GC/MS Semivolatiles

SIMPAH

Case Narrative

NMED Hazardous Waste Bureau

KAFB – BFF 1Q12

Work Order Number: 1202116

1. This report consists of 1 water sample. The sample was received cool and intact by ALS on 02/10/12.

2. The sample was prepared and analyzed according to SW-846, 3rd Edition procedures. Specifically, the water sample was extracted using continuous liquid-liquid extractors, according to SW-846 Method 3520C utilizing SOP 617 Revision 14.

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. The samples were analyzed using selective ion monitoring (SIM), in order to achieve lower reporting limits. 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 a limited number of major ions from the 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.

7. All method blank criteria were met.

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

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 sample was extracted and analyzed within the established holding times.

11. All surrogate recoveries were within acceptance criteria.

12. All internal standard recoveries were within acceptance criteria.

13. 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

20 Feb. 12
Date

Organics Final Data Reviewer

February 20, 2012
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: 1202116
Client Name: NMED Hazardous Waste Bureau
Client Project Name: KAFB - BFF 1Q12
Client Project Number:
Client PO Number: 20-667-00-16004

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
106029-A	1202116-1		WATER	09-Feb-12	11:25
106029-B	1202116-2		WATER	09-Feb-12	11:27
106029-C	1202116-3		WATER	09-Feb-12	11:29
106029-D	1202116-4		WATER	09-Feb-12	11:30
106029-E	1202116-5		WATER	09-Feb-12	11:31
106029-F	1202116-6		WATER	09-Feb-12	11:33
106029-G	1202116-7		WATER	09-Feb-12	11:35
106029-H	1202116-8		WATER	09-Feb-12	11:36
106029-I	1202116-9		WATER	09-Feb-12	11:37
106029-J	1202116-10		WATER	09-Feb-12	11:38

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER #	1202114		
PAGE	1 of 1		
DISPOSAL	By Lab or Return to Client		

SAMPLER	Salem	DATE	2-9-12
SITE ID	106029	TURNAROUND	Normal
EDD FORMAT			
PURCHASE ORDER			
BILL TO COMPANY	NMED/HWB		
INVOICE ATTN TO	Dave Cobrain		
ADDRESS	2905 Rodeo Park Dr		
CITY / STATE / ZIP	Santa Fe, NM 87505		
PHONE	505-476-6055		
FAX			
E-mail			

PROJECT NAME	KAFB BFF Q1/12	
PROJECT No.		
COMPANY NAME	NMED	
SEND REPORT TO	Brian Salem	
ADDRESS	5500 San Antonio NE	
CITY / STATE / ZIP	Albuquerque, NM 87109	
PHONE	505-222-9576	
FAX		
E-mail		

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	VOC 8260	EDB 8011	C-KO 8015	PAH 8270	DRO 8015	Anions 310.1	NH3 350.3	Sul Sulfide 353.3	Tot. Met. 376.1	Diss. Met 6010 TAL	6010 Fe+Mn only
1	106029-A	W	2-9-12	11:25	3	HCl		X										
2	106029-B			11:27	3	HCl			X									
3	106029-C			11:29	3	HCl				X								
4	106029-D			11:30	1	—					X							
5	106029-E			11:31	1	H_2SO_4						X						
6	106029-F			11:33	1	—							X					
7	106029-G			11:35	1	H_2SO_4								X				
8	106029-H			11:36	1	NaOH									X			
9	106029-I			11:37	1	HNO_3										X		
10	106029-J			11:38	1	HNO_3											X	

Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:

QC PACKAGE (check below)	
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	Brian Salem	Brian Salem	2-9-12	15:00
RECEIVED BY	C Trimble	C Trimble	2-10-12	0955
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

ALS Laboratory Group - Fort Collins

CONDITION OF SAMPLE UPON RECEIPT FORM

Client: NMED Workorder No: 1202116

Project Manager: LS Initials: CDT Date: 2-10-12

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)	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):	3.4							
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.

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

Project Manager Signature / Date: [signature] 2/13/12

*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 8768 4050 1528

0200 Form ID No.

1202116

FedEx Retrieval Cop

1 From

Date 2-9-12 Sender's FedEx Account Number

Sender's Name Brian Salem Phone 505 222-9576

Company NMED / HWB

Address 5500 San Antonio NE Dept./Floor/Suite/Room

City ABQ State NM ZIP 87109

2 Your Internal Billing Reference

3 To

Recipient's Name Lance Steere Phone 970 490-1511

Company ALS Labs

Address 225 Commerce Dr. 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 80524-2762

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.

8768 4050 1528

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs

For packages 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. ☐ 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

3.40

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]

Total Packages 1 Total Weight 49 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 Semi-volatiles

Method SW8270SIMPAHD

Method Blank

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1202116
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: EX120213-5MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 13-Feb-12
Date Analyzed: 14-Feb-12

Prep Batch: EX120213-5
QCBatchID: EX120213-5-1
Run ID: SV120214-1
Cleanup: NONE
Basis: N/A
File Name: N4233

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
91-20-3	NAPHTHALENE	1	0.1	0.1	0.033	U	
91-57-6	2-METHYLNAPHTHALENE	1	0.1	0.1	0.033	U	
90-12-0	1-METHYLNAPHTHALENE	1	0.1	0.1	0.033	U	
208-96-8	ACENAPHTHYLENE	1	0.1	0.1	0.033	U	
83-32-9	ACENAPHTHENE	1	0.1	0.1	0.033	U	
86-73-7	FLUORENE	1	0.1	0.1	0.033	U	
85-01-8	PHENANTHRENE	1	0.1	0.1	0.033	U	
120-12-7	ANTHRACENE	1	0.1	0.1	0.033	U	
206-44-0	FLUORANTHENE	1	0.1	0.1	0.033	U	
129-00-0	PYRENE	1	0.1	0.1	0.033	U	
56-55-3	BENZO(A)ANTHRACENE	1	0.1	0.1	0.033	U	
218-01-9	CHRYSENE	1	0.1	0.1	0.033	U	
205-99-2	BENZO(B)FLUORANTHENE	1	0.1	0.1	0.033	U	
207-08-9	BENZO(K)FLUORANTHENE	1	0.1	0.1	0.033	U	
50-32-8	BENZO(A)PYRENE	1	0.1	0.1	0.033	U	
193-39-5	INDENO(1,2,3-CD)PYRENE	1	0.1	0.1	0.033	U	
53-70-3	DIBENZO(A,H)ANTHRACENE	1	0.1	0.1	0.033	U	
191-24-2	BENZO(G,H,I)PERYLENE	1	0.1	0.1	0.033	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
321-60-8	2-FLUOROBIPHENYL	1.71		2	85	21 - 106
4165-60-0	NITROBENZENE-D5	1.82		2	91	34 - 111
1718-51-0	TERPHENYL-D14	1.73		2	87	33 - 111

Data Package ID: *SV1202116-1*

GC/MS Semi-volatiles

Method SW8270SIMPAHD

Sample Results

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1202116
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Field ID: 106029-D
Lab ID: 1202116-4

Analysis ReqCode: 156

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 09-Feb-12
Date Extracted: 13-Feb-12
Date Analyzed: 15-Feb-12
Prep Method: SW3520BN Rev

Prep Batch: EX120213-5
QCBatchID: EX120213-5-1
Run ID: SV120214-1
Cleanup: NONE
Basis: As Received
File Name: N4240

Sample Aliquot: 1020 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
91-20-3	NAPHTHALENE	1	0.076	0.098	0.033	J	
91-57-6	2-METHYLNAPHTHALENE	1	0.045	0.098	0.033	J	
90-12-0	1-METHYLNAPHTHALENE	1	0.044	0.098	0.033	J	
208-96-8	ACENAPHTHYLENE	1	0.098	0.098	0.033	U	
83-32-9	ACENAPHTHENE	1	0.098	0.098	0.033	U	
86-73-7	FLUORENE	1	0.098	0.098	0.033	U	
85-01-8	PHENANTHRENE	1	0.098	0.098	0.033	U	
120-12-7	ANTHRACENE	1	0.098	0.098	0.033	U	
206-44-0	FLUORANTHENE	1	0.098	0.098	0.033	U	
129-00-0	PYRENE	1	0.098	0.098	0.033	U	
56-55-3	BENZO(A)ANTHRACENE	1	0.098	0.098	0.033	U	
218-01-9	CHRYSENE	1	0.098	0.098	0.033	U	
205-99-2	BENZO(B)FLUORANTHENE	1	0.098	0.098	0.033	U	
207-08-9	BENZO(K)FLUORANTHENE	1	0.098	0.098	0.033	U	
50-32-8	BENZO(A)PYRENE	1	0.098	0.098	0.033	U	
193-39-5	INDENO(1,2,3-CD)PYRENE	1	0.098	0.098	0.033	U	
53-70-3	DIBENZO(A,H)ANTHRACENE	1	0.098	0.098	0.033	U	
191-24-2	BENZO(G,H,I)PERYLENE	1	0.098	0.098	0.033	U	

Data Package ID: *SV1202116-1*

GC/MS Semi-volatiles

Method SW8270SIMPAHD

Sample Results

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1202116
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Field ID: 106029-D
Lab ID: 1202116-4

Analysis ReqCode: 156

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 09-Feb-12
Date Extracted: 13-Feb-12
Date Analyzed: 15-Feb-12
Prep Method: SW3520BN Rev

Prep Batch: EX120213-5
QCBatchID: EX120213-5-1
Run ID: SV120214-1
Cleanup: NONE
Basis: As Received
File Name: N4240

Sample Aliquot: 1020 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

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
321-60-8	2-FLUOROBIPHENYL	1.63		1.96	83	21 - 106
4165-60-0	NITROBENZENE-D5	1.76		1.96	90	34 - 111
1718-51-0	TERPHENYL-D14	1.79		1.96	91	33 - 111

Data Package ID: *SV1202116-1*

GC/MS Semi-volatiles

Method SW8270SIMPAHD

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1202116
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: EX120213-5LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 02/13/2012
Date Analyzed: 02/14/2012
Prep Method: SW3520BNC

Prep Batch: EX120213-5
QCBatchID: EX120213-5-1
Run ID: SV120214-1
Cleanup: NONE
Basis: N/A
File Name: N4234

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
91-20-3	NAPHTHALENE	2	1.65	0.1		82	39 - 102%
91-57-6	2-METHYLNAPHTHALENE	2	1.61	0.1		81	46 - 104%
208-96-8	ACENAPHTHYLENE	2	1.58	0.1		79	50 - 107%
83-32-9	ACENAPHTHENE	2	1.61	0.1		81	47 - 108%
86-73-7	FLUORENE	2	1.8	0.1		90	50 - 112%
85-01-8	PHENANTHRENE	2	1.77	0.1		88	51 - 117%
120-12-7	ANTHRACENE	2	1.51	0.1		76	54 - 112%
206-44-0	FLUORANTHENE	2	1.65	0.1		82	54 - 116%
129-00-0	PYRENE	2	1.77	0.1		88	49 - 128%
56-55-3	BENZO(A)ANTHRACENE	2	1.78	0.1		89	56 - 109%
218-01-9	CHRYSENE	2	1.56	0.1		78	55 - 109%
205-99-2	BENZO(B)FLUORANTHENE	2	1.7	0.1		85	46 - 118%
207-08-9	BENZO(K)FLUORANTHENE	2	1.7	0.1		85	45 - 124%
50-32-8	BENZO(A)PYRENE	2	1.81	0.1		90	53 - 110%
193-39-5	INDENO(1,2,3-CD)PYRENE	2	2	0.1		100	43 - 125%
53-70-3	DIBENZO(A,H)ANTHRACENE	2	2.03	0.1		101	42 - 127%
191-24-2	BENZO(G,H,I)PERYLENE	2	2.03	0.1		101	38 - 123%

Data Package ID: *SV1202116-1*

GC/MS Semi-volatiles

Method SW8270SIMPAHD

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1202116
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: EX120213-5LCSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 02/13/2012
Date Analyzed: 02/14/2012
Prep Method: SW3520BNC

Prep Batch: EX120213-5
QCBatchID: EX120213-5-1
Run ID: SV120214-1
Cleanup: NONE
Basis: N/A
File Name: N4235

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
91-20-3	NAPHTHALENE	2	1.68	0.1		84	20	2
91-57-6	2-METHYLNAPHTHALENE	2	1.61	0.1		81	20	0
208-96-8	ACENAPHTHYLENE	2	1.62	0.1		81	20	3
83-32-9	ACENAPHTHENE	2	1.63	0.1		82	20	1
86-73-7	FLUORENE	2	1.86	0.1		93	20	4
85-01-8	PHENANTHRENE	2	1.82	0.1		91	20	3
120-12-7	ANTHRACENE	2	1.55	0.1		77	20	2
206-44-0	FLUORANTHENE	2	1.79	0.1		90	20	8
129-00-0	PYRENE	2	1.81	0.1		90	20	2
56-55-3	BENZO(A)ANTHRACENE	2	1.81	0.1		91	20	2
218-01-9	CHRYSENE	2	1.53	0.1		77	20	2
205-99-2	BENZO(B)FLUORANTHENE	2	1.68	0.1		84	20	1
207-08-9	BENZO(K)FLUORANTHENE	2	1.88	0.1		94	20	10
50-32-8	BENZO(A)PYRENE	2	1.85	0.1		93	20	2
193-39-5	INDENO(1,2,3-CD)PYRENE	2	2.03	0.1		102	20	2
53-70-3	DIBENZO(A,H)ANTHRACENE	2	2.04	0.1		102	20	1
191-24-2	BENZO(G,H,I)PERYLENE	2	2.04	0.1		102	20	1

Surrogate Recovery LCS/LCSD

CASNO	Target Analyte	Spike Added	LCS % Rec.	LCS Flag	LCSD % Rec.	LCSD Flag	Control Limits
321-60-8	2-FLUOROBIPHENYL	2	84		87		21 - 106
4165-60-0	NITROBENZENE-D5	2	91		93		34 - 111
1718-51-0	TERPHENYL-D14	2	87		86		33 - 111

Data Package ID: *SV1202116-1*