



# GC/MS Semivolatiles

## SIMPAH

### Case Narrative

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## **NMED Hazardous Waste Bureau**

### **KAFB – BFF 1Q12**

Work Order Number: 1202056

1. This report consists of 1 water sample. The sample was received cool and intact by ALS on 02/07/12.
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. 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  $\leq 20\%$ . If linear or higher order regression calibrations were used in the initial calibration, the coefficient of determination ( $r^2$ )  $\geq 0.99$ .
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  $\leq 30\%$ .
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  
Emily Hellickson  
Organics Primary Data Reviewer

13 Feb. 12  
Date

Eve Bayless  
Organics Final Data Reviewer

2/13/12  
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

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**OrderNum:** 1202056

**Client Name:** NMED Hazardous Waste Bureau

**Client Project Name:** KAFB - BFF 1Q12

**Client Project Number:**

**Client PO Number:** 20-667-00-16004

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Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
106070-A	1202056-1		WATER	06-Feb-12	11:01
106070-B	1202056-2		WATER	06-Feb-12	11:04
106070-C	1202056-3		WATER	06-Feb-12	11:06
106070-D	1202056-4		WATER	06-Feb-12	11:14
106070-E	1202056-5		WATER	06-Feb-12	11:17
106070-F	1202056-6		WATER	06-Feb-12	11:20
106070-G	1202056-7		WATER	06-Feb-12	11:23
106070-H	1202056-8		WATER	06-Feb-12	11:26
106070-I	1202056-9		WATER	06-Feb-12	11:29
106070-J	1202056-10		WATER	06-Feb-12	11:30



# 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 2028

WORKORDER #

1202056

PROJECT NAME	PROJECT No.	SAMPLER	SITE ID	DATE	TURNAROUND	DISPOSAL	PAGE	By Lab or	Return to Client			
KAFB BFF 9/12		Salem	106070	2-6-12	2-6-12	3503, 3533	1	1	1			
COMPANY NAME		NMED		NMED / HWB		376.1		6010, Fe+Mn only				
SEND REPORT TO		Brian Salem		Diver Coburn		376.1		6010, Fe+Mn only				
ADDRESS		5500 San Antonio Ave		2095 Kookoo Peak Dr		376.1		6010, Fe+Mn only				
CITY/STATE/ZIP		Albuq, NM 87009		Santa Fe, NM 87505		376.1		6010, Fe+Mn only				
PHONE		505-222-9576		505-476-6055		376.1		6010, Fe+Mn only				
FAX						376.1		6010, Fe+Mn only				
E-MAIL						376.1		6010, Fe+Mn only				
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	DATE	SIGNATURE	PRINTED NAME	DATE	TIME
1	106070-A	W	2-6-12	11:01	3	HCl		8260				
2	106070-B			11:04	3	HCl		8015				
3	106070-C			11:06	3	HCl		8015				
4	106070-D		11:14	11:14	1	-		8015				
5	106070-E		11:20	11:20	1	H2O4		8015				
6	106070-F		11:20	11:20	1	-		8015				
7	106070-G			11:23	1	H2O4		8015				
8	106070-H			11:26	1	Zn/NaOH		8015				
9	106070-I			11:29	1	HNO3		8015				
10	106070-J			11:30	1	HNO3		8015				

\*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: 5 of 12

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
	Brian Salem		Brian Salem		Brian Salem
	Lawrence Schmitz		Lawrence Schmitz		Lawrence Schmitz

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



CONDITION OF SAMPLE UPON RECEIPT FORM

Client: NIMED  
Project Manager: LRS

Workorder No: 1202056  
Initials: LAS Date: 2/7/12

1. Does this project require any <b>special handling</b> in addition to standard Paragon procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on <b>shipping containers</b> intact?	NONE	<input checked="" type="radio"/> YES	NO
3. Are Custody seals on <b>sample containers</b> intact?	<input checked="" type="radio"/> NONE	YES	NO
4. Is there a <b>COC (Chain-of-Custody)</b> present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the <b>COC and bottle labels complete and legible</b> ?		<input checked="" type="radio"/> YES	NO
6. Is the <b>COC in agreement</b> with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	NO
7. Were <b>airbills / shipping documents</b> present and/or removable?	DROP OFF	<input checked="" type="radio"/> YES	NO
8. Are all <b>aqueous samples requiring preservation preserved correctly? (excluding volatiles)</b>	N/A	<input checked="" type="radio"/> YES	NO
9. Are all aqueous <b>non-preserved samples pH 4-9</b> ?	N/A	<input checked="" type="radio"/> YES	NO
10. Is there <b>sufficient sample</b> for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the <b>proper containers</b> for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within <b>holding times</b> for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received <b>intact</b> ? (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring <b>no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon)</b> headspace free? <b>Size of bubble:</b> ___ < green pea ___ > green pea	N/A	<input checked="" type="radio"/> YES	NO
15. Do perchlorate LCMS-MS samples <b>have headspace</b> ? (at least 1/3 of container required)	<input checked="" type="radio"/> N/A	YES	NO
16. Were samples checked for and free from the presence of <b>residual chlorine</b> ? (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	<input checked="" type="radio"/> N/A	YES	NO
17. Were the samples <b>shipped on ice</b> ?		<input checked="" type="radio"/> YES	NO
18. Were cooler temperatures measured at 0.1-6.0°C? <b>IR gun used*:</b> <input checked="" type="radio"/> #2 <input type="radio"/> #4		RAD ONLY	<input checked="" type="radio"/> YES <input type="radio"/> NO
Cooler #: <u>1</u>			
Temperature (°C): <u>1.4</u>			
No. of custody seals on cooler: <u>2</u>			
External µR/hr reading: <u>15</u>			
Background µR/hr reading: <u>13</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> 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: [Signature] Date/Time: \_\_\_\_\_

**Project Manager Signature / Date:** [Signature] 2/7/12

\*IR Gun #2: Oakton, SN 29922500201-0066  
Form 201r22.xls (6/1/09)

\*IR Gun #4: Oakton, SN 2372220101-0002

**1 From** Date 2/6/12 Sender's FedEx Account Number

Sender's Name Brian Salem Phone 505 222-9576

Company MEMO / HWB

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

City Albuquerque State NM ZIP 87059

**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

Address 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.

**4 Express Package Service** \* To most locations.  
NOTE: Service order has changed. Please select carefully.

- 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

Cargo Aircraft Only

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

**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

Total Packages 1 Total Weight 19.25 lbs. Credit Card Auth. 612

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



8768 4050 1517

# GC/MS Semi-volatiles

Method SW8270SIMPAHD

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1202056

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q12

Lab ID: EX120207-5MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 07-Feb-12

Date Analyzed: 08-Feb-12

Prep Batch: EX120207-5

QCBatchID: EX120207-5-1

Run ID: SV120208-2

Cleanup: NONE

Basis: N/A

File Name: P14500

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	1.38		2	69	21 - 106
4165-60-0	NITROBENZENE-D5	1.53		2	76	34 - 111
1718-51-0	TERPHENYL-D14	1.68		2	84	33 - 111

Data Package ID: SV1202056-1

Date Printed: Monday, February 13, 2012

ALS Environmental -- FC

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LIMS Version: 6.560

# GC/MS Semi-volatiles

## Method SW8270SIMPAHD

### Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1202056

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q12

Field ID: 106070-D

Lab ID: 1202056-4

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 06-Feb-12

Date Extracted: 07-Feb-12

Date Analyzed: 08-Feb-12

Prep Method: SW3520BN Rev

Prep Batch: EX120207-5

QC Batch ID: EX120207-5-1

Run ID: SV120208-2

Cleanup: NONE

Basis: As Received

File Name: P14503

Sample Aliquot: 1020 ml

Final Volume: 1 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 156

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
91-20-3	NAPHTHALENE	1	0.055	0.098	0.033	J	
91-57-6	2-METHYLNAPHTHALENE	1	0.11	0.098	0.033		
90-12-0	1-METHYLNAPHTHALENE	1	0.36	0.098	0.033		
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: SV1202056-1

Date Printed: Monday, February 13, 2012

ALS Environmental -- FC

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LIMS Version: 6.560

# GC/MS Semi-volatiles

## Method SW8270SIMPAHD

### Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1202056

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q12

Field ID:	106070-D
Lab ID:	1202056-4

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 06-Feb-12

Date Extracted: 07-Feb-12

Date Analyzed: 08-Feb-12

Prep Method: SW3520BN Rev

Prep Batch: EX120207-5

QCBatchID: EX120207-5-1

Run ID: SV120208-2

Cleanup: NONE

Basis: As Received

File Name: P14503

Sample Aliquot: 1020 ml

Final Volume: 1 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 156

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
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### Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
321-60-8	2-FLUOROBIPHENYL	1.35		1.96	69	21 - 106
4165-60-0	NITROBENZENE-D5	1.76		1.96	90	34 - 111
1718-51-0	TERPHENYL-D14	1.55		1.96	79	33 - 111

Data Package ID: SV1202056-1

# GC/MS Semi-volatiles

## Method SW8270SIMPAMD

### Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1202056

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q12

Lab ID: EX120207-5LCS

Sample Matrix: WATER  
% Moisture: N/A  
Date Collected: N/A  
Date Extracted: 02/07/2012  
Date Analyzed: 02/08/2012  
Prep Method: SW3520BNC

Prep Batch: EX120207-5  
QCBatchID: EX120207-5-1  
Run ID: SV120208-2  
Cleanup: NONE  
Basis: N/A  
File Name: P14501

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	1.35	0.1		68	39 - 102%
91-57-6	2-METHYLNAPHTHALENE	2	1.55	0.1		78	46 - 104%
208-96-8	ACENAPHTHYLENE	2	1.48	0.1		74	50 - 107%
83-32-9	ACENAPHTHENE	2	1.45	0.1		72	47 - 108%
86-73-7	FLUORENE	2	1.45	0.1		73	50 - 112%
85-01-8	PHENANTHRENE	2	1.5	0.1		75	51 - 117%
120-12-7	ANTHRACENE	2	1.53	0.1		76	54 - 112%
206-44-0	FLUORANTHENE	2	1.5	0.1		75	54 - 116%
129-00-0	PYRENE	2	1.57	0.1		78	49 - 128%
56-55-3	BENZO(A)ANTHRACENE	2	1.81	0.1		90	56 - 109%
218-01-9	CHRYSENE	2	1.72	0.1		86	55 - 109%
205-99-2	BENZO(B)FLUORANTHENE	2	2	0.1		100	46 - 118%
207-08-9	BENZO(K)FLUORANTHENE	2	1.87	0.1		93	45 - 124%
50-32-8	BENZO(A)PYRENE	2	1.89	0.1		95	53 - 110%
193-39-5	INDENO(1,2,3-CD)PYRENE	2	1.88	0.1		94	43 - 125%
53-70-3	DIBENZO(A,H)ANTHRACENE	2	1.88	0.1		94	42 - 127%
191-24-2	BENZO(G,H,I)PERYLENE	2	1.87	0.1		93	38 - 123%

Data Package ID: SV1202056-1

Date Printed: Monday, February 13, 2012

ALS Environmental -- FC

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LIMS Version: 6.560

# GC/MS Semi-volatiles

## Method SW8270SIMPAMD

### Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1202056

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q12

Lab ID: EX120207-5LCSD

Sample Matrix: WATER  
 % Moisture: N/A  
 Date Collected: N/A  
 Date Extracted: 02/07/2012  
 Date Analyzed: 02/08/2012  
 Prep Method: SW3520BNC

Prep Batch: EX120207-5  
 QCBatchID: EX120207-5-1  
 Run ID: SV120208-2  
 Cleanup: NONE  
 Basis: N/A  
 File Name: P14502

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	1.36	0.1		68	20	0
91-57-6	2-METHYLNAPHTHALENE	2	1.54	0.1		77	20	1
208-96-8	ACENAPHTHYLENE	2	1.46	0.1		73	20	1
83-32-9	ACENAPHTHENE	2	1.43	0.1		71	20	1
86-73-7	FLUORENE	2	1.42	0.1		71	20	3
85-01-8	PHENANTHRENE	2	1.43	0.1		71	20	5
120-12-7	ANTHRACENE	2	1.47	0.1		74	20	4
206-44-0	FLUORANTHENE	2	1.42	0.1		71	20	6
129-00-0	PYRENE	2	1.52	0.1		76	20	3
56-55-3	BENZO(A)ANTHRACENE	2	1.74	0.1		87	20	3
218-01-9	CHRYSENE	2	1.71	0.1		85	20	1
205-99-2	BENZO(B)FLUORANTHENE	2	1.94	0.1		97	20	3
207-08-9	BENZO(K)FLUORANTHENE	2	1.81	0.1		91	20	3
50-32-8	BENZO(A)PYRENE	2	1.82	0.1		91	20	4
193-39-5	INDENO(1,2,3-CD)PYRENE	2	1.8	0.1		90	20	5
53-70-3	DIBENZO(A,H)ANTHRACENE	2	1.78	0.1		89	20	6
191-24-2	BENZO(G,H,I)PERYLENE	2	1.78	0.1		89	20	5

### 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	71		70		21 - 106
4165-60-0	NITROBENZENE-D5	2	75		76		34 - 111
1718-51-0	TERPHENYL-D14	2	85		84		33 - 111

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