

GC/MS Semivolatiles Case Narrative

Colorado Oil & Gas Conservation Commission

Complaint 200339399

Work Order Number: 1202195

1. This report consists of 1 water sample. The sample was received cool and intact by ALS on 02/16/12.
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) ≥ 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 with the exceptions of bis(2-chloroisopropyl)ether and 2-nitroaniline and which were out high. These compounds were not detected in the associated sample.
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

24 Feb. 12

Date

Eric Bayless

Organics Final Data Reviewer

2/27/12

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

OrderNum: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

Client Project Name: Complaint 200339399

Client Project Number:

Client PO Number: PHA 12-10

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
705325 Nosaka WW	1202195-1		WATER	14-Feb-12	14:17

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 20278

PROJECT NAME		PROJECT NO.		COMPANY NAME		SEND REPORT TO		ADDRESS		CITY / STATE / ZIP		PHONE		FAX		E-MAIL	
Complaints 200339399		200339402		Peter Gintantus		PO Box 108		Trinidad CO 81062		719-846-3091						peter.gintantus@state.cas	
Lab ID		Field ID		Matrix		Sample Date		Sample Time		Bottles		Pres		QC			
707183 Steiner WW		Complaint 200339402		W		14Feb		14:47		3		1		X			
Trip Blank				W		14Feb		06:30		2		1		X			
707183 Steiner WW				W		14Feb		14:47		1		3		X			
707183 Steiner WW				W		14Feb		14:47		6		8		X			
Complaint 200339399				W		14Feb											
705325 Nosaka WW				W		14Feb		14:17		3		1		Y			
705325 Nosaka WW				W		14Feb		14:17		1		3		X			
705325 Nosaka WW				W		14Feb		14:17		6		8		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
 or metals or anions, please detail analytes below.

COMMENTS:	
Dissolved metals = Filter + preserve	
up to 100 mg/l	
Alloys = Br, Cl, F, NO ₃ , NO ₂ , PO ₄ , SO ₄	
200339402-11, Br, 200339402	
200339402-16, Na ₂ SO ₄ , Th-200, B	

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

RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY	
Peter Gintantus		Peter Gintantus		Peter Gintantus		Peter Gintantus		Peter Gintantus		Peter Gintantus	
15 Feb 2012		15 Feb 2012		15 Feb 2012		15 Feb 2012		15 Feb 2012		15 Feb 2012	
14:15		14:15		14:15		14:15		14:15		14:15	

WORKORDER #		PAGE		of	
1202195		1		1	
DISPOSAL		15 Feb 2012		14 days	
RETURN TO CLIENT		15 Feb 2012		14 days	



CONDITION OF SAMPLE UPON RECEIPT FORM

Client: COGCC
 Project Manager: ARW

Workorder No: 1202195
 Initials: LAS Date: 2/16/12

1. Does this project require any special handling in addition to standard Paragon procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	NONE	<input checked="" type="radio"/> YES	NO
3. Are Custody seals on sample containers intact?	<input checked="" type="radio"/> NONE	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the COC and bottle labels complete and legible ?		<input checked="" type="radio"/> YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	<input checked="" type="radio"/> YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	<input checked="" type="radio"/> YES	NO
9. Are all aqueous non-preserved samples pH 4-9 ?	N/A	<input checked="" type="radio"/> YES	NO
10. Is there sufficient sample for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received intact ? (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: <u>X</u> < green pea <u> </u> > green pea	N/A	YES	<input checked="" type="radio"/> NO *
15. Do perchlorate LCMS-MS samples have headspace ? (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 residual chlorine ? (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 shipped on ice ?		<input checked="" type="radio"/> YES	NO
18. Were cooler temperatures measured at 0.1-6.0°C?	IR gun used*: <u>#2</u> #4	RAD ONLY	<input checked="" type="radio"/> YES
Cooler #: <u>1</u>			
Temperature (°C): <u>1.6</u>			
No. of custody seals on cooler: <u>1</u>			
External µR/hr reading: <u>14</u>			
Background µR/hr reading: <u>11</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.

*14 1202195-1-6(705325 Ndsqka) for DISS. Gases arrived with headspace ≤ pea-size.

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

Project Manager Signature / Date: [Signature] 2/16/12

1202195

From: (719) 846-3091
Peter Gintautas
Colo. Oil & Gas Cons. Comm.
213 Conundrum RD
Trinidad, CO 81082

Origin ID: PUBA



J1210112190225

SHIP TO: (970) 490-1511

Amy Wolf
ALS Laboratory Group
225 COMMERCE DR

FORT COLLINS, CO 80524

BILL SENDER

Ship Date: 15FEB12
ActWgt: 34.0 LB
CAD: 4076443/NET3250

Delivery Address Bar Code



Ref # Complaint 200339399
Invoice #
PO #
Dept #

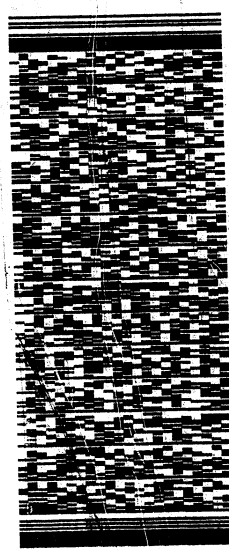
14

THU - 16 FEB A2
PRIORITY OVERNIGHT

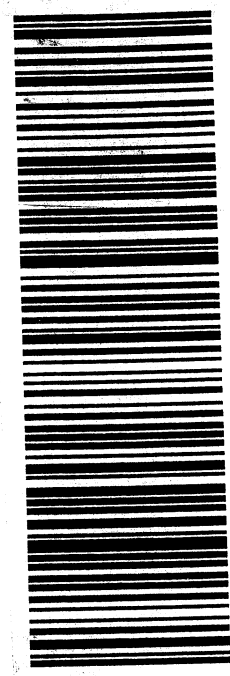
TRK# 7932 3213 0507
0201

80524
CO-US
DEN

72 FTCA



1.9



512G18F58A278

GC/MS Semi-volatiles

Method SW8270D

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: EX120216-9MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 16-Feb-12

Date Analyzed: 20-Feb-12

Prep Method: SW3520 Rev C

Prep Batch: EX120216-9

QCBatchID: EX120216-9-1

Run ID: SV120220-2

Cleanup: NONE

Basis: N/A

File Name: P14576

Sample Aliquot: 1000 ml

Final Volume: 1 ml

Result Units: UG/L

Clean DF: 1

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

Data Package ID: SV1202195-1

Date Printed: Friday, February 24, 2012

ALS Environmental -- FC

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LIMS Version: 6.566

GC/MS Semi-volatiles

Method SW8270D

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: EX120216-9MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 16-Feb-12

Date Analyzed: 20-Feb-12

Prep Method: SW3520 Rev C

Prep Batch: EX120216-9

QCBatchID: EX120216-9-2

Run ID: SV120220-2

Cleanup: NONE

Basis: N/A

File Name: P14576

Sample Aliquot: 1000 ml

Final Volume: 1 ml

Result Units: UG/L

Clean DF: 1

59-50-7	4-CHLORO-3-METHYLPHENOL	1	10	10	U	
91-57-6	2-METHYLNAPHTHALENE	1	10	10	U	
90-12-0	1-METHYLNAPHTHALENE	1	10	10	U	
77-47-4	HEXACHLOROCYCLOPENTADIENE	1	10	10	U	
88-06-2	2,4,6-TRICHLOROPHENOL	1	10	10	U	
95-95-4	2,4,5-TRICHLOROPHENOL	1	10	10	U	
91-58-7	2-CHLORONAPHTHALENE	1	10	10	U	
88-74-4	2-NITROANILINE	1	20	20	U	
131-11-3	DIMETHYL PHTHALATE	1	10	10	U	
606-20-2	2,6-DINITROTOLUENE	1	10	10	U	
208-96-8	ACENAPHTHYLENE	1	10	10	U	
99-09-2	3-NITROANILINE	1	20	20	U	
83-32-9	ACENAPHTHENE	1	10	10	U	
51-28-5	2,4-DINITROPHENOL	1	20	20	U	
100-02-7	4-NITROPHENOL	1	20	20	U	
132-64-9	DIBENZOFURAN	1	10	10	U	
121-14-2	2,4-DINITROTOLUENE	1	10	10	U	
84-66-2	DIETHYL PHTHALATE	1	10	10	U	
86-73-7	FLUORENE	1	10	10	U	
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	1	10	10	U	
100-01-6	4-NITROANILINE	1	20	20	U	
103-33-3	AZOBENZENE	1	10	10	U	
534-52-1	4,6-DINITRO-2-METHYLPHENOL	1	20	20	U	
86-30-6	N-NITROSODIPHENYLAMINE	1	10	10	U	
101-55-3	4-BROMOPHENYL PHENYL ETHER	1	10	10	U	
118-74-1	HEXACHLOROBENZENE	1	10	10	U	
58-90-2	2,3,4,6-TETRACHLOROPHENOL	1	10	10	U	
87-86-5	PENTACHLOROPHENOL	1	20	20	U	
85-01-8	PHENANTHRENE	1	10	10	U	

Data Package ID: SV1202195-1

Date Printed: Friday, February 24, 2012

ALS Environmental -- FC

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LIMS Version: 6.566

GC/MS Semi-volatiles

Method SW8270D

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: EX120216-9MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 16-Feb-12

Date Analyzed: 20-Feb-12

Prep Method: SW3520 Rev C

Prep Batch: EX120216-9

QCBatchID: EX120216-9-2

Run ID: SV120220-2

Cleanup: NONE

Basis: N/A

File Name: P14576

Sample Aliquot: 1000 ml

Final Volume: 1 ml

Result Units: UG/L

Clean DF: 1

120-12-7	ANTHRACENE	1	10	10	U	
86-74-8	CARBAZOLE	1	10	10	U	
84-74-2	DI-N-BUTYL PHTHALATE	1	10	10	U	
206-44-0	FLUORANTHENE	1	10	10	U	
129-00-0	PYRENE	1	10	10	U	
85-68-7	BUTYL BENZYL PHTHALATE	1	10	10	U	
56-55-3	BENZO(A)ANTHRACENE	1	10	10	U	
91-94-1	3,3'-DICHLOROBENZIDINE	1	10	10	U	
218-01-9	CHRYSENE	1	10	10	U	
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	1	10	10	U	
117-84-0	DI-N-OCTYL PHTHALATE	1	10	10	U	
205-99-2	BENZO(B)FLUORANTHENE	1	10	10	U	
207-08-9	BENZO(K)FLUORANTHENE	1	10	10	U	
50-32-8	BENZO(A)PYRENE	1	10	10	U	
193-39-5	INDENO(1,2,3-CD)PYRENE	1	10	10	U	
53-70-3	DIBENZO(A,H)ANTHRACENE	1	10	10	U	
191-24-2	BENZO(G,H,I)PERYLENE	1	10	10	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
118-79-6	2,4,6-TRIBROMOPHENOL	52.4		75	70	42 - 117
321-60-8	2-FLUOROBIPHENYL	41.9		50	84	55 - 108
367-12-4	2-FLUOROPHENOL	56.3		75	75	46 - 105
4165-60-0	NITROBENZENE-D5	43.4		50	87	53 - 111
4165-62-2	PHENOL-D5	58.1		75	77	50 - 109
1718-51-0	TERPHENYL-D14	43.4		50	87	34 - 139

Data Package ID: SV1202195-1

Date Printed: Friday, February 24, 2012

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GC/MS Semi-volatiles

Method SW8270

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Field ID:	
Lab ID:	EX120216-9MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 16-Feb-12

Date Analyzed: 20-Feb-12

Prep Batch: EX120216-9

QCBatchID: EX120216-9-2

Run ID: SV120220-2

Cleanup: NONE

Basis: As Received

Sample Aliquot: 1000 ml

Final Volume: 1 ml

Clean DF: 1

File Name: P14576

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

Data Package ID: SV1202195-1

Date Printed: Friday, February 24, 2012

ALS Environmental -- FC

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GC/MS Semi-volatiles

Method SW8270 Revision D

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Field ID:	705325 Nosaka WW
Lab ID:	1202195-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 14-Feb-12

Date Extracted: 16-Feb-12

Date Analyzed: 20-Feb-12

Prep Method: SW3520 Rev C

Prep Batch: EX120216-9

QCBatchID: EX120216-9-1

Run ID: SV120220-2

Cleanup: NONE

Basis: As Received

File Name: P14580

Analyst: Eric Bayless

Sample Aliquot: 1045 ML

Final Volume: 1 ML

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
123-91-1	1,4-DIOXANE	1	9.6	9.6	U	
110-86-1	PYRIDINE	1	9.6	9.6	U	
62-75-9	N-NITROSODIMETHYLAMINE	1	9.6	9.6	U	
62-53-3	ANILINE	1	9.6	9.6	U	
108-95-2	PHENOL	1	9.6	9.6	U	
111-44-4	BIS(2-CHLOROETHYL)ETHER	1	9.6	9.6	U	
95-57-8	2-CHLOROPHENOL	1	9.6	9.6	U	
541-73-1	1,3-DICHLOROBENZENE	1	9.6	9.6	U	
106-46-7	1,4-DICHLOROBENZENE	1	9.6	9.6	U	
95-50-1	1,2-DICHLOROBENZENE	1	9.6	9.6	U	
100-51-6	BENZYL ALCOHOL	1	9.6	9.6	U	
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	1	9.6	9.6	U	
95-48-7	2-METHYLPHENOL	1	9.6	9.6	U	
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	1	9.6	9.6	U	
108-39-4	3+4-METHYLPHENOL	1	9.6	9.6	U	
67-72-1	HEXACHLOROETHANE	1	9.6	9.6	U	
98-95-3	NITROBENZENE	1	9.6	9.6	U	
78-59-1	ISOPHORONE	1	9.6	9.6	U	
88-75-5	2-NITROPHENOL	1	9.6	9.6	U	
105-67-9	2,4-DIMETHYLPHENOL	1	9.6	9.6	U	
111-91-1	BIS(2-CHLOROETHOXY)METHANE	1	9.6	9.6	U	
120-83-2	2,4-DICHLOROPHENOL	1	9.6	9.6	U	
65-85-0	BENZOIC ACID	1	48	48	U	
120-82-1	1,2,4-TRICHLOROBENZENE	1	9.6	9.6	U	
91-20-3	NAPHTHALENE	1	9.6	9.6	U	
106-47-8	4-CHLOROANILINE	1	9.6	9.6	U	
87-68-3	HEXACHLOROBUTADIENE	1	9.6	9.6	U	

Data Package ID: SV1202195-1

Date Printed: Friday, February 24, 2012

ALS Environmental -- FC

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LIMS Version: 6.566

GC/MS Semi-volatiles

Method SW8270 Revision D

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Field ID:	705325 Nosaka WW
Lab ID:	1202195-1

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 14-Feb-12
Date Extracted: 16-Feb-12
Date Analyzed: 20-Feb-12
Prep Method: SW3520 Rev C

Prep Batch: EX120216-9
QCBatchID: EX120216-9-2
Run ID: SV120220-2
Cleanup: NONE
Basis: As Received
File Name: P14580

Analyst: Eric Bayless
Sample Aliquot: 1045 ML
Final Volume: 1 ML
Result Units: UG/L
Clean DF: 1

59-50-7	4-CHLORO-3-METHYLPHENOL	1	9.6	9.6	U	
91-57-6	2-METHYLNAPHTHALENE	1	9.6	9.6	U	
90-12-0	1-METHYLNAPHTHALENE	1	9.6	9.6	U	
77-47-4	HEXACHLOROCYCLOPENTADIENE	1	9.6	9.6	U	
88-06-2	2,4,6-TRICHLOROPHENOL	1	9.6	9.6	U	
95-95-4	2,4,5-TRICHLOROPHENOL	1	9.6	9.6	U	
91-58-7	2-CHLORONAPHTHALENE	1	9.6	9.6	U	
88-74-4	2-NITROANILINE	1	19	19	U	
131-11-3	DIMETHYL PHTHALATE	1	9.6	9.6	U	
606-20-2	2,6-DINITROTOLUENE	1	9.6	9.6	U	
208-96-8	ACENAPHTHYLENE	1	9.6	9.6	U	
99-09-2	3-NITROANILINE	1	19	19	U	
83-32-9	ACENAPHTHENE	1	9.6	9.6	U	
51-28-5	2,4-DINITROPHENOL	1	19	19	U	
100-02-7	4-NITROPHENOL	1	19	19	U	
132-64-9	DIBENZOFURAN	1	9.6	9.6	U	
121-14-2	2,4-DINITROTOLUENE	1	9.6	9.6	U	
84-66-2	DIETHYL PHTHALATE	1	9.6	9.6	U	
86-73-7	FLUORENE	1	9.6	9.6	U	
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	1	9.6	9.6	U	
100-01-6	4-NITROANILINE	1	19	19	U	
103-33-3	AZOBENZENE	1	9.6	9.6	U	
534-52-1	4,6-DINITRO-2-METHYLPHENOL	1	19	19	U	
86-30-6	N-NITROSODIPHENYLAMINE	1	9.6	9.6	U	
101-55-3	4-BROMOPHENYL PHENYL ETHER	1	9.6	9.6	U	
118-74-1	HEXACHLOROBENZENE	1	9.6	9.6	U	
58-90-2	2,3,4,6-TETRACHLOROPHENOL	1	9.6	9.6	U	
87-86-5	PENTACHLOROPHENOL	1	19	19	U	
85-01-8	PHENANTHRENE	1	9.6	9.6	U	

Data Package ID: SV1202195-1

GC/MS Semi-volatiles

Method SW8270 Revision D

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Field ID:	705325 Nosaka WW
Lab ID:	1202195-1

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 14-Feb-12
Date Extracted: 16-Feb-12
Date Analyzed: 20-Feb-12
Prep Method: SW3520 Rev C

Prep Batch: EX120216-9
QCBatchID: EX120216-9-2
Run ID: SV120220-2
Cleanup: NONE
Basis: As Received
File Name: P14580

Analyst: Eric Bayless
Sample Aliquot: 1045 ML
Final Volume: 1 ML
Result Units: UG/L
Clean DF: 1

120-12-7	ANTHRACENE	1	9.6	9.6	U	
86-74-8	CARBAZOLE	1	9.6	9.6	U	
84-74-2	DI-N-BUTYL PHTHALATE	1	9.6	9.6	U	
206-44-0	FLUORANTHENE	1	9.6	9.6	U	
129-00-0	PYRENE	1	9.6	9.6	U	
85-68-7	BUTYL BENZYL PHTHALATE	1	9.6	9.6	U	
56-55-3	BENZO(A)ANTHRACENE	1	9.6	9.6	U	
91-94-1	3,3'-DICHLOROBENZIDINE	1	9.6	9.6	U	
218-01-9	CHRYSENE	1	9.6	9.6	U	
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	1	9.6	9.6	U	
117-84-0	DI-N-OCTYL PHTHALATE	1	9.6	9.6	U	
205-99-2	BENZO(B)FLUORANTHENE	1	9.6	9.6	U	
207-08-9	BENZO(K)FLUORANTHENE	1	9.6	9.6	U	
50-32-8	BENZO(A)PYRENE	1	9.6	9.6	U	
193-39-5	INDENO(1,2,3-CD)PYRENE	1	9.6	9.6	U	
53-70-3	DIBENZO(A,H)ANTHRACENE	1	9.6	9.6	U	
191-24-2	BENZO(G,H,I)PERYLENE	1	9.6	9.6	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
118-79-6	2,4,6-TRIBROMOPHENOL	51.4		71.8	72	42 - 117
321-60-8	2-FLUOROBIPHENYL	43.7		49.8	88	55 - 108
367-12-4	2-FLUOROPHENOL	60.7		71.8	85	46 - 105
4165-60-0	NITROBENZENE-D5	47.4		49.8	95	53 - 111
4165-62-2	PHENOL-D5	60.8		71.8	85	50 - 109
1718-51-0	TERPHENYL-D14	43.3		49.8	87	34 - 139

Data Package ID: SV1202195-1

GC/MS Semi-volatiles

Method SW8270

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Field ID:	705325 Nosaka WW
Lab ID:	1202195-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 14-Feb-12

Date Extracted: 16-Feb-12

Date Analyzed: 20-Feb-12

Prep Batch: EX120216-9

QCBatchID: EX120216-9-2

Run ID: SV120220-2

Cleanup: NONE

Basis: As Received

Sample Aliquot: 1045 ml

Final Volume: 1 ml

Clean DF: 1

File Name: P14580

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

Data Package ID: SV1202195-1

GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: EX120216-9LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/16/2012

Date Analyzed: 02/20/2012

Prep Method: SW3520C

Prep Batch: EX120216-9

QCBatchID: EX120216-9-1

Run ID: SV120220-2

Cleanup: NONE

Basis: N/A

File Name: P14577

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	49.6	10		83	30 - 130%
110-86-1	PYRIDINE	60	44.2	10		74	10 - 101%
62-75-9	N-NITROSODIMETHYLAMINE	60	49.4	10		82	57 - 119%
62-53-3	ANILINE	60	48.5	10		81	38 - 116%
108-95-2	PHENOL	60	49.8	10		83	60 - 102%
111-44-4	BIS(2-CHLOROETHYL)ETHER	60	50.7	10		85	62 - 103%
95-57-8	2-CHLOROPHENOL	60	48	10		80	64 - 100%
541-73-1	1,3-DICHLOROBENZENE	60	45.3	10		76	49 - 95%
106-46-7	1,4-DICHLOROBENZENE	60	45.4	10		76	54 - 94%
95-50-1	1,2-DICHLOROBENZENE	60	46.4	10		77	54 - 97%
100-51-6	BENZYL ALCOHOL	60	47.8	10		80	66 - 105%
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	60	51.6	10		86	60 - 107%
95-48-7	2-METHYLPHENOL	60	48.1	10		80	63 - 103%
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	60	53.2	10		89	62 - 113%
108-39-4	3+4-METHYLPHENOL	60	47.1	10		79	54 - 106%
67-72-1	HEXACHLOROETHANE	60	47.5	10		79	47 - 95%
98-95-3	NITROBENZENE	60	52.6	10		88	36 - 107%
78-59-1	ISOPHORONE	60	50	10		83	58 - 102%
88-75-5	2-NITROPHENOL	60	56.4	10		94	69 - 108%
105-67-9	2,4-DIMETHYLPHENOL	60	47.5	10		79	57 - 101%
111-91-1	BIS(2-CHLOROETHOXY)METHANE	60	49.8	10		83	59 - 97%
120-83-2	2,4-DICHLOROPHENOL	60	49.9	10		83	61 - 99%
65-85-0	BENZOIC ACID	100	60.1	50		60	28 - 87%
120-82-1	1,2,4-TRICHLOROBENZENE	60	42	10		70	47 - 92%
91-20-3	NAPHTHALENE	60	48.5	10		81	58 - 92%
106-47-8	4-CHLOROANILINE	60	50.2	10		84	37 - 119%

Data Package ID: SV1202195-1

Date Printed: Friday, February 24, 2012

ALS Environmental -- FC

LIMS Version: 6.566

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GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: EX120216-9LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/16/2012

Date Analyzed: 02/20/2012

Prep Method: SW3520C

Prep Batch: EX120216-9

QCBatchID: EX120216-9-1

Run ID: SV120220-2

Cleanup: NONE

Basis: N/A

File Name: P14577

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
87-68-3	HEXACHLOROBUTADIENE	60	43	10		72	43 - 93%
59-50-7	4-CHLORO-3-METHYLPHENOL	60	53.7	10		89	61 - 105%
91-57-6	2-METHYLNAPHTHALENE	60	47.3	10		79	57 - 97%
90-12-0	1-METHYLNAPHTHALENE	60	47.5	10		79	58 - 101%
77-47-4	HEXACHLOROCYCLOPENTADIENE	60	16	10		27	3 - 56%
88-06-2	2,4,6-TRICHLOROPHENOL	60	51.9	10		87	61 - 110%
95-95-4	2,4,5-TRICHLOROPHENOL	60	53.9	10		90	62 - 109%
91-58-7	2-CHLORONAPHTHALENE	60	50.5	10		84	67 - 101%
88-74-4	2-NITROANILINE	60	65.2	20		109	68 - 120%
131-11-3	DIMETHYL PHTHALATE	60	54.6	10		91	70 - 109%
606-20-2	2,6-DINITROTOLUENE	60	60.7	10		101	69 - 111%
208-96-8	ACENAPHTHYLENE	60	53.2	10		89	67 - 108%
99-09-2	3-NITROANILINE	60	58.1	20		97	60 - 124%
83-32-9	ACENAPHTHENE	60	54.5	10		91	60 - 108%
51-28-5	2,4-DINITROPHENOL	60	61.7	20		103	55 - 126%
100-02-7	4-NITROPHENOL	60	54.9	20		91	24 - 128%
132-64-9	DIBENZOFURAN	60	52.3	10		87	67 - 107%
121-14-2	2,4-DINITROTOLUENE	60	62.9	10		105	46 - 114%
84-66-2	DIETHYL PHTHALATE	60	55.6	10		93	71 - 113%
86-73-7	FLUORENE	60	54.9	10		92	72 - 106%
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	60	52.8	10		88	69 - 107%
100-01-6	4-NITROANILINE	60	63.8	20		106	64 - 122%
103-33-3	AZOBENZENE	60	55.4	10		92	71 - 110%
534-52-1	4,6-DINITRO-2-METHYLPHENOL	60	61.5	20		103	63 - 123%
86-30-6	N-NITROSODIPHENYLAMINE	60	48.1	10		80	57 - 102%
101-55-3	4-BROMOPHENYL PHENYL ETHER	60	48.8	10		81	67 - 108%
118-74-1	HEXACHLOROBENZENE	60	47	10		78	48 - 115%

Data Package ID: SV1202195-1

Date Printed: Friday, February 24, 2012

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GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: EX120216-9LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/16/2012

Date Analyzed: 02/20/2012

Prep Method: SW3520C

Prep Batch: EX120216-9

QCBatchID: EX120216-9-1

Run ID: SV120220-2

Cleanup: NONE

Basis: N/A

File Name: P14577

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
58-90-2	2,3,4,6-TETRACHLOROPHENOL	100	87.3	10		87	67 - 116%
87-86-5	PENTACHLOROPHENOL	60	50.4	20		84	40 - 114%
85-01-8	PHENANTHRENE	60	54.9	10		92	73 - 108%
120-12-7	ANTHRACENE	60	54.9	10		92	72 - 108%
86-74-8	CARBAZOLE	60	57.5	10		96	68 - 112%
84-74-2	DI-N-BUTYL PHTHALATE	60	55	10		92	71 - 114%
206-44-0	FLUORANTHENE	60	55.7	10		93	71 - 111%
129-00-0	PYRENE	60	53.6	10		89	60 - 113%
85-68-7	BUTYL BENZYL PHTHALATE	60	58.7	10		98	66 - 115%
56-55-3	BENZO(A)ANTHRACENE	60	52.9	10		88	69 - 107%
91-94-1	3,3'-DICHLOROBENZIDINE	60	49.9	10		83	-8 - 136%
218-01-9	CHRYSENE	60	54.7	10		91	69 - 111%
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	60	57.2	10		95	61 - 121%
117-84-0	DI-N-OCTYL PHTHALATE	60	57.5	10		96	66 - 119%
205-99-2	BENZO(B)FLUORANTHENE	60	54.7	10		91	68 - 110%
207-08-9	BENZO(K)FLUORANTHENE	60	53.8	10		90	68 - 110%
50-32-8	BENZO(A)PYRENE	60	50.7	10		84	62 - 104%
193-39-5	INDENO(1,2,3-CD)PYRENE	60	49.4	10		82	57 - 121%
53-70-3	DIBENZO(A,H)ANTHRACENE	60	50.6	10		84	60 - 124%
191-24-2	BENZO(G,H,I)PERYLENE	60	46.4	10		77	52 - 124%

Data Package ID: SV1202195-1

Date Printed: Friday, February 24, 2012

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GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: EX120216-9LCSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/16/2012

Date Analyzed: 02/20/2012

Prep Method: SW3520C

Prep Batch: EX120216-9

QCBatchID: EX120216-9-1

Run ID: SV120220-2

Cleanup: NONE

Basis: N/A

File Name: P14578

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	46.7	10		78	50	6
110-86-1	PYRIDINE	60	41.8	10		70	20	6
62-75-9	N-NITROSODIMETHYLAMINE	60	49.3	10		82	20	0
62-53-3	ANILINE	60	49.7	10		83	20	2
108-95-2	PHENOL	60	49.8	10		83	20	0
111-44-4	BIS(2-CHLOROETHYL)ETHER	60	51.1	10		85	20	1
95-57-8	2-CHLOROPHENOL	60	48.2	10		80	20	0
541-73-1	1,3-DICHLOROBENZENE	60	45.1	10		75	20	1
106-46-7	1,4-DICHLOROBENZENE	60	45.7	10		76	20	1
95-50-1	1,2-DICHLOROBENZENE	60	46.6	10		78	20	0
100-51-6	BENZYL ALCOHOL	60	48.9	10		82	20	2
108-60-1	BIS(2-CHLOROISOPROPYL)ETHER	60	52	10		87	20	1
95-48-7	2-METHYLPHENOL	60	48.3	10		81	20	0
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	60	53.6	10		89	20	1
108-39-4	3+4-METHYLPHENOL	60	47.5	10		79	20	1
67-72-1	HEXACHLOROETHANE	60	47.2	10		79	20	1
98-95-3	NITROBENZENE	60	53.8	10		90	20	2
78-59-1	ISOPHORONE	60	50.2	10		84	20	0
88-75-5	2-NITROPHENOL	60	57.2	10		95	20	1
105-67-9	2,4-DIMETHYLPHENOL	60	47.8	10		80	20	1
111-91-1	BIS(2-CHLOROETHOXY)METHANE	60	50.6	10		84	20	2
120-83-2	2,4-DICHLOROPHENOL	60	49.9	10		83	20	0
65-85-0	BENZOIC ACID	100	56.9	50		57	20	5
120-82-1	1,2,4-TRICHLOROBENZENE	60	42.2	10		70	20	0
91-20-3	NAPHTHALENE	60	49.1	10		82	20	1
106-47-8	4-CHLOROANILINE	60	50.1	10		84	20	0
87-68-3	HEXACHLOROBUTADIENE	60	43.1	10		72	20	0

Data Package ID: SV1202195-1

Date Printed: Friday, February 24, 2012

ALS Environmental -- FC

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GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: EX120216-9LCSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/16/2012

Date Analyzed: 02/20/2012

Prep Method: SW3520C

Prep Batch: EX120216-9

QCBatchID: EX120216-9-1

Run ID: SV120220-2

Cleanup: NONE

Basis: N/A

File Name: P14578

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
59-50-7	4-CHLORO-3-METHYLPHENOL	60	54.7	10		91	20	2
91-57-6	2-METHYLNAPHTHALENE	60	47.9	10		80	20	1
90-12-0	1-METHYLNAPHTHALENE	60	48.7	10		81	20	2
77-47-4	HEXACHLOROCYCLOPENTADIENE	60	14.2	10		24	20	12
88-06-2	2,4,6-TRICHLOROPHENOL	60	51.5	10		86	20	1
95-95-4	2,4,5-TRICHLOROPHENOL	60	53.2	10		89	20	1
91-58-7	2-CHLORONAPHTHALENE	60	50.6	10		84	20	0
88-74-4	2-NITROANILINE	60	63.6	20		106	20	2
131-11-3	DIMETHYL PHTHALATE	60	54	10		90	20	1
606-20-2	2,6-DINITROTOLUENE	60	59.9	10		100	20	1
208-96-8	ACENAPHTHYLENE	60	52.9	10		88	20	1
99-09-2	3-NITROANILINE	60	56.6	20		94	20	3
83-32-9	ACENAPHTHENE	60	54	10		90	20	1
51-28-5	2,4-DINITROPHENOL	60	59.3	20		99	20	4
100-02-7	4-NITROPHENOL	60	53.5	20		89	20	2
132-64-9	DIBENZOFURAN	60	51.7	10		86	20	1
121-14-2	2,4-DINITROTOLUENE	60	61.4	10		102	20	2
84-66-2	DIETHYL PHTHALATE	60	53.7	10		90	20	3
86-73-7	FLUORENE	60	53.9	10		90	20	2
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	60	51.5	10		86	20	2
100-01-6	4-NITROANILINE	60	59.7	20		99	20	7
103-33-3	AZOBENZENE	60	54.2	10		90	20	2
534-52-1	4,6-DINITRO-2-METHYLPHENOL	60	58.6	20		98	20	5
86-30-6	N-NITROSODIPHENYLAMINE	60	45.4	10		76	20	6
101-55-3	4-BROMOPHENYL PHENYL ETHER	60	48.6	10		81	20	1
118-74-1	HEXACHLOROBENZENE	60	46.2	10		77	20	2
58-90-2	2,3,4,6-TETRACHLOROPHENOL	100	85.5	10		86	20	2

Data Package ID: SV1202195-1

Date Printed: Friday, February 24, 2012

ALS Environmental -- FC

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LIMS Version: 6.566

GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: EX120216-9LCSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/16/2012

Date Analyzed: 02/20/2012

Prep Method: SW3520C

Prep Batch: EX120216-9

QCBatchID: EX120216-9-1

Run ID: SV120220-2

Cleanup: NONE

Basis: N/A

File Name: P14578

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
87-86-5	PENTACHLOROPHENOL	60	49.1	20		82	20	3
85-01-8	PHENANTHRENE	60	54.1	10		90	20	1
120-12-7	ANTHRACENE	60	54.2	10		90	20	1
86-74-8	CARBAZOLE	60	56.7	10		94	20	1
84-74-2	DI-N-BUTYL PHTHALATE	60	55	10		92	20	0
206-44-0	FLUORANTHENE	60	54.6	10		91	20	2
129-00-0	PYRENE	60	55.3	10		92	20	3
85-68-7	BUTYL BENZYL PHTHALATE	60	61	10		102	20	4
56-55-3	BENZO(A)ANTHRACENE	60	52.7	10		88	20	0
91-94-1	3,3'-DICHLOROBENZIDINE	60	47.2	10		79	20	6
218-01-9	CHRYSENE	60	54.1	10		90	20	1
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	60	57.8	10		96	20	1
117-84-0	DI-N-OCTYL PHTHALATE	60	56.4	10		94	20	2
205-99-2	BENZO(B)FLUORANTHENE	60	53.4	10		89	20	2
207-08-9	BENZO(K)FLUORANTHENE	60	56.7	10		94	20	5
50-32-8	BENZO(A)PYRENE	60	50.1	10		83	20	1
193-39-5	INDENO(1,2,3-CD)PYRENE	60	48.9	10		82	20	1
53-70-3	DIBENZO(A,H)ANTHRACENE	60	49.9	10		83	20	1
191-24-2	BENZO(G,H,I)PERYLENE	60	45.7	10		76	20	1

Data Package ID: SV1202195-1

Date Printed: Friday, February 24, 2012

ALS Environmental -- FC

LIMS Version: 6.566

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GC/MS Semi-volatiles

Method SW8270D

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

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	77		75		42 - 117
321-60-8	2-FLUOROBIPHENYL	50	87		86		55 - 108
367-12-4	2-FLUOROPHENOL	75	84		82		46 - 105
4165-60-0	NITROBENZENE-D5	50	94		93		53 - 111
4165-62-2	PHENOL-D5	75	86		85		50 - 109
1718-51-0	TERPHENYL-D14	50	85		87		34 - 139

Data Package ID: SV1202195-1

Date Printed: Friday, February 24, 2012

ALS Environmental -- FC

LIMS Version: 6.566

Page 7 of 7

Data Path : C:\msdchem\1\DATA\022012\
 Data File : P14576.D
 Acq On : 20 Feb 2012 2:02 pm
 Operator : EB SOP506 Rev.16
 Sample : EX120216-9MB
 Misc : WATER EX120216-9
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 20 14:26:42 2012
 Quant Method : C:\msdchem\1\METHODS\020912S2.M
 Quant Title :
 QLast Update : Mon Feb 20 12:17:07 2012
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.498	152	450223	40.00	ng/ul	0.00 <i>etc</i>
25) Naphthalene-d8	7.876	136	1630201	40.00	ng/ul	0.00
42) Acenaphthene-d10	9.513	164	785210	40.00	ng/ul	0.00
70) Phenanthrene-d10	10.813	188	1280955	40.00	ng/ul	0.00
80) Chrysene-d12	13.105	240	1451146	40.00	ng/ul	0.00
91) Perylene-d12	14.695	264	1214815	40.00	ng/ul	0.00

System Monitoring Compounds

5) 2-Fluorophenol	4.703	112	749912	56.31	ng/ul	0.00 <i>etc</i>
Spiked Amount	75.000	Range 46 - 105	Recovery	=	75.08%	
6) 2-Chlorophenol-d4	6.218	132	785954	58.67	ng/ul	-0.01
Spiked Amount	75.000	Range 33 - 110	Recovery	=	78.23%	
7) Phenol-d5	5.979	99	982658	58.07	ng/ul	-0.01
Spiked Amount	75.000	Range 50 - 109	Recovery	=	77.43%	
15) 1,2-Dichlorobenzene-d4	6.681	152	363102	37.93	ng/ul	0.00
Spiked Amount	50.000	Range 16 - 110	Recovery	=	75.86%	
26) Nitrobenzene-d5	7.125	82	528962	43.40	ng/ul	0.00
Spiked Amount	50.000	Range 53 - 111	Recovery	=	86.80%	
46) 2-Fluorobiphenyl	8.876	172	1070266	41.89	ng/ul	0.00
Spiked Amount	50.000	Range 55 - 108	Recovery	=	83.78%	
71) 2,4,6-Tribromophenol	10.199	330	148358	52.42	ng/ul	0.00
Spiked Amount	75.000	Range 42 - 117	Recovery	=	69.89%	
83) p-Terphenyl-d14	12.136	244	1190217	43.43	ng/ul	0.00
Spiked Amount	50.000	Range 34 - 139	Recovery	=	86.86%	

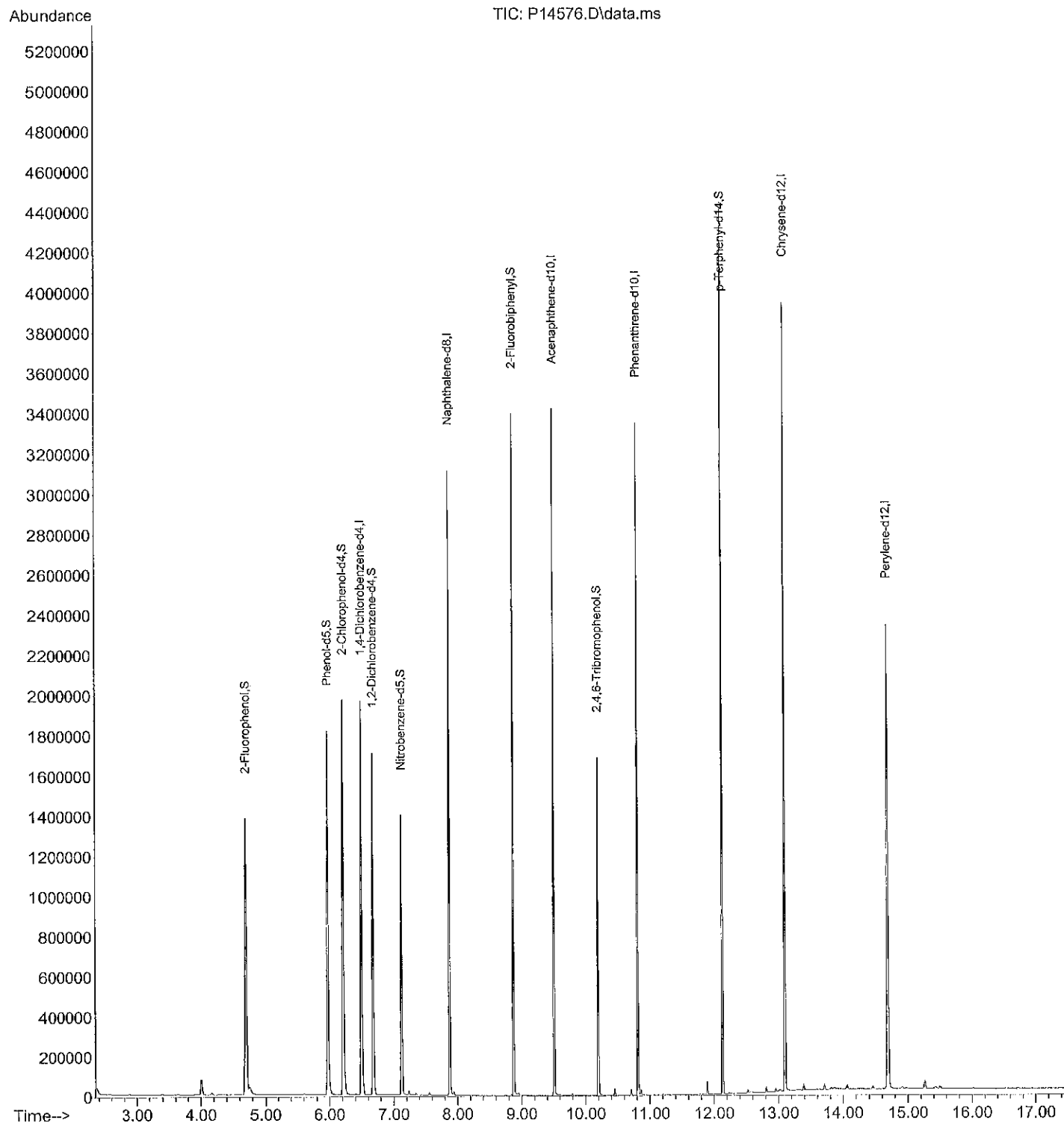
Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\022012\
Data File : P14576.D
Acq On : 20 Feb 2012 2:02 pm
Operator : EB SOP506 Rev.16
Sample : EX120216-9MB
Misc : WATER EX120216-9
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 20 14:26:42 2012
Quant Method : C:\msdchem\1\METHODS\020912S2.M
Quant Title :
QLast Update : Mon Feb 20 12:17:07 2012
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\022012\
Data File : P14576.D
Acq On : 20 Feb 2012 2:02 pmm
Operator : EB SOP506 Rev.166
Sample : EX120216-9MBB *as 2/21*
Misc : WATER EX120216-9B
ALS Vial : 3 Sample Multiplier: 11

Quant Method : C:\msdchem\1\METHODS\020912S2.MM
Quant Title :

TIC Library : C:\Database\NIST05.LL
TIC Integration Parameters: rteint.pp

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--		
					#	RT	Resp Conc

No Library Search Compounds Detected

Data Path : C:\msdchem\1\DATA\022012\
 Data File : P14577.D
 Acq On : 20 Feb 2012 2:26 pm
 Operator : EB SOP506 Rev.16
 Sample : EX120216-9LCS
 Misc : WATER EX120216-9
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 20 14:48:25 2012
 Quant Method : C:\msdchem\1\METHODS\020912S2.M
 Quant Title :
 QLast Update : Mon Feb 20 12:17:07 2012
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.500	152	437981	40.00	ng/ul	0.00 ^{0.00}
25) Naphthalene-d8	7.879	136	1573955	40.00	ng/ul	0.00
42) Acenaphthene-d10	9.515	164	774490	40.00	ng/ul	0.00
70) Phenanthrene-d10	10.816	188	1393470	40.00	ng/ul	0.00
80) Chrysene-d12	13.110	240	1535788	40.00	ng/ul	0.00
91) Perylene-d12	14.700	264	1363010	40.00	ng/ul	0.00

System Monitoring Compounds

5) 2-Fluorophenol	4.703	112	818523	63.19	ng/ul	0.00	611
Spiked Amount 75.000	Range 46 - 105		Recovery =	84.25%			
6) 2-Chlorophenol-d4	6.224	132	836427	64.18	ng/ul	0.00	611
Spiked Amount 75.000	Range 33 - 110		Recovery =	85.57%			
7) Phenol-d5	5.988	99	1061775	64.50	ng/ul	0.00	611
Spiked Amount 75.000	Range 50 - 109		Recovery =	86.00%			
15) 1,2-Dichlorobenzene-d4	6.684	152	386276	41.48	ng/ul	0.00	611
Spiked Amount 50.000	Range 16 - 110		Recovery =	82.96%			
26) Nitrobenzene-d5	7.131	82	550772	46.81	ng/ul	0.00	611
Spiked Amount 50.000	Range 53 - 111		Recovery =	93.62%			
46) 2-Fluorobiphenyl	8.879	172	1094403	43.42	ng/ul	0.00	611
Spiked Amount 50.000	Range 55 - 108		Recovery =	86.84%			
71) 2,4,6-Tribromophenol	10.201	330	177487	57.65	ng/ul	0.00	611
Spiked Amount 75.000	Range 42 - 117		Recovery =	76.87%			
83) p-Terphenyl-d14	12.136	244	1231428	42.45	ng/ul	0.00	611
Spiked Amount 50.000	Range 34 - 139		Recovery =	84.90%			

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.560	88	291744m	49.64	ng/ul	
3) n-Nitrosodimethylamine	2.989	74	418009m	49.39	ng/ul	
4) Pyridine	3.054	79	648588m	44.18	ng/ul	
8) Phenol	6.007	94	826425	49.79	ng/ul#	32
9) Aniline	6.109	93	1028357	48.50	ng/ul#	31
10) Bis(2-chloroethyl)ether	6.159	93	641426	50.72	ng/ul#	96
11) Tetramethylurea	6.246	72	10533	N.D.		
12) 2-Chlorophenol	6.246	128	679556	48.03	ng/ul	90
13) 1,3-Dichlorobenzene	6.435	146	739839	45.35	ng/ul	94
14) 1,4-Dichlorobenzene	6.522	146	731515	45.42	ng/ul#	93
16) Benzyl Alcohol	6.640	108	413099	47.75	ng/ul#	61
17) 1,2-Dichlorobenzene	6.699	146	691466	46.41	ng/ul	94
18) 2-Methylphenol	6.739	107	520156	48.07	ng/ul#	68
19) Bis(2-Chloroisopropyl)...	6.783	45	750770	51.55	ng/ul#	46
20) 3+4-Methylphenol	6.916	108	622810	47.10	ng/ul#	34
21) n-Nitroso-di-n-propyla...	6.944	70	438826	53.18	ng/ul#	89
22) N-Methylaniline	0.000	106	0	N.D.		
23) Hexachloroethane	7.081	117	266197	47.49	ng/ul	90
24) N,N-Dimethylaniline	0.000	120	0	N.D.		
27) Nitrobenzene	7.152	123	329584	52.65	ng/ul#	26
28) Isophorone	7.395	82	1121212	50.02	ng/ul#	92
29) n-Ethylaniline	7.469	106	1307	N.D.		
30) 2-Nitrophenol	7.481	139	361793	56.38	ng/ul#	73
31) 2,4-Dimethylphenol	7.485	107	547732	47.49	ng/ul#	38
32) Bis(2-Chloroethoxy)met...	7.590	93	699355	49.78	ng/ul	99
33) Benzoic acid	7.578	105	317687	60.12	ng/ul#	52

Data Path : C:\msdchem\1\DATA\022012\
 Data File : P14577.D
 Acq On : 20 Feb 2012 2:26 pm
 Operator : EB SOP506 Rev.16
 Sample : EX120216-9LCS
 Misc : WATER EX120216-9
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 20 14:48:25 2012
 Quant Method : C:\msdchem\1\METHODS\020912S2.M
 Quant Title :
 QLast Update : Mon Feb 20 12:17:07 2012
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) 2,4-Dichlorophenol	7.717	162	538248	49.86	ng/ul	98
35) 1,2,4-Trichlorobenzene	7.811	180	545059	42.03	ng/ul	98
36) Naphthalene	7.901	128	1847507	48.51	ng/ul	99
37) 4-Chloroaniline	7.938	127	771031	50.22	ng/ul#	88
38) Hexachlorobutadiene	7.994	225	293253	43.01	ng/ul	99
39) 4-Chloro-3-methylphenol	8.366	107	497979	53.67	ng/ul#	80
40) 2-Methylnaphthalene	8.559	142	1192594	47.31	ng/ul#	87
41) 1-Methylnaphthalene	8.655	142	1121674	47.54	ng/ul#	89
43) Hexachlorocyclopentadiene	8.686	237	94601	16.00	ng/ul#	97
44) 2,4,6-Trichlorophenol	8.804	196	369293	51.94	ng/ul#	91
45) 2,4,5-Trichlorophenol	8.838	196	399290	53.93	ng/ul#	94
47) 2-Chloronaphthalene	9.015	162	1094199	50.51	ng/ul	93
48) 2-Nitroaniline	9.093	65	308253	65.16	ng/ul#	74
49) 1,4-Dinitrobenzene	9.214	168	204735	60.51	ng/ul	90
50) Dimethylphthalate	9.226	163	1224991	54.56	ng/ul	100
51) 1,3-Dinitrobenzene	9.279	168	230870	61.92	ng/ul#	61
52) 2,6-Dinitrotoluene	9.298	165	303702	60.70	ng/ul#	73
53) 1,2-Dinitrobenzene	9.360	168	146476	59.90	ng/ul#	55
54) Acenaphthylene	9.397	152	1755296	53.18	ng/ul#	98
55) 3-Nitroaniline	9.459	138	306997	58.11	ng/ul#	81
56) Acenaphthene	9.546	154	1104623	54.48	ng/ul	99
57) 2,4-Dinitrophenol	9.543	184	171713	61.68	ng/ul#	74
58) 4-Nitrophenol	9.559	109	124035	54.88	ng/ul#	2
59) 2,4-Dinitrotoluene	9.655	165	403189	62.91	ng/ul#	60
60) Dibenzofuran	9.692	168	1458858	52.33	ng/ul	88
61) 2,3,5,6-Tetrachlorophenol	9.748	232	505439	90.17	ng/ul	94
62) 2,3,4,6-Tetrachlorophenol	9.785	232	493408	87.27	ng/ul#	93
63) Diethylphthalate	9.826	149	1227262	55.62	ng/ul	99
64) 4-Chlorophenyl phenyl ...	9.962	204	602832	52.77	ng/ul	93
65) Fluorene	9.996	166	1263786	54.92	ng/ul	100
66) 4-Nitroaniline	9.999	138	321781	63.77	ng/ul#	54
67) 4,6-Dinitro-2-methylph...	10.009	198	242281	61.50	ng/ul	96
68) n-Nitrosodiphenylamine	10.065	169	975813	48.05	ng/ul	99
69) Azobenzene	10.105	77	1067027	55.43	ng/ul#	82
72) 4-Bromophenyl phenyl e...	10.394	248	345495	48.85	ng/ul	89
73) Hexachlorobenzene	10.468	284	359077	47.02	ng/ul#	85
74) Pentachlorophenol	10.627	266	263146	50.41	ng/ul	96
75) Phenanthrene	10.838	178	1889662	54.93	ng/ul	98
76) Anthracene	10.881	178	1920704	54.92	ng/ul	99
77) Carbazole	11.002	167	1890634	57.49	ng/ul	96
78) Di-n-butylphthalate	11.210	149	2407533	55.01	ng/ul#	96
79) Fluoranthene	11.859	202	2370643	55.73	ng/ul#	91
81) Benzidine	11.937	184	1566163	70.52	ng/ul#	96
82) Pyrene	12.067	202	2425556	53.55	ng/ul#	95
84) Butylbenzylphthalate	12.508	149	974482	58.70	ng/ul	91
85) Bis(2-ethylhexyl) adipate	12.511	129	832492	57.02	ng/ul	89
86) Bis(2-ethylhexyl)phtha...	12.958	149	1523699	57.17	ng/ul	98
87) 3,3'-Dichlorobenzidine	13.033	252	741332	49.95	ng/ul#	98
88) Benzo[a]anthracene	13.098	228	2251146	52.89	ng/ul	96
89) Chrysene	13.138	228	2149643	54.65	ng/ul	99
90) Di-n-octylphthalate	13.561	149	2523531	57.46	ng/ul	98
92) Benzo[b]fluoranthene	14.213	252	2285200	54.68	ng/ul#	92

Data Path : C:\msdchem\1\DATA\022012\
Data File : P14577.D
Acq On : 20 Feb 2012 2:26 pm
Operator : EB SOP506 Rev.16
Sample : EX120216-9LCS
Misc : WATER EX120216-9
ALS Vial : 4 Sample Multiplier: 1

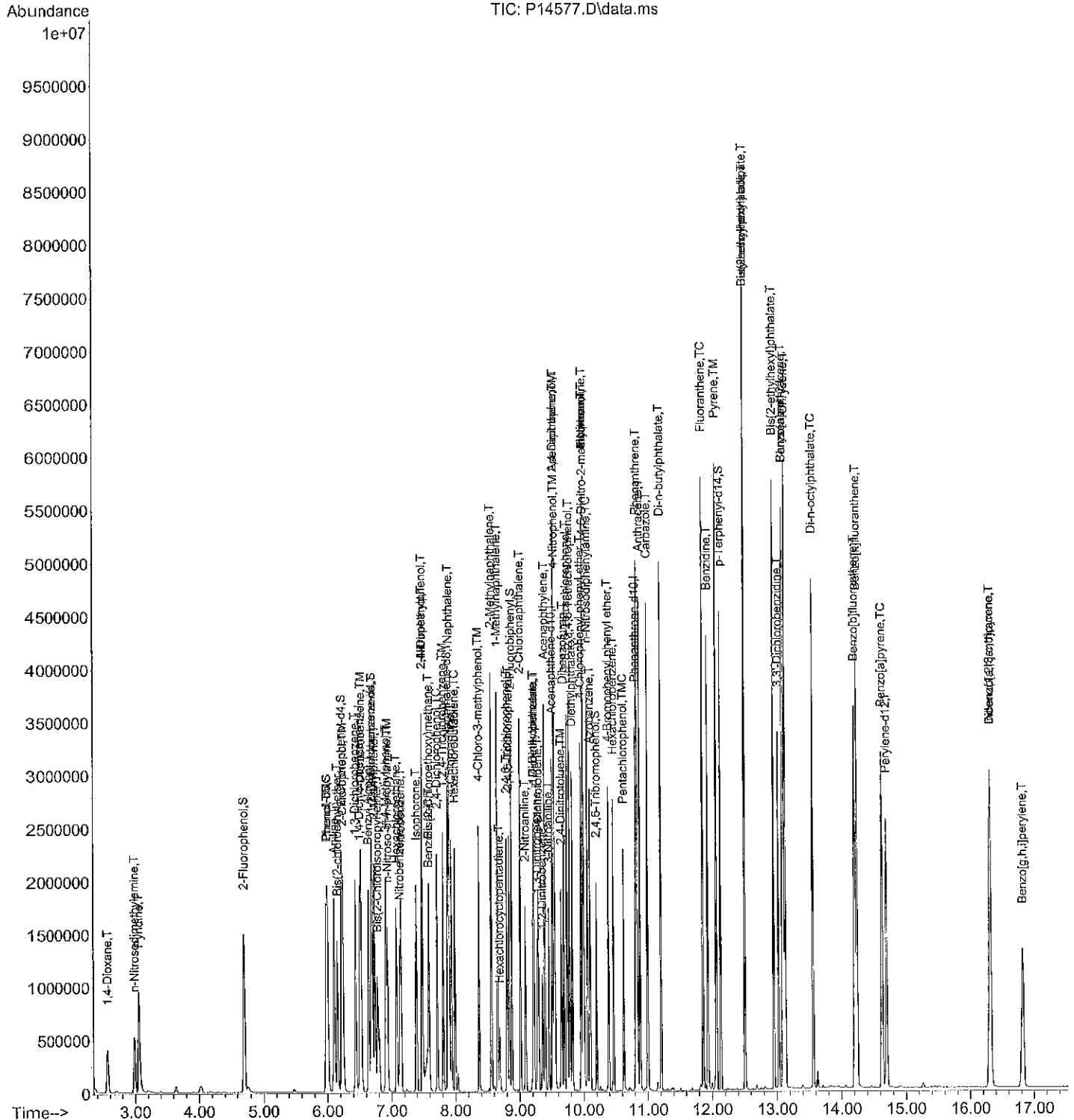
Quant Time: Feb 20 14:48:25 2012
Quant Method : C:\msdchem\1\METHODS\020912S2.M
Quant Title :
QLast Update : Mon Feb 20 12:17:07 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) Benzo[k]fluoranthene	14.247	252	1986078	53.75	ng/ul#	91
94) Benzo[a]pyrene	14.635	252	1848649	50.68	ng/ul#	92
95) Indeno(1,2,3-c,d)pyrene	16.327	276	1520662	49.37	ng/ul#	79
96) Dibenzo[a,h]anthracene	16.324	278	1300156	50.57	ng/ul#	73
97) Benzo[g,h,i]perylene	16.830	276	1135016	46.36	ng/ul#	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\022012\
Data File : P14577.D
Acq On : 20 Feb 2012 2:26 pm
Operator : EB SOP506 Rev.16
Sample : EX120216-9LCS
Misc : WATER EX120216-9
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 20 14:48:25 2012
Quant Method : C:\msdchem\1\METHODS\020912S2.M
Quant Title :
QLast Update : Mon Feb 20 12:17:07 2012
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\022012\
 Data File : P14578.D
 Acq On : 20 Feb 2012 2:51 pm
 Operator : EB SOP506 Rev.16
 Sample : EX120216-9LCSD
 Misc : WATER EX120216-9
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 20 15:12:21 2012
 Quant Method : C:\msdchem\1\METHODS\020912S2.M
 Quant Title :
 QLast Update : Mon Feb 20 12:17:07 2012
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.501	152	443164	40.00	ng/ul	0.00
25) Naphthalene-d8	7.879	136	1585011	40.00	ng/ul	0.00
42) Acenaphthene-d10	9.516	164	790388	40.00	ng/ul	0.00
70) Phenanthrene-d10	10.817	188	1395963	40.00	ng/ul	0.00
80) Chrysene-d12	13.111	240	1461912	40.00	ng/ul	0.00
91) Perylene-d12	14.701	264	1211971	40.00	ng/ul	0.00

System Monitoring Compounds

5) 2-Fluorophenol	4.706	112	810886	61.86	ng/ul	0.00
Spiked Amount	75.000	Range	46 - 105	Recovery	=	82.48%
6) 2-Chlorophenol-d4	6.225	132	834397	63.28	ng/ul	0.00
Spiked Amount	75.000	Range	33 - 110	Recovery	=	84.37%
7) Phenol-d5	5.989	99	1059376	63.60	ng/ul	0.00
Spiked Amount	75.000	Range	50 - 109	Recovery	=	84.80%
15) 1,2-Dichlorobenzene-d4	6.681	152	383410	40.69	ng/ul	0.00
Spiked Amount	50.000	Range	16 - 110	Recovery	=	81.38%
26) Nitrobenzene-d5	7.128	82	551823	46.57	ng/ul	0.00
Spiked Amount	50.000	Range	53 - 111	Recovery	=	93.14%
46) 2-Fluorobiphenyl	8.876	172	1103576	42.91	ng/ul	0.00
Spiked Amount	50.000	Range	55 - 108	Recovery	=	85.82%
71) 2,4,6-Tribromophenol	10.202	330	174286	56.51	ng/ul	0.00
Spiked Amount	75.000	Range	42 - 117	Recovery	=	75.35%
83) p-Terphenyl-d14	12.133	244	1198220	43.40	ng/ul	0.00
Spiked Amount	50.000	Range	34 - 139	Recovery	=	86.80%

Target Compounds

					Qvalue
2) 1,4-Dioxane	2.561	88	277883m	46.73	ng/ul
3) n-Nitrosodimethylamine	2.993	74	422086	49.29	ng/ul#
4) Pyridine	3.055	79	620420m	41.77	ng/ul
8) Phenol	6.007	94	835697	49.76	ng/ul#
9) Aniline	6.107	93	1065577	49.67	ng/ul#
10) Bis(2-chloroethyl) ether	6.159	93	653378	51.07	ng/ul#
11) Tetramethylurea	6.243	72	10342	N.D.	
12) 2-Chlorophenol	6.243	128	689519	48.17	ng/ul
13) 1,3-Dichlorobenzene	6.433	146	743913	45.06	ng/ul
14) 1,4-Dichlorobenzene	6.523	146	745533	45.75	ng/ul#
16) Benzyl Alcohol	6.641	108	428206	48.92	ng/ul#
17) 1,2-Dichlorobenzene	6.700	146	703146	46.64	ng/ul
18) 2-Methylphenol	6.740	107	528942	48.31	ng/ul#
19) Bis(2-Chloroisopropyl)...	6.784	45	766491	52.02	ng/ul#
20) 3+4-Methylphenol	6.914	108	635982	47.54	ng/ul#
21) n-Nitroso-di-n-propyla...	6.942	70	447914	53.64	ng/ul#
22) N-Methylaniline	0.000	106	0	N.D.	
23) Hexachloroethane	7.078	117	267909	47.24	ng/ul
24) N,N-Dimethylaniline	0.000	120	0	N.D.	
27) Nitrobenzene	7.150	123	339046	53.78	ng/ul#
28) Isophorone	7.392	82	1132336	50.17	ng/ul#
29) n-Ethylaniline	7.594	106	34171	N.D.	
30) 2-Nitrophenol	7.482	139	369428	57.17	ng/ul#
31) 2,4-Dimethylphenol	7.485	107	555214	47.80	ng/ul#
32) Bis(2-Chloroethoxy)met...	7.591	93	715711	50.59	ng/ul
33) Benzoic acid	7.575	105	297977	56.91	ng/ul#

Data Path : C:\msdchem\1\DATA\022012\
 Data File : P14578.D
 Acq On : 20 Feb 2012 2:51 pm
 Operator : EB SOP506 Rev.16
 Sample : EX120216-9LCSD
 Misc : WATER EX120216-9
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 20 15:12:21 2012
 Quant Method : C:\msdchem\1\METHODS\020912S2.M
 Quant Title :
 QLast Update : Mon Feb 20 12:17:07 2012
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) 2,4-Dichlorophenol	7.715	162	542476	49.90	ng/ul	98
35) 1,2,4-Trichlorobenzene	7.811	180	551622	42.24	ng/ul	98
36) Naphthalene	7.901	128	1881634	49.06	ng/ul	100
37) 4-Chloroaniline	7.935	127	774757	50.11	ng/ul#	88
38) Hexachlorobutadiene	7.994	225	296095	43.12	ng/ul	99
39) 4-Chloro-3-methylphenol	8.367	107	511152	54.70	ng/ul#	81
40) 2-Methylnaphthalene	8.559	142	1215173	47.87	ng/ul#	87
41) 1-Methylnaphthalene	8.656	142	1157988	48.74	ng/ul#	88
43) Hexachlorocyclopentadiene	8.687	237	85949	14.25	ng/ul#	98
44) 2,4,6-Trichlorophenol	8.802	196	373883	51.53	ng/ul#	91
45) 2,4,5-Trichlorophenol	8.836	196	401974	53.20	ng/ul#	94
47) 2-Chloronaphthalene	9.013	162	1119071	50.62	ng/ul	94
48) 2-Nitroaniline	9.093	65	307077	63.60	ng/ul#	73
49) 1,4-Dinitrobenzene	9.211	168	205731	59.68	ng/ul	91
50) Dimethylphthalate	9.227	163	1238294	54.05	ng/ul	100
51) 1,3-Dinitrobenzene	9.280	168	231560	60.86	ng/ul#	61
52) 2,6-Dinitrotoluene	9.295	165	305580	59.85	ng/ul#	73
53) 1,2-Dinitrobenzene	9.360	168	147540	59.12	ng/ul#	53
54) Acenaphthylene	9.398	152	1781381	52.88	ng/ul#	98
55) 3-Nitroaniline	9.460	138	305398	56.64	ng/ul#	80
56) Acenaphthene	9.547	154	1116464	53.96	ng/ul	98
57) 2,4-Dinitrophenol	9.544	184	168420	59.28	ng/ul#	75
58) 4-Nitrophenol	9.559	109	123462	53.53	ng/ul#	4
59) 2,4-Dinitrotoluene	9.652	165	401452	61.38	ng/ul#	61
60) Dibenzofuran	9.693	168	1469886	51.67	ng/ul	87
61) 2,3,5,6-Tetrachlorophenol	9.745	232	503937	88.09	ng/ul	95
62) 2,3,4,6-Tetrachlorophenol	9.783	232	493492	85.53	ng/ul#	93
63) Diethylphthalate	9.826	149	1209478	53.71	ng/ul	99
64) 4-Chlorophenyl phenyl ...	9.963	204	600265	51.49	ng/ul	92
65) Fluorene	9.994	166	1265970	53.91	ng/ul	100
66) 4-Nitroaniline	9.997	138	307337	59.68	ng/ul#	55
67) 4,6-Dinitro-2-methylph...	10.009	198	235701	58.63	ng/ul	96
68) n-Nitrosodiphenylamine	10.062	169	941595	45.44	ng/ul	100
69) Azobenzene	10.103	77	1065386	54.23	ng/ul#	82
72) 4-Bromophenyl phenyl e...	10.391	248	344049	48.56	ng/ul	89
73) Hexachlorobenzene	10.469	284	353101	46.16	ng/ul#	85
74) Pentachlorophenol	10.627	266	256617	49.07	ng/ul	96
75) Phenanthrene	10.838	178	1866305	54.15	ng/ul	98
76) Anthracene	10.882	178	1897736	54.17	ng/ul	99
77) Carbazole	11.003	167	1866396	56.65	ng/ul	96
78) Di-n-butylphthalate	11.211	149	2409610	54.96	ng/ul#	96
79) Fluoranthene	11.860	202	2327010	54.61	ng/ul#	91
81) Benzidine	11.934	184	1476794	69.86	ng/ul#	95
82) Pyrene	12.068	202	2384872	55.32	ng/ul#	95
84) Butylbenzylphthalate	12.509	149	956779	61.00	ng/ul	91
85) Bis(2-ethylhexyl) adipate	12.509	129	816160	59.14	ng/ul	89
86) Bis(2-ethylhexyl)phtha...	12.959	149	1467529	57.85	ng/ul	98
87) 3,3'-Dichlorobenzidine	13.030	252	666900	47.21	ng/ul#	98
88) Benzo[a]anthracene	13.096	228	2136726	52.74	ng/ul	96
89) Chrysene	13.136	228	2025705	54.11	ng/ul	98
90) Di-n-octylphthalate	13.561	149	2357298	56.39	ng/ul	99
92) Benzo[b]fluoranthene	14.213	252	1983238	53.37	ng/ul#	90

Data Path : C:\msdchem\1\DATA\022012\
Data File : P14578.D
Acq On : 20 Feb 2012 2:51 pm
Operator : EB SOP506 Rev.16
Sample : EX120216-9LCSD
Misc : WATER EX120216-9
ALS Vial : 5 Sample Multiplier: 1

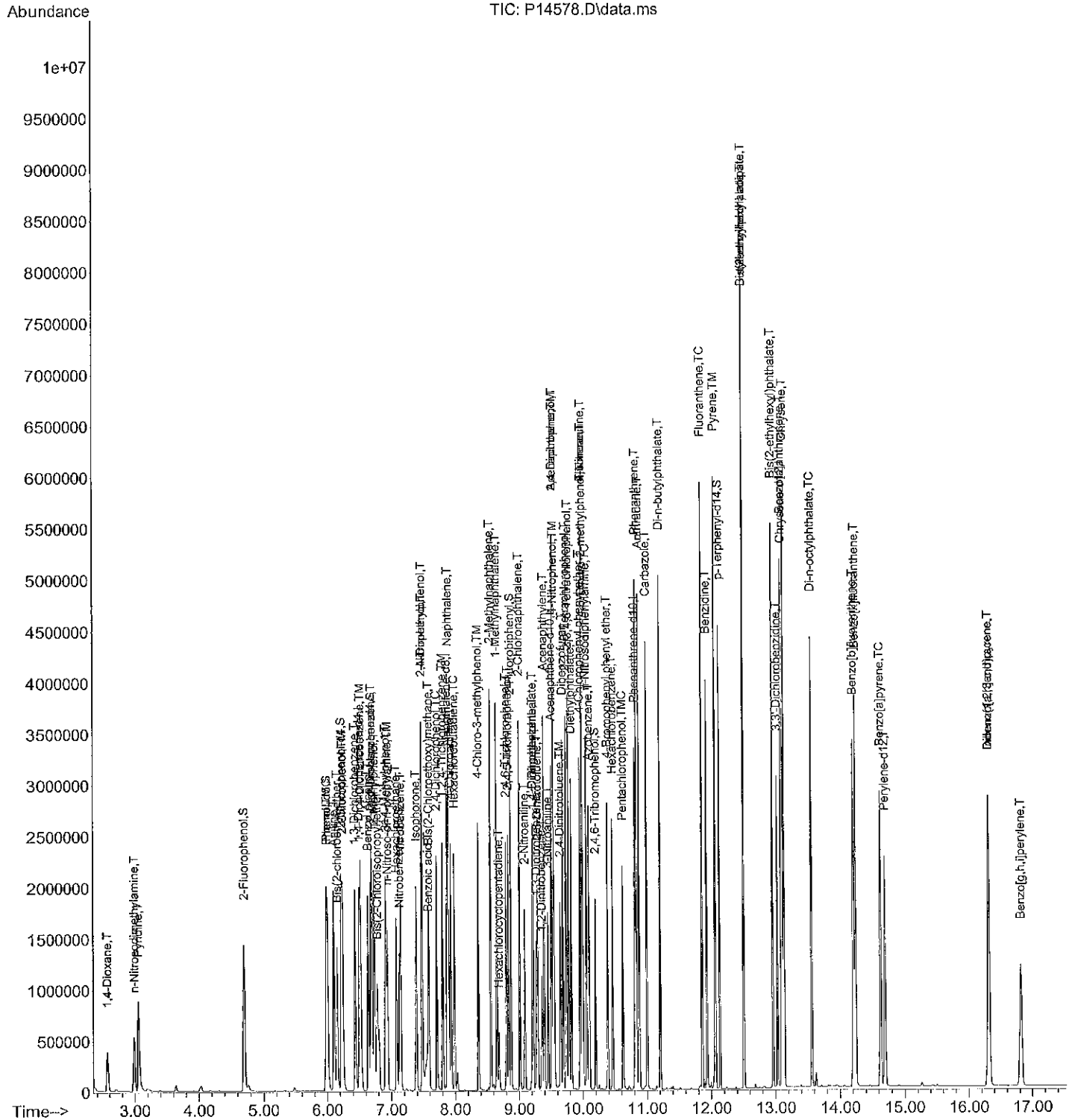
Quant Time: Feb 20 15:12:21 2012
Quant Method : C:\msdchem\1\METHODS\020912S2.M
Quant Title :
QLast Update : Mon Feb 20 12:17:07 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) Benzo[k]fluoranthene	14.247	252	1861438	56.66	ng/ul#	94
94) Benzo[a]pyrene	14.632	252	1623896	50.06	ng/ul#	92
95) Indeno(1,2,3-c,d)pyrene	16.321	276	1339469	48.90	ng/ul#	79
96) Dibenzo[a,h]anthracene	16.318	278	1141945	49.95	ng/ul#	73
97) Benzo[g,h,i]perylene	16.821	276	995373	45.73	ng/ul#	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\022012\
Data File : P14578.D
Acq On : 20 Feb 2012 2:51 pm
Operator : EB SOP506 Rev.16
Sample : EX120216-9LCSD
Misc : WATER EX120216-9
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 20 15:12:21 2012
Quant Method : C:\msdchem\1\METHODS\020912S2.M
Quant Title :
QLast Update : Mon Feb 20 12:17:07 2012
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\022012\
 Data File : P14580.D
 Acq On : 20 Feb 2012 3:40 pm
 Operator : EB SOP506 Rev.16
 Sample : 1202195-1
 Misc : WATER EX120216-9
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 20 16:03:45 2012
 Quant Method : C:\msdchem\1\METHODS\020912S2.M
 Quant Title :
 QLast Update : Mon Feb 20 12:17:07 2012
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.498	152	461149	40.00	ng/ul	0.00 <i>OK</i>
25) Naphthalene-d8	7.877	136	1666595	40.00	ng/ul	0.00
42) Acenaphthene-d10	9.510	164	823683	40.00	ng/ul	0.00
70) Phenanthrene-d10	10.814	188	1404896	40.00	ng/ul	0.00
80) Chrysene-d12	13.111	240	1537847	40.00	ng/ul	0.00
91) Perylene-d12	14.704	264	1268927	40.00	ng/ul	0.01

System Monitoring Compounds

5) 2-Fluorophenol	4.704	112	865850	63.48	ng/ul	0.00 <i>OK</i>
Spiked Amount	75.000	Range 46 - 105	Recovery	=	84.64%	
6) 2-Chlorophenol-d4	6.219	132	894974	65.22	ng/ul	0.00
Spiked Amount	75.000	Range 33 - 110	Recovery	=	86.96%	
7) Phenol-d5	5.980	99	1101026	63.52	ng/ul	-0.01
Spiked Amount	75.000	Range 50 - 109	Recovery	=	84.69%	
15) 1,2-Dichlorobenzene-d4	6.678	152	439566	44.83	ng/ul	0.00
Spiked Amount	50.000	Range 16 - 110	Recovery	=	89.66%	
26) Nitrobenzene-d5	7.122	82	617759	49.58	ng/ul	0.00
Spiked Amount	50.000	Range 53 - 111	Recovery	=	99.16%	
46) 2-Fluorobiphenyl	8.876	172	1223402	45.64	ng/ul	0.00
Spiked Amount	50.000	Range 55 - 108	Recovery	=	91.28%	
71) 2,4,6-Tribromophenol	10.199	330	166636	53.68	ng/ul	0.00
Spiked Amount	75.000	Range 42 - 117	Recovery	=	71.57%	
83) p-Terphenyl-d14	12.137	244	1314154	45.25	ng/ul	0.00
Spiked Amount	50.000	Range 34 - 139	Recovery	=	90.50%	

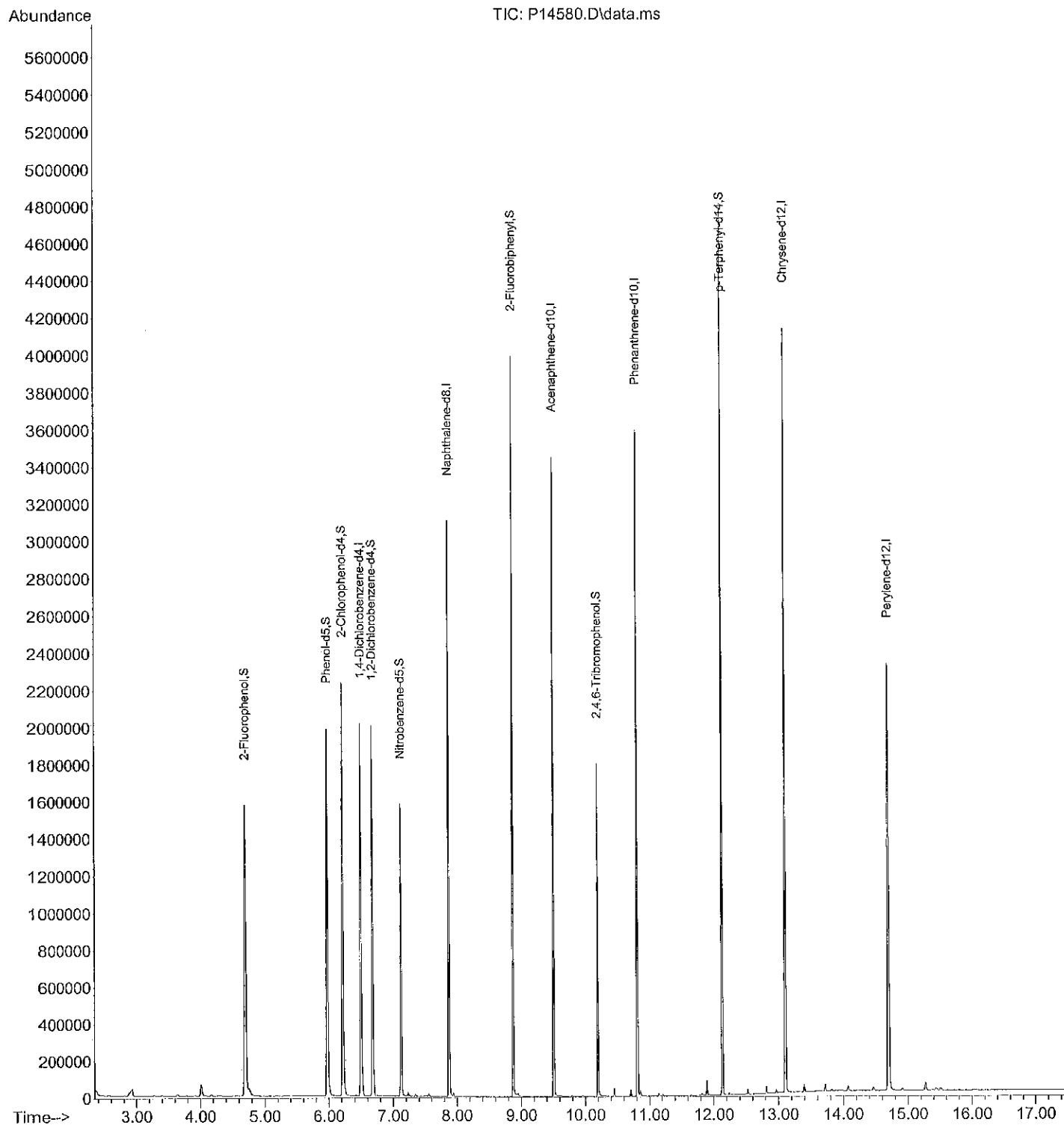
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

EB
2/20/12

Data Path : C:\msdchem\1\DATA\022012\
Data File : P14580.D
Acq On : 20 Feb 2012 3:40 pm
Operator : EB SOP506 Rev.16
Sample : 1202195-1
Misc : WATER EX120216-9
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 20 16:03:45 2012
Quant Method : C:\msdchem\1\METHODS\020912S2.M
Quant Title :
QLast Update : Mon Feb 20 12:17:07 2012
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\022012\
Data File : P14580.D
Acq On : 20 Feb 2012 3:40 pmm
Operator : EB SOP506 Rev.166
Sample : 1202195-11 *2/20/12*
Misc : WATER EX120216-98
ALS Vial : 7 Sample Multiplier: 11

Quant Method : C:\msdchem\1\METHODS\020912S2.MM
Quant Title :

TIC Library : C:\Database\NIST05.LL
TIC Integration Parameters: rteint.pp

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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No Library Search Compounds Detected
