ETHER	1	1	1	0.33	U	
71-36-3	N-BUTANOL	1	100	100	33	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	24.6		25	98	78 - 129
1868-53-7	DIBROMOFLUOROMETHANE	24.2		25	97	80 - 124
2037-26-5	TOLUENE-D8	24.7		25	99	81 - 119

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID: R-61 Sc 1-11-15-VOC
Lab ID: 1111251-1

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 15-Nov-11
Date Extracted: 22-Nov-11
Date Analyzed: 22-Nov-11

Prep Batch: VL111122-4
QCBatchID: VL111122-4-3
Run ID: VL111122-4A
Cleanup: NONE
Basis: As Received

Sample Aliquot: 10ml
Final Volume: 10ml
Clean DF: 1
File Name: D35482

CASNO	Retention Time	Target Analyte	Dilution Factor	Result	Units	Qualifier
115-11-7	2.24	2-METHYL-1-PROPENE	1	3.5	UG/L	J

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID: SWR61PADBASIN
Lab ID: 1111251-3

Analysis ReqCode: 104

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: 15-Nov-11
Date Extracted: 23-Nov-11
Date Analyzed: 23-Nov-11
Prep Method: SW5030 Rev C

Prep Batch: VL111123-4
QCBatchID: VL111123-4-1
Run ID: VL111123-4A
Cleanup: NONE
Basis: As Received
File Name: D35519

Sample Aliquot: 5.19g
Final Volume: 10ml
Result Units: UG/KG
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
75-71-8	DICHLORODIFLUOROMETHANE	1000	1900	1900	640	U	
74-87-3	CHLOROMETHANE	1000	1900	1900	640	U	
75-01-4	VINYL CHLORIDE	1000	1900	1900	640	U	
74-83-9	BROMOMETHANE	1000	1900	1900	640	U	
75-00-3	CHLOROETHANE	1000	1900	1900	640	U	
75-69-4	TRICHLOROFLUOROMETHANE	1000	1900	1900	640	U	
107-02-8	ACROLEIN	1000	19000	19000	6400	U	
75-35-4	1,1-DICHLOROETHENE	1000	1900	1900	640	U	
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETH	1000	1900	1900	640	U	
67-64-1	ACETONE	1000	19000	19000	6400	U	
74-88-4	IODOMETHANE	1000	1900	1900	640	U	
75-15-0	CARBON DISULFIDE	1000	1900	1900	640	U	
75-09-2	METHYLENE CHLORIDE	1000	2400	1900	670	B	
156-60-5	TRANS-1,2-DICHLOROETHENE	1000	1900	1900	640	U	
1634-04-4	METHYL TERTIARY BUTYL ETHER	1000	1900	1900	810	U	
107-13-1	ACRYLONITRILE	1000	19000	19000	6400	U	
75-34-3	1,1-DICHLOROETHANE	1000	1900	1900	640	U	
108-05-4	VINYL ACETATE	1000	3900	3900	1300	U	
156-59-2	CIS-1,2-DICHLOROETHENE	1000	1900	1900	640	U	
78-93-3	2-BUTANONE	1000	19000	19000	6400	U	
74-97-5	BROMOCHLOROMETHANE	1000	1900	1900	640	U	
67-66-3	CHLOROFORM	1000	1900	1900	640	U	
71-55-6	1,1,1-TRICHLOROETHANE	1000	1900	1900	640	U	
594-20-7	2,2-DICHLOROPROPANE	1000	1900	1900	640	U	
56-23-5	CARBON TETRACHLORIDE	1000	1900	1900	640	U	
563-58-6	1,1-DICHLOROPROPENE	1000	1900	1900	640	U	

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID: SWR61PADBASIN
Lab ID: 1111251-3

Analysis ReqCode: 104

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: 15-Nov-11
Date Extracted: 23-Nov-11
Date Analyzed: 23-Nov-11
Prep Method: SW5030 Rev C

Prep Batch: VL111123-4
QCBatchID: VL111123-4-1
Run ID: VL111123-4A
Cleanup: NONE
Basis: As Received
File Name: D35519

Sample Aliquot: 5.19 g
Final Volume: 10 ml
Result Units: UG/KG
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
107-06-2	1,2-DICHLOROETHANE	1000	1900	1900	640	U	
71-43-2	BENZENE	1000	1900	1900	640	U	
79-01-6	TRICHLOROETHENE	1000	1900	1900	640	U	
78-87-5	1,2-DICHLOROPROPANE	1000	1900	1900	640	U	
74-95-3	DIBROMOMETHANE	1000	1900	1900	640	U	
75-27-4	BROMODICHLOROMETHANE	1000	1900	1900	640	U	
10061-01-5	CIS-1,3-DICHLOROPROPENE	1000	1900	1900	640	U	
108-10-1	4-METHYL-2-PENTANONE	1000	19000	19000	6400	U	
108-88-3	TOLUENE	1000	1100	1900	640	J	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1000	1900	1900	640	U	
79-00-5	1,1,2-TRICHLOROETHANE	1000	1900	1900	640	U	
591-78-6	2-HEXANONE	1000	19000	19000	6400	U	
127-18-4	TETRACHLOROETHENE	1000	1900	1900	640	U	
142-28-9	1,3-DICHLOROPROPANE	1000	1900	1900	640	U	
124-48-1	DIBROMOCHLOROMETHANE	1000	1900	1900	640	U	
106-93-4	1,2-DIBROMOETHANE	1000	1900	1900	640	U	
108-90-7	CHLOROBENZENE	1000	1900	1900	640	U	
630-20-6	1,1,1,2-TETRACHLOROETHANE	1000	1900	1900	640	U	
100-41-4	ETHYLBENZENE	1000	1900	1900	640	U	
136777-61-2	M+P-XYLENE	1000	1900	1900	860	U	
95-47-6	O-XYLENE	1000	1900	1900	640	U	
100-42-5	STYRENE	1000	1900	1900	640	U	
75-25-2	BROMOFORM	1000	1900	1900	640	U	
98-82-8	ISOPROPYLBENZENE	1000	1900	1900	640	U	
96-18-4	1,2,3-TRICHLOROPROPANE	1000	1900	1900	640	U	
79-34-5	1,1,2,2-TETRACHLOROETHANE	1000	1900	1900	660	U	

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID: SWR61PADBASIN
Lab ID: 1111251-3

Analysis ReqCode: 104

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: 15-Nov-11
Date Extracted: 23-Nov-11
Date Analyzed: 23-Nov-11
Prep Method: SW5030 Rev C

Prep Batch: VL111123-4
QCBatchID: VL111123-4-1
Run ID: VL111123-4A
Cleanup: NONE
Basis: As Received
File Name: D35519

Sample Aliquot: 5.19 g
Final Volume: 10 ml
Result Units: UG/KG
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
108-86-1	BROMOBENZENE	1000	1900	1900	640	U	
103-65-1	N-PROPYLBENZENE	1000	1900	1900	640	U	
95-49-8	2-CHLOROTOLUENE	1000	1900	1900	640	U	
108-67-8	1,3,5-TRIMETHYLBENZENE	1000	1900	1900	640	U	
106-43-4	4-CHLOROTOLUENE	1000	1900	1900	640	U	
98-06-6	TERT-BUTYLBENZENE	1000	1900	1900	640	U	
95-63-6	1,2,4-TRIMETHYLBENZENE	1000	1900	1900	640	U	
135-98-8	SEC-BUTYLBENZENE	1000	1900	1900	640	U	
541-73-1	1,3-DICHLOROBENZENE	1000	1900	1900	640	U	
99-87-6	P-ISOPROPYLTOLUENE	1000	1900	1900	640	U	
106-46-7	1,4-DICHLOROBENZENE	1000	1900	1900	640	U	
104-51-8	N-BUTYLBENZENE	1000	1900	1900	640	U	
95-50-1	1,2-DICHLOROBENZENE	1000	1900	1900	640	U	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1000	3900	3900	1300	U	
120-82-1	1,2,4-TRICHLOROBENZENE	1000	1900	1900	640	U	
87-68-3	HEXACHLOROBUTADIENE	1000	1900	1900	640	U	
91-20-3	NAPHTHALENE	1000	1900	1900	640	U	
87-61-6	1,2,3-TRICHLOROBENZENE	1000	1900	1900	640	U	
75-05-8	ACETONITRILE	1000	96000	96000	32000	U	
107-05-1	ALLYL CHLORIDE	1000	1900	1900	640	U	
123-91-1	1,4-DIOXANE	1000	390000	390000	130000	U	
97-63-2	ETHYL METHACRYLATE	1000	1900	1900	640	U	
78-83-1	ISOBUTYL ALCOHOL	1000	190000	190000	64000	U	
126-98-7	METHACRYLONITRILE	1000	96000	96000	6400	U	
80-62-6	METHYL METHACRYLATE	1000	9600	9600	3200	U	
107-12-0	PROPIONITRILE	1000	19000	19000	6400	U	

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID: SWR61PADBASIN
Lab ID: 1111251-3

Analysis ReqCode: 104

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: 15-Nov-11
Date Extracted: 23-Nov-11
Date Analyzed: 23-Nov-11
Prep Method: SW5030 Rev C

Prep Batch: VL111123-4
QCBatchID: VL111123-4-1
Run ID: VL111123-4A
Cleanup: NONE
Basis: As Received
File Name: D35519

Sample Aliquot: 5.19g
Final Volume: 10ml
Result Units: UG/KG
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
126-99-8	CHLOROPRENE	1000	1900	1900	640	U	
60-29-7	DIETHYL ETHER	1000	1900	1900	640	U	
71-36-3	N-BUTANOL	1000	190000	190000	64000	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	47200		48200	98	78 - 129
1868-53-7	DIBROMOFLUOROMETHANE	45700		48200	95	80 - 124
2037-26-5	TOLUENE-D8	48000		48200	100	81 - 119

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Field ID: SWR61PADBASIN
Lab ID: 1111251-3

Sample Matrix: SOLID
% Moisture: N/A
Date Collected: 15-Nov-11
Date Extracted: 23-Nov-11
Date Analyzed: 23-Nov-11

Prep Batch: VL111123-4
QCBatchID: VL111123-4-1
Run ID: VL111123-4A
Cleanup: NONE
Basis: As Received

Sample Aliquot: 5.19 g
Final Volume: 10 ml
Clean DF: 1
File Name: D35519

CASNO	Retention Time	Target Analyte	Dilution Factor	Result	Units	Qualifier
110-62-3	9.78	PENTANAL	1000	1900	UG/KG	J
66-25-1	11.43	HEXANAL	1000	27000	UG/KG	J
111-71-7	12.70	HEPTANAL	1000	4300	UG/KG	J
124-13-0	13.78	OCTANAL	1000	20000	UG/KG	J
124-19-6	14.72	NONANAL	1000	26000	UG/KG	J

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111122-4LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/22/2011
Date Analyzed: 11/22/2011
Prep Method: SW5030C

Prep Batch: VL111122-4
QCBatchID: VL111122-4-3
Run ID: VL111122-4A
Cleanup: NONE
Basis: N/A
File Name: D35464

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
75-71-8	DICHLORODIFLUOROMETHANE	10	8.26	1		83	38 - 131%
74-87-3	CHLOROMETHANE	10	8.27	1		83	62 - 141%
75-01-4	VINYL CHLORIDE	10	8.16	1		82	77 - 124%
74-83-9	BROMOMETHANE	10	8.94	1		89	76 - 133%
75-00-3	CHLOROETHANE	10	8.25	1		82	81 - 130%
75-69-4	TRICHLOROFLUOROMETHANE	10	8.57	1		86	84 - 146%
107-02-8	ACROLEIN	100	91.4	10		91	30 - 150%
75-35-4	1,1-DICHLOROETHENE	10	9.14	1		91	75 - 126%
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHA	10	9.37	1		94	71 - 144%
67-64-1	ACETONE	40	34.7	10		87	50 - 150%
74-88-4	IODOMETHANE	10	8.98	1		90	76 - 116%
75-15-0	CARBON DISULFIDE	10	8.91	1		89	68 - 129%
75-09-2	METHYLENE CHLORIDE	10	8.81	1		88	22 - 146%
156-60-5	TRANS-1,2-DICHLOROETHENE	10	9.12	1		91	76 - 135%
1634-04-4	METHYL TERTIARY BUTYL ETHER	20	16.8	1		84	75 - 125%
107-13-1	ACRYLONITRILE	100	92.8	10		93	30 - 150%
75-34-3	1,1-DICHLOROETHANE	10	8.69	1		87	77 - 131%
108-05-4	VINYL ACETATE	10	8.1	2		81	56 - 151%
156-59-2	CIS-1,2-DICHLOROETHENE	10	9.08	1		91	81 - 121%
78-93-3	2-BUTANONE	40	33.8	10		85	50 - 150%
74-97-5	BROMOCHLOROMETHANE	10	9.49	1		95	85 - 126%
67-66-3	CHLOROFORM	10	8.52	1		85	84 - 125%
71-55-6	1,1,1-TRICHLOROETHANE	10	8.32	1		83	82 - 129%
594-20-7	2,2-DICHLOROPROPANE	10	8.34	1		83	79 - 130%
56-23-5	CARBON TETRACHLORIDE	10	8.12	1	*	81	83 - 135%
563-58-6	1,1-DICHLOROPROPENE	10	8.78	1		88	85 - 127%

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111122-4LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/22/2011
Date Analyzed: 11/22/2011
Prep Method: SW5030C

Prep Batch: VL111122-4
QCBatchID: VL111122-4-3
Run ID: VL111122-4A
Cleanup: NONE
Basis: N/A
File Name: D35464

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
107-06-2	1,2-DICHLOROETHANE	10	8	1	*	80	84 - 126%
71-43-2	BENZENE	10	8.91	1		89	82 - 122%
79-01-6	TRICHLOROETHENE	10	8.87	1		89	82 - 121%
78-87-5	1,2-DICHLOROPROPANE	10	9.08	1		91	81 - 121%
74-95-3	DIBROMOMETHANE	10	8.89	1		89	81 - 125%
75-27-4	BROMODICHLOROMETHANE	10	8.04	1	*	80	82 - 120%
10061-01-5	CIS-1,3-DICHLOROPROPENE	10	8.58	1		86	79 - 120%
108-10-1	4-METHYL-2-PENTANONE	40	36.5	10		91	50 - 150%
108-88-3	TOLUENE	10	8.91	1		89	83 - 121%
10061-02-6	TRANS-1,3-DICHLOROPROPENE	10	8.54	1		85	78 - 113%
79-00-5	1,1,2-TRICHLOROETHANE	10	9.03	1		90	82 - 122%
591-78-6	2-HEXANONE	40	35	10		88	50 - 150%
127-18-4	TETRACHLOROETHENE	10	8.74	1		87	79 - 136%
142-28-9	1,3-DICHLOROPROPANE	10	9.04	1		90	80 - 126%
124-48-1	DIBROMOCHLOROMETHANE	10	8.22	1		82	80 - 123%
106-93-4	1,2-DIBROMOETHANE	10	9.19	1		92	85 - 124%
108-90-7	CHLOROBENZENE	10	9.06	1		91	82 - 121%
630-20-6	1,1,1,2-TETRACHLOROETHANE	10	8.81	1		88	85 - 128%
100-41-4	ETHYLBENZENE	10	8.73	1		87	83 - 126%
136777-61-2	M+P-XYLENE	20	17.5	1		87	82 - 129%
95-47-6	O-XYLENE	10	8.79	1		88	87 - 132%
100-42-5	STYRENE	10	8.83	1		88	82 - 123%
75-25-2	BROMOFORM	10	7.91	1		79	79 - 118%
98-82-8	ISOPROPYLBENZENE	10	8.75	1		87	75 - 132%
96-18-4	1,2,3-TRICHLOROPROPANE	10	8.94	1		89	77 - 128%
79-34-5	1,1,2,2-TETRACHLOROETHANE	10	8.78	1		88	74 - 130%
108-86-1	BROMOBENZENE	10	9.27	1		93	78 - 124%

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111122-4LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/22/2011
Date Analyzed: 11/22/2011
Prep Method: SW5030C

Prep Batch: VL111122-4
QCBatchID: VL111122-4-3
Run ID: VL111122-4A
Cleanup: NONE
Basis: N/A
File Name: D35464

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
103-65-1	N-PROPYLBENZENE	10	8.89	1		89	75 - 134%
95-49-8	2-CHLOROTOLUENE	10	9	1		90	77 - 128%
108-67-8	1,3,5-TRIMETHYLBENZENE	10	8.62	1		86	77 - 131%
106-43-4	4-CHLOROTOLUENE	10	8.84	1		88	79 - 128%
98-06-6	TERT-BUTYLBENZENE	10	8.62	1		86	76 - 134%
95-63-6	1,2,4-TRIMETHYLBENZENE	10	8.46	1		85	80 - 138%
135-98-8	SEC-BUTYLBENZENE	10	8.59	1		86	73 - 135%
541-73-1	1,3-DICHLOROBENZENE	10	8.93	1		89	79 - 126%
99-87-6	P-ISOPROPYLTOLUENE	10	8.55	1		86	72 - 132%
106-46-7	1,4-DICHLOROBENZENE	10	8.8	1		88	81 - 125%
104-51-8	N-BUTYLBENZENE	10	8.05	1		80	77 - 141%
95-50-1	1,2-DICHLOROBENZENE	10	8.91	1		89	82 - 128%
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	10	7.25	2		72	64 - 134%
120-82-1	1,2,4-TRICHLOROBENZENE	10	9.55	1		95	80 - 128%
87-68-3	HEXACHLOROBUTADIENE	10	8.94	1		89	70 - 136%
91-20-3	NAPHTHALENE	10	9.74	1		97	78 - 125%
87-61-6	1,2,3-TRICHLOROBENZENE	10	10.4	1		104	79 - 131%
75-05-8	ACETONITRILE	100	86.5	50		86	30 - 150%
107-05-1	ALLYL CHLORIDE	10	8.89	1		89	30 - 150%
123-91-1	1,4-DIOXANE	200	182	200	J	91	30 - 150%
97-63-2	ETHYL METHACRYLATE	10	8.33	1		83	30 - 150%
78-83-1	ISOBUTYL ALCOHOL	200	161	100		80	30 - 150%
126-98-7	METHACRYLONITRILE	10	8.12	50	J	81	30 - 150%
80-62-6	METHYL METHACRYLATE	10	8.39	5		84	30 - 150%
107-12-0	PROPIONITRILE	100	87.6	10		88	30 - 150%
126-99-8	CHLOROPRENE	10	8.07	1		81	30 - 150%
60-29-7	DIETHYL ETHER	10	9.38	1		94	30 - 150%

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111122-4LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/22/2011
Date Analyzed: 11/22/2011
Prep Method: SW5030C

Prep Batch: VL111122-4
QCBatchID: VL111122-4-3
Run ID: VL111122-4A
Cleanup: NONE
Basis: N/A
File Name: D35464

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
71-36-3	N-BUTANOL	500	417	100		83	30 - 150%

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111122-4LCSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/22/2011
Date Analyzed: 11/22/2011
Prep Method: SW5030C

Prep Batch: VL111122-4
QCBatchID: VL111122-4-3
Run ID: VL111122-4A
Cleanup: NONE
Basis: N/A
File Name: D35465

Sample Aliquot: 10ml
Final Volume: 10ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
75-71-8	DICHLORODIFLUOROMETHANE	10	8.64	1		86	20	4
74-87-3	CHLOROMETHANE	10	8.56	1		86	20	4
75-01-4	VINYL CHLORIDE	10	8.5	1		85	20	4
74-83-9	BROMOMETHANE	10	9.2	1		92	20	3
75-00-3	CHLOROETHANE	10	8.57	1		86	20	4
75-69-4	TRICHLOROFLUOROMETHANE	10	9.02	1		90	20	5
107-02-8	ACROLEIN	100	98.3	10		98	20	7
75-35-4	1,1-DICHLOROETHENE	10	9.26	1		93	20	1
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHA	10	9.58	1		96	20	2
67-64-1	ACETONE	40	40.8	10		102	30	16
74-88-4	IODOMETHANE	10	9.41	1		94	20	5
75-15-0	CARBON DISULFIDE	10	9.16	1		92	20	3
75-09-2	METHYLENE CHLORIDE	10	9.33	1		93	20	6
156-60-5	TRANS-1,2-DICHLOROETHENE	10	9.45	1		94	20	4
1634-04-4	METHYL TERTIARY BUTYL ETHER	20	18.3	1		91	20	8
107-13-1	ACRYLONITRILE	100	99.8	10		100	20	7
75-34-3	1,1-DICHLOROETHANE	10	9.04	1		90	20	4
108-05-4	VINYL ACETATE	10	8.81	2		88	20	8
156-59-2	CIS-1,2-DICHLOROETHENE	10	9.54	1		95	20	5
78-93-3	2-BUTANONE	40	35.8	10		90	30	6
74-97-5	BROMOCHLOROMETHANE	10	10.2	1		102	20	7
67-66-3	CHLOROFORM	10	8.95	1		89	20	5
71-55-6	1,1,1-TRICHLOROETHANE	10	8.56	1		86	20	3
594-20-7	2,2-DICHLOROPROPANE	10	8.58	1		86	20	3
56-23-5	CARBON TETRACHLORIDE	10	8.62	1		86	20	6
563-58-6	1,1-DICHLOROPROPENE	10	9.2	1		92	20	5
107-06-2	1,2-DICHLOROETHANE	10	8.49	1		85	20	6

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111122-4LCSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/22/2011
Date Analyzed: 11/22/2011
Prep Method: SW5030C

Prep Batch: VL111122-4
QCBatchID: VL111122-4-3
Run ID: VL111122-4A
Cleanup: NONE
Basis: N/A
File Name: D35465

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
71-43-2	BENZENE	10	9.36	1		94	20	5
79-01-6	TRICHLOROETHENE	10	9.39	1		94	20	6
78-87-5	1,2-DICHLOROPROPANE	10	9.38	1		94	20	3
74-95-3	DIBROMOMETHANE	10	9.15	1		92	20	3
75-27-4	BROMODICHLOROMETHANE	10	8.5	1		85	20	6
10061-01-5	CIS-1,3-DICHLOROPROPENE	10	9.06	1		91	20	5
108-10-1	4-METHYL-2-PENTANONE	40	38.9	10		97	30	6
108-88-3	TOLUENE	10	9.31	1		93	20	4
10061-02-6	TRANS-1,3-DICHLOROPROPENE	10	8.82	1		88	20	3
79-00-5	1,1,2-TRICHLOROETHANE	10	9.66	1		97	20	7
591-78-6	2-HEXANONE	40	38	10		95	30	8
127-18-4	TETRACHLOROETHENE	10	9.41	1		94	20	7
142-28-9	1,3-DICHLOROPROPANE	10	9.68	1		97	20	7
124-48-1	DIBROMOCHLOROMETHANE	10	9.01	1		90	20	9
106-93-4	1,2-DIBROMOETHANE	10	9.8	1		98	20	6
108-90-7	CHLOROBENZENE	10	9.38	1		94	20	3
630-20-6	1,1,1,2-TETRACHLOROETHANE	10	9.15	1		92	20	4
100-41-4	ETHYLBENZENE	10	9.1	1		91	20	4
136777-61-2	M+P-XYLENE	20	18.4	1		92	20	5
95-47-6	O-XYLENE	10	9.32	1		93	20	6
100-42-5	STYRENE	10	9.35	1		93	20	6
75-25-2	BROMOFORM	10	8.63	1		86	20	9
98-82-8	ISOPROPYLBENZENE	10	9.13	1		91	20	4
96-18-4	1,2,3-TRICHLOROPROPANE	10	9.56	1		96	20	7
79-34-5	1,1,2,2-TETRACHLOROETHANE	10	9.15	1		92	20	4
108-86-1	BROMOBENZENE	10	9.65	1		97	20	4
103-65-1	N-PROPYLBENZENE	10	9.2	1		92	20	3

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111122-4LCSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/22/2011
Date Analyzed: 11/22/2011
Prep Method: SW5030C

Prep Batch: VL111122-4
QCBatchID: VL111122-4-3
Run ID: VL111122-4A
Cleanup: NONE
Basis: N/A
File Name: D35465

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
95-49-8	2-CHLOROTOLUENE	10	9.34	1		93	20	4
108-67-8	1,3,5-TRIMETHYLBENZENE	10	8.88	1		89	20	3
106-43-4	4-CHLOROTOLUENE	10	9.49	1		95	20	7
98-06-6	TERT-BUTYLBENZENE	10	8.89	1		89	20	3
95-63-6	1,2,4-TRIMETHYLBENZENE	10	8.72	1		87	20	3
135-98-8	SEC-BUTYLBENZENE	10	8.82	1		88	20	3
541-73-1	1,3-DICHLOROBENZENE	10	9.2	1		92	20	3
99-87-6	P-ISOPROPYLTOLUENE	10	8.81	1		88	20	3
106-46-7	1,4-DICHLOROBENZENE	10	9.38	1		94	20	6
104-51-8	N-BUTYLBENZENE	10	8.37	1		84	20	4
95-50-1	1,2-DICHLOROBENZENE	10	9.44	1		94	20	6
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	10	7.88	2		79	20	8
120-82-1	1,2,4-TRICHLOROBENZENE	10	11.1	1		111	20	15
87-68-3	HEXACHLOROBUTADIENE	10	10.3	1		103	20	14
91-20-3	NAPHTHALENE	10	11	1		110	20	12
87-61-6	1,2,3-TRICHLOROBENZENE	10	12.2	1		122	20	16
75-05-8	ACETONITRILE	100	91.9	50		92	20	6
107-05-1	ALLYL CHLORIDE	10	9.37	1		94	20	5
123-91-1	1,4-DIOXANE	200	186	200	J	93	20	2
97-63-2	ETHYL METHACRYLATE	10	9.19	1		92	20	10
78-83-1	ISOBUTYL ALCOHOL	200	169	100		84	20	5
126-98-7	METHACRYLONITRILE	10	8.8	50	J	88	20	8
80-62-6	METHYL METHACRYLATE	10	8.79	5		88	20	5
107-12-0	PROPIONITRILE	100	94.8	10		95	20	8
126-99-8	CHLOROPRENE	10	8.45	1		85	20	5
60-29-7	DIETHYL ETHER	10	9.81	1		98	20	4
71-36-3	N-BUTANOL	500	454	100		91	20	8

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111122-4LCSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/22/2011
Date Analyzed: 11/22/2011
Prep Method: SW5030C

Prep Batch: VL111122-4
QCBatchID: VL111122-4-3
Run ID: VL111122-4A
Cleanup: NONE
Basis: N/A
File Name: D35465

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD

Surrogate Recovery LCS/LCSD

CASNO	Target Analyte	Spike Added	LCS % Rec.	LCS Flag	LCSD % Rec.	LCSD Flag	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	25	100		102		78 - 129
1868-53-7	DIBROMOFLUOROMETHANE	25	98		98		80 - 124
2037-26-5	TOLUENE-D8	25	99		100		81 - 119

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111123-4LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/23/2011
Date Analyzed: 11/23/2011
Prep Method: SW5030C

Prep Batch: VL111123-4
QCBatchID: VL111123-4-1
Run ID: VL111123-4A
Cleanup: NONE
Basis: N/A
File Name: D35496

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
75-71-8	DICHLORODIFLUOROMETHANE	10	8.6	1		86	38 - 131%
74-87-3	CHLOROMETHANE	10	8.6	1		86	62 - 141%
75-01-4	VINYL CHLORIDE	10	8.63	1		86	77 - 124%
74-83-9	BROMOMETHANE	10	9.21	1		92	76 - 133%
75-00-3	CHLOROETHANE	10	8.33	1		83	81 - 130%
75-69-4	TRICHLOROFLUOROMETHANE	10	8.98	1		90	84 - 146%
107-02-8	ACROLEIN	100	94.5	10		95	30 - 150%
75-35-4	1,1-DICHLOROETHENE	10	10.2	1		102	75 - 126%
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHA	10	10.2	1		102	71 - 144%
67-64-1	ACETONE	40	39.5	10		99	50 - 150%
74-88-4	IODOMETHANE	10	10.4	1		104	76 - 116%
75-15-0	CARBON DISULFIDE	10	9.9	1		99	68 - 129%
75-09-2	METHYLENE CHLORIDE	10	9.71	1		97	22 - 146%
156-60-5	TRANS-1,2-DICHLOROETHENE	10	10.1	1		101	76 - 135%
1634-04-4	METHYL TERTIARY BUTYL ETHER	20	18.9	1		94	75 - 125%
107-13-1	ACRYLONITRILE	100	95.3	10		95	30 - 150%
75-34-3	1,1-DICHLOROETHANE	10	9.62	1		96	77 - 131%
108-05-4	VINYL ACETATE	10	9.68	2		97	56 - 151%
156-59-2	CIS-1,2-DICHLOROETHENE	10	10.1	1		101	81 - 121%
78-93-3	2-BUTANONE	40	38.3	10		96	50 - 150%
74-97-5	BROMOCHLOROMETHANE	10	10.7	1		107	85 - 126%
67-66-3	CHLOROFORM	10	9.47	1		95	84 - 125%
71-55-6	1,1,1-TRICHLOROETHANE	10	9.32	1		93	82 - 129%
594-20-7	2,2-DICHLOROPROPANE	10	9.81	1		98	79 - 130%
56-23-5	CARBON TETRACHLORIDE	10	9.33	1		93	83 - 135%
563-58-6	1,1-DICHLOROPROPENE	10	9.72	1		97	85 - 127%
107-06-2	1,2-DICHLOROETHANE	10	9.02	1		90	84 - 126%

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111123-4LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/23/2011
Date Analyzed: 11/23/2011
Prep Method: SW5030C

Prep Batch: VL111123-4
QCBatchID: VL111123-4-1
Run ID: VL111123-4A
Cleanup: NONE
Basis: N/A
File Name: D35496

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
71-43-2	BENZENE	10	9.9	1		99	82 - 122%
79-01-6	TRICHLOROETHENE	10	9.82	1		98	82 - 121%
78-87-5	1,2-DICHLOROPROPANE	10	10.1	1		101	81 - 121%
74-95-3	DIBROMOMETHANE	10	9.66	1		97	81 - 125%
75-27-4	BROMODICHLOROMETHANE	10	9.12	1		91	82 - 120%
10061-01-5	CIS-1,3-DICHLOROPROPENE	10	9.51	1		95	79 - 120%
108-10-1	4-METHYL-2-PENTANONE	40	39.7	10		99	50 - 150%
108-88-3	TOLUENE	10	10.1	1		101	83 - 121%
10061-02-6	TRANS-1,3-DICHLOROPROPENE	10	9.46	1		95	78 - 113%
79-00-5	1,1,2-TRICHLOROETHANE	10	9.84	1		98	82 - 122%
591-78-6	2-HEXANONE	40	38.2	10		95	50 - 150%
127-18-4	TETRACHLOROETHENE	10	10.2	1		102	79 - 136%
142-28-9	1,3-DICHLOROPROPANE	10	9.89	1		99	80 - 126%
124-48-1	DIBROMOCHLOROMETHANE	10	9.5	1		95	80 - 123%
106-93-4	1,2-DIBROMOETHANE	10	10.1	1		101	85 - 124%
108-90-7	CHLOROBENZENE	10	9.97	1		100	82 - 121%
630-20-6	1,1,1,2-TETRACHLOROETHANE	10	9.66	1		97	85 - 128%
100-41-4	ETHYLBENZENE	10	9.74	1		97	83 - 126%
136777-61-2	M+P-XYLENE	20	19.7	1		98	82 - 129%
95-47-6	O-XYLENE	10	9.7	1		97	87 - 132%
100-42-5	STYRENE	10	9.69	1		97	82 - 123%
75-25-2	BROMOFORM	10	8.87	1		89	79 - 118%
98-82-8	ISOPROPYLBENZENE	10	9.73	1		97	75 - 132%
96-18-4	1,2,3-TRICHLOROPROPANE	10	9.43	1		94	77 - 128%
79-34-5	1,1,2,2-TETRACHLOROETHANE	10	9.76	1		98	74 - 130%
108-86-1	BROMOBENZENE	10	10.4	1		104	78 - 124%
103-65-1	N-PROPYLBENZENE	10	9.83	1		98	75 - 134%

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111123-4LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/23/2011
Date Analyzed: 11/23/2011
Prep Method: SW5030C

Prep Batch: VL111123-4
QCBatchID: VL111123-4-1
Run ID: VL111123-4A
Cleanup: NONE
Basis: N/A
File Name: D35496

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
95-49-8	2-CHLOROTOLUENE	10	10.3	1		103	77 - 128%
108-67-8	1,3,5-TRIMETHYLBENZENE	10	9.62	1		96	77 - 131%
106-43-4	4-CHLOROTOLUENE	10	9.69	1		97	79 - 128%
98-06-6	TERT-BUTYLBENZENE	10	9.67	1		97	76 - 134%
95-63-6	1,2,4-TRIMETHYLBENZENE	10	9.31	1		93	80 - 138%
135-98-8	SEC-BUTYLBENZENE	10	9.66	1		97	73 - 135%
541-73-1	1,3-DICHLOROBENZENE	10	10	1		100	79 - 126%
99-87-6	P-ISOPROPYLTOLUENE	10	9.69	1		97	72 - 132%
106-46-7	1,4-DICHLOROBENZENE	10	9.91	1		99	81 - 125%
104-51-8	N-BUTYLBENZENE	10	9.21	1		92	77 - 141%
95-50-1	1,2-DICHLOROBENZENE	10	9.92	1		99	82 - 128%
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	10	8.2	2		82	64 - 134%
120-82-1	1,2,4-TRICHLOROBENZENE	10	11.3	1		113	80 - 128%
87-68-3	HEXACHLOROBUTADIENE	10	10.5	1		105	70 - 136%
91-20-3	NAPHTHALENE	10	10.8	1		108	78 - 125%
87-61-6	1,2,3-TRICHLOROBENZENE	10	11.4	1		114	79 - 131%
75-05-8	ACETONITRILE	100	99.1	50		99	30 - 150%
107-05-1	ALLYL CHLORIDE	10	9.99	1		100	30 - 150%
123-91-1	1,4-DIOXANE	200	191	200	J	96	30 - 150%
97-63-2	ETHYL METHACRYLATE	10	9.34	1		93	30 - 150%
78-83-1	ISOBUTYL ALCOHOL	200	170	100		85	30 - 150%
126-98-7	METHACRYLONITRILE	10	9.04	50	J	90	30 - 150%
80-62-6	METHYL METHACRYLATE	10	9.17	5		92	30 - 150%
107-12-0	PROPIONITRILE	100	98.1	10		98	30 - 150%
126-99-8	CHLOROPRENE	10	9.07	1		91	30 - 150%
60-29-7	DIETHYL ETHER	10	10.2	1		102	30 - 150%
71-36-3	N-BUTANOL	500	450	100		90	30 - 150%

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111123-4LCSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/23/2011
Date Analyzed: 11/23/2011
Prep Method: SW5030C

Prep Batch: VL111123-4
QCBatchID: VL111123-4-1
Run ID: VL111123-4A
Cleanup: NONE
Basis: N/A
File Name: D35497

Sample Aliquot: 10ml
Final Volume: 10ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
75-71-8	DICHLORODIFLUOROMETHANE	10	8.68	1		87	20	1
74-87-3	CHLOROMETHANE	10	8.55	1		86	20	1
75-01-4	VINYL CHLORIDE	10	8.27	1		83	20	4
74-83-9	BROMOMETHANE	10	9.07	1		91	20	1
75-00-3	CHLOROETHANE	10	8.47	1		85	20	2
75-69-4	TRICHLOROFLUOROMETHANE	10	8.73	1		87	20	3
107-02-8	ACROLEIN	100	97.7	10		98	20	3
75-35-4	1,1-DICHLOROETHENE	10	9.65	1		96	20	5
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHA	10	10.5	1		105	20	3
67-64-1	ACETONE	40	40.9	10		102	30	3
74-88-4	IODOMETHANE	10	10.2	1		102	20	2
75-15-0	CARBON DISULFIDE	10	9.63	1		96	20	3
75-09-2	METHYLENE CHLORIDE	10	9.64	1		96	20	1
156-60-5	TRANS-1,2-DICHLOROETHENE	10	9.94	1		99	20	2
1634-04-4	METHYL TERTIARY BUTYL ETHER	20	18.8	1		94	20	0
107-13-1	ACRYLONITRILE	100	97	10		97	20	2
75-34-3	1,1-DICHLOROETHANE	10	9.53	1		95	20	1
108-05-4	VINYL ACETATE	10	10.5	2		105	20	8
156-59-2	CIS-1,2-DICHLOROETHENE	10	9.84	1		98	20	3
78-93-3	2-BUTANONE	40	38	10		95	30	1
74-97-5	BROMOCHLOROMETHANE	10	10.5	1		105	20	2
67-66-3	CHLOROFORM	10	9.38	1		94	20	1
71-55-6	1,1,1-TRICHLOROETHANE	10	8.98	1		90	20	4
594-20-7	2,2-DICHLOROPROPANE	10	9.33	1		93	20	5
56-23-5	CARBON TETRACHLORIDE	10	9.05	1		90	20	3
563-58-6	1,1-DICHLOROPROPENE	10	9.53	1		95	20	2
107-06-2	1,2-DICHLOROETHANE	10	9.04	1		90	20	0

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111123-4LCSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/23/2011
Date Analyzed: 11/23/2011
Prep Method: SW5030C

Prep Batch: VL111123-4
QCBatchID: VL111123-4-1
Run ID: VL111123-4A
Cleanup: NONE
Basis: N/A
File Name: D35497

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
71-43-2	BENZENE	10	9.85	1		99	20	0
79-01-6	TRICHLOROETHENE	10	9.61	1		96	20	2
78-87-5	1,2-DICHLOROPROPANE	10	9.65	1		97	20	4
74-95-3	DIBROMOMETHANE	10	9.72	1		97	20	1
75-27-4	BROMODICHLOROMETHANE	10	9	1		90	20	1
10061-01-5	CIS-1,3-DICHLOROPROPENE	10	9.38	1		94	20	1
108-10-1	4-METHYL-2-PENTANONE	40	40.9	10		102	30	3
108-88-3	TOLUENE	10	9.93	1		99	20	2
10061-02-6	TRANS-1,3-DICHLOROPROPENE	10	9.41	1		94	20	0
79-00-5	1,1,2-TRICHLOROETHANE	10	9.99	1		100	20	1
591-78-6	2-HEXANONE	40	39.7	10		99	30	4
127-18-4	TETRACHLOROETHENE	10	9.91	1		99	20	3
142-28-9	1,3-DICHLOROPROPANE	10	9.88	1		99	20	0
124-48-1	DIBROMOCHLOROMETHANE	10	9.49	1		95	20	0
106-93-4	1,2-DIBROMOETHANE	10	10.2	1		102	20	1
108-90-7	CHLOROBENZENE	10	9.98	1		100	20	0
630-20-6	1,1,1,2-TETRACHLOROETHANE	10	9.57	1		96	20	1
100-41-4	ETHYLBENZENE	10	9.69	1		97	20	0
136777-61-2	M+P-XYLENE	20	19.5	1		97	20	1
95-47-6	O-XYLENE	10	9.8	1		98	20	1
100-42-5	STYRENE	10	9.69	1		97	20	0
75-25-2	BROMOFORM	10	9.32	1		93	20	5
98-82-8	ISOPROPYLBENZENE	10	9.84	1		98	20	1
96-18-4	1,2,3-TRICHLOROPROPANE	10	9.63	1		96	20	2
79-34-5	1,1,2,2-TETRACHLOROETHANE	10	9.75	1		97	20	0
108-86-1	BROMOBENZENE	10	10.2	1		102	20	2
103-65-1	N-PROPYLBENZENE	10	9.34	1		93	20	5

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111123-4LCSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/23/2011
Date Analyzed: 11/23/2011
Prep Method: SW5030C

Prep Batch: VL111123-4
QCBatchID: VL111123-4-1
Run ID: VL111123-4A
Cleanup: NONE
Basis: N/A
File Name: D35497

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
95-49-8	2-CHLOROTOLUENE	10	9.73	1		97	20	6
108-67-8	1,3,5-TRIMETHYLBENZENE	10	9.23	1		92	20	4
106-43-4	4-CHLOROTOLUENE	10	9.37	1		94	20	3
98-06-6	TERT-BUTYLBENZENE	10	9.23	1		92	20	5
95-63-6	1,2,4-TRIMETHYLBENZENE	10	9.11	1		91	20	2
135-98-8	SEC-BUTYLBENZENE	10	9.07	1		91	20	6
541-73-1	1,3-DICHLOROBENZENE	10	9.61	1		96	20	5
99-87-6	P-ISOPROPYLTOLUENE	10	8.98	1		90	20	8
106-46-7	1,4-DICHLOROBENZENE	10	9.8	1		98	20	1
104-51-8	N-BUTYLBENZENE	10	8.81	1		88	20	4
95-50-1	1,2-DICHLOROBENZENE	10	9.83	1		98	20	1
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	10	9	2		90	20	9
120-82-1	1,2,4-TRICHLOROBENZENE	10	11.1	1		111	20	2
87-68-3	HEXACHLOROBUTADIENE	10	9.83	1		98	20	6
91-20-3	NAPHTHALENE	10	10.6	1		106	20	2
87-61-6	1,2,3-TRICHLOROBENZENE	10	11.4	1		114	20	0
75-05-8	ACETONITRILE	100	105	50		105	20	6
107-05-1	ALLYL CHLORIDE	10	9.63	1		96	20	4
123-91-1	1,4-DIOXANE	200	207	200		103	20	8
97-63-2	ETHYL METHACRYLATE	10	9.49	1		95	20	2
78-83-1	ISOBUTYL ALCOHOL	200	178	100		89	20	5
126-98-7	METHACRYLONITRILE	10	9.04	50	J	90	20	0
80-62-6	METHYL METHACRYLATE	10	9.3	5		93	20	1
107-12-0	PROPIONITRILE	100	100	10		100	20	2
126-99-8	CHLOROPRENE	10	8.7	1		87	20	4
60-29-7	DIETHYL ETHER	10	9.83	1		98	20	4
71-36-3	N-BUTANOL	500	460	100		92	20	2

Data Package ID: *VL1111251-1*

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1111251
Client Name: New Mexico Environment Department OB
ClientProject ID: LMW08 813-11.15.11(HWB Proj)PAR-all-files

Lab ID: VL111123-4LCSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/23/2011
Date Analyzed: 11/23/2011
Prep Method: SW5030C

Prep Batch: VL111123-4
QCBatchID: VL111123-4-1
Run ID: VL111123-4A
Cleanup: NONE
Basis: N/A
File Name: D35497

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD

Surrogate Recovery LCS/LCSD

CASNO	Target Analyte	Spike Added	LCS % Rec.	LCS Flag	LCSD % Rec.	LCSD Flag	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	25	103		101		78 - 129
1868-53-7	DIBROMOFLUOROMETHANE	25	98		99		80 - 124
2037-26-5	TOLUENE-D8	25	100		99		81 - 119

Data Package ID: *VL1111251-1*