

September 11, 2012  
No. 0174501

Mr. Steven L. Lawson

**Subject: Supplemental Condensed Water Analysis  
SGS Minerals Sample ID: 511-1287058-001  
McCoy Labs Sample ID: 2082644-01**



Dear Mr. Lawson:

Environmental Resources Management, Inc. (ERM) is pleased to submit this supplemental water quality analysis summary report for the microwaved coal condensed water samples collected on August 15, 2012 (Sample ID 511-1278994-001) and August 28, 2012 (Sample ID 2082644-01). Laboratory testing and analysis were completed by SGS North America Inc. (SGS) and McCoy & McCoy Laboratories Inc. (McCoy), respectively. The attached SGS and McCoy reports identify the analytical testing methodologies, testing results, and reporting limits. ERM compared the analytical results to the applicable Chinese Standard for Drinking Water Quality (SDWQ) and Chinese Standard for Irrigation Water Quality (SIWQ). These guidelines establish safe limits for constituents to safeguard human health, maintain ecological equilibrium, and promote economic development. A comparison between the SGS/McCoy reported laboratory results and the corresponding SDWQ/SIWQ guideline concentrations are summarized as follows:

Constituent	Lab Result	SDWQ Guideline	SIWQ Guideline	Pass or Fail
Benzene	<10 µg/l	0.01 mg/l	≤2.5 mg/l	Pass
Toluene	<10 µg/l	NG	NG	N/A
Ethylbenzene	<10 µg/l	NG	NG	N/A
m,p-Xylene	<10 µg/l	NG	NG	N/A
o-Xylene	<10 µg/l	NG	NG	N/A
Methyl tert-Butyl Ether (MTBE)	<10 µg/l	NG	NG	N/A
Total Petroleum Hydrocarbons (TPH)	<5 mg/l	NG	≤5 mg/l <sup>(1)</sup> , ≤10 mg/l <sup>(2)</sup> , ≤1 mg/l <sup>(3)</sup>	Pass
Chemical Oxygen Demand (COD)	38.00 mg/l	NG	≤150 mg/l <sup>(1)</sup> , ≤200 mg/l <sup>(2)</sup> , ≤100,60 mg/l <sup>(3)</sup>	Pass
Biochemical Oxygen Demand (BOD5)	19 mg/l	NG	≤60 mg/l <sup>(1)</sup> , ≤100 mg/l <sup>(2)</sup> , ≤40,15 mg/l <sup>(3)</sup>	Pass
Ammonia as Nitrogen	<0.25 mg/l	0.5 mg/l	NG	Pass
Total Nitrogen	<7 mg/l	NG	NG	N/A
Total Phosphorus	<0.07 mg/l	NG	NG	N/A
Sulfide	0.01 mg/l	0.02 mg/l	≤1 mg/l	Pass
Polycyclic Aromatic Hydrocarbons (PAH)	--	NG	NG	N/A
• Benzo(a)pyrene	<0.02 µg/l	0.01 µg/l	NG	Pass
• Acenaphthene	0.10 – 0.30 µg/l	NG	NG	N/A
• Acenaphthylene	0.03 µg/l	NG	NG	N/A
• Anthracene	<0.02 µg/l	NG	NG	N/A
• Benzo(a)anthracene	<0.02 µg/l	NG	NG	N/A
• Benzo(b)fluoranthene	<0.02 µg/l	NG	NG	N/A
• Benzo(k)fluoranthene	<0.02 µg/l	NG	NG	N/A
• Benzo(g,h,i)perylene	<0.02 µg/l	NG	NG	N/A

Constituent	Lab Result	SDWQ Guideline	SIWQ Guideline	Pass or Fail
• Chrysene	<0.02 µg/l	NG	NG	N/A
• Dibenzo(a,h)anthracene	<0.02 µg/l	NG	NG	N/A
• Fluoranthene	<0.02 µg/l	NG	NG	N/A
• Fluorene	0.18 µg/l	NG	NG	N/A
• Indeno(1,2,3-cd)pyrene	<0.02 µg/l	NG	NG	N/A
• Naphthalene	0.39 µg/l	NG	NG	N/A
• Phenanthrene	0.09 µg/l	NG	NG	N/A
• Pyrene	<0.02 µg/l	NG	NG	N/A

NG = No Guidance standard provided; N/A = Not Applicable.  
(1) For wet farming; (2) For dry farming; (3) For vegetable irrigation

SGS tested and analyzed the condensed water sample for chemical oxygen demand (COD) and 5-day biochemical oxygen demand (BOD5); and McCoy tested and analyzed for common volatile organic compounds (e.g., benzene, toluene, ethylbenzene, xylenes, and methyl tert-butyl ether), polycyclic aromatic hydrocarbons (PAHs), total petroleum hydrocarbons (TPH), and some conventional chemistry constituents. The analytical methodologies were developed by the United States Environmental Protection Agency (EPA). Of the 29 parameters tested, the SGS and McCoy reports identified no constituents in exceedance of corresponding Chinese standards.


In summary, this review of the supplemental condensed water sample analysis identifies no laboratory detections above SDWQ/SIWQ guidelines for the parameters tested. ERM concludes that the reported concentrations are acceptable and within the corresponding Chinese standards.

Please do not hesitate to contact the undersigned at +1 678-486-2700 if you have any questions or comments regarding this summary report and attachment. We appreciate your interest in the services and experience that ERM can bring to this project.

Sincerely,



Nils W. Thompson, P.G.  
Project Manager



Jeffrey N. Bilkert  
Principal

Attachments: SGS Analysis Report (511-1287058-001)  
McCoy Analysis Report (2082644-01)



Analysis Report

August 28, 2012

Page 1 of 1

Client Sample ID:	BOD-COD SAMPLE	Sample Point:	BOD-COD SAMPLE
Date Sampled:	Aug 15, 2012	Field - pH:	
Date Received:	Aug 16, 2012	Field - Flow:	
Product Description:	WATER	Field - Temperature:	
		Water Elevation:	
		Permit #:	

SGS Minerals Sample ID: 511-1287058-001

<u>TESTS</u>	<u>RESULT</u>	<u>UNIT</u>	<u>METHOD</u>	<u>REPORTING</u>		<u>ANALYZED</u>	
				<u>LIMIT</u>	<u>DATE</u>	<u>TIME</u>	<u>ANALYST</u>
COD as mg O2/L	38.00	mg/L	SM 5220 D	0.01	2012-08-17	10:30:00	MM
GENERAL WATER QUALITY							
Oxygen Demand, Biochemical (BOD5)	19	mg/L	SM 5210 B	0	2012-08-16	13:45:00	MM

Ron Christian  
Water Lab Manager

SGS North America Inc.

Minerals Services Division  
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## Certificate of Analysis

Report Printed: 09/06/2012 16:41

Project Name:	Coal Condensate	Workorder:	2082644
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Enclosed are the analytical results for samples received at the lab on 08/29/2012 10:00.

McCoy & McCoy Laboratories, Inc located in Madisonville, Kentucky is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact us at (270) 821-7375.

Please visit us at [www.mccoylabs.com](http://www.mccoylabs.com) for a listing of NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

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*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*

Doug Wolfe  
Lead Manager



### SAMPLE SUMMARY

Lab ID	Client Sample ID/Alias	Matrix	Date Collected	Date Received	Sampled By
2082644-01	Coal Condensate/	Water	08/28/2012 00:00	08/29/2012 10:00	Robert Hodjen

### ANALYTICAL RESULTS

Lab Sample ID: **2082644-01**  
Description: **Coal Condensate**

Sample Collection Date Time: 08/28/2012 00:00  
Sample Received Date Time: 08/29/2012 10:00

#### Volatile Organic Compounds

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Benzene	ND	u	ug/L	10	5	SW846-8260B	08/29/2012 15:01	08/29/2012 15:01	DMH
m,p-Xylene	ND	u	ug/L	10	5	SW846-8260B	08/29/2012 15:01	08/29/2012 15:01	DMH
Methyl tert-Butyl Ether	ND	u	ug/L	10	5	SW846-8260B	08/29/2012 15:01	08/29/2012 15:01	DMH
Ethylbenzene	ND	u	ug/L	10	5	SW846-8260B	08/29/2012 15:01	08/29/2012 15:01	DMH
Toluene	ND	u	ug/L	10	5	SW846-8260B	08/29/2012 15:01	08/29/2012 15:01	DMH
o-Xylene	ND	u	ug/L	10	5	SW846-8260B	08/29/2012 15:01	08/29/2012 15:01	DMH

Surrogate: 1,2-Dichloroethane-d4 95.6 % 70-120 08/29/2012 15:01 08/29/2012 15:01 DMH SW846-8260B  
Surrogate: Toluene-d8 97.8 % 85-120 08/29/2012 15:01 08/29/2012 15:01 DMH SW846-8260B

#### Conventional Chemistry Analyses\_01

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Ammonia as N	ND	u	mg/L	0.25	0.25	SM4500NH3F	08/30/2012 14:34	08/30/2012 14:34	JLP
Total Nitrogen	ND	u	mg/L	7	7	DR4000-10072	08/31/2012 08:23	08/31/2012 13:43	DDM
Phosphorus-Total	ND	u	mg/L	0.07	0.01	SM4500PE	08/31/2012 14:32	08/31/2012 14:32	TLB
<b>Sulfide</b>	<b>0.01</b>	<b>J</b>	mg/L	0.05	0.001	SM4500S2=D	08/31/2012 11:23	08/31/2012 11:50	DJK
Total Petroleum Hydrocarbons	ND	u	mg/L	5	2	EPA 1664A	08/30/2012 08:20	08/30/2012 11:08	HEM

#### High Performance Liquid Chromatography (HPLC)

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
<b>Acenaphthene</b>	<b>0.10</b>		ug/L	0.02	0.02	SW846-8310	08/30/2012 10:00	09/05/2012 21:17	JEB
<b>Acenaphthene [2C]</b>	<b>0.30</b>		ug/L	0.02	0.02	SW846-8310	08/30/2012 10:00	09/05/2012 21:17	JEB
<b>Acenaphthylene [2C]</b>	<b>0.03</b>		ug/L	0.02	0.02	SW846-8310	08/30/2012 10:00	09/05/2012 21:17	JEB
Anthracene [2C]	ND	u	ug/L	0.02	0.02	SW846-8310	08/30/2012 10:00	09/05/2012 21:17	JEB
Benzo(a)anthracene [2C]	ND	u	ug/L	0.02	0.02	SW846-8310	08/30/2012 10:00	09/05/2012 21:17	JEB
Benzo(b)fluoranthene [2C]	ND	u	ug/L	0.02	0.02	SW846-8310	08/30/2012 10:00	09/05/2012 21:17	JEB
Benzo(k)fluoranthene [2C]	ND	u	ug/L	0.02	0.02	SW846-8310	08/30/2012 10:00	09/05/2012 21:17	JEB
Benzo(g,h,i)perylene [2C]	ND	u	ug/L	0.02	0.02	SW846-8310	08/30/2012 10:00	09/05/2012 21:17	JEB
Chrysene [2C]	ND	u	ug/L	0.02	0.02	SW846-8310	08/30/2012 10:00	09/05/2012 21:17	JEB
Indeno(1,2,3-cd)pyrene [2C]	ND	u	ug/L	0.02	0.02	SW846-8310	08/30/2012 10:00	09/05/2012 21:17	JEB
Dibenzo(a,h)anthracene [2C]	ND	u	ug/L	0.02	0.02	SW846-8310	08/30/2012 10:00	09/05/2012 21:17	JEB
Fluoranthene [2C]	ND	u	ug/L	0.02	0.02	SW846-8310	08/30/2012 10:00	09/05/2012 21:17	JEB
<b>Fluorene [2C]</b>	<b>0.18</b>		ug/L	0.02	0.02	SW846-8310	08/30/2012 10:00	09/05/2012 21:17	JEB
<b>Naphthalene [2C]</b>	<b>0.39</b>		ug/L	0.02	0.02	SW846-8310	08/30/2012 10:00	09/05/2012 21:17	JEB
<b>Phenanthrene (2C)</b>	<b>0.09</b>		ug/L	0.02	0.02	SW846-8310	08/30/2012 10:00	09/05/2012 21:17	JEB
Benzo(a)pyrene [2C]	ND	u	ug/L	0.02	0.02	SW846-8310	08/30/2012 10:00	09/05/2012 21:17	JEB
Pyrene [2C]	ND	u	ug/L	0.02	0.02	SW846-8310	08/30/2012 10:00	09/05/2012 21:17	JEB

Surrogate: Pyrene-d10 [2C] 56.5 % 3:93 08/30/2012 10:00 09/05/2012 21:17 JEB SW846-8310



**Notes for work order 2082644**

- Samples collected by MMLI personnel are done so in accordance with procedures set forth in MMLI field services SOPs.
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identification based on the presumptive evidence of the mass spectra.

- U Target analyte was analyzed for, but was below detection limit (the value associated with the qualifier is the laboratory method detection limit in our LIMS system).
- M2 Matrix spike recovery was low; the method control sample recovery was acceptable.
- L2 The associated blank spike recovery was below method acceptance limits.
- L1 The associated blank spike recovery was above method acceptance limits.
- J Estimated value.
- D Results reported from dilution.

**Standard Qualifiers/Acronyms**

- MDL Method Detection Limit
- MRL Minimum Reporting Limit
- ND Not Detected
- LCS Laboratory Control Sample
- MS Matrix Spike
- MSD Matrix Spike Duplicate
- DUP Sample Duplicate
- % Rec Percent Recovery
- RPD Relative Percent Difference
- > Greater than permit limits
- < Less than permit limits

Analyses performed at the Madisonville KY location unless specified with the following location codes.

- 02 Pikeville, KY
- 03 Paducah, KY
- 04 Lexington, KY
- 05 Louisville, KY



**Volatile Organic Compounds - Quality Control**

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	
<b>Batch B235321 - VOC - Prep</b>										
<b>Blank (B235321-BLK1)</b>										
Prepared: 8/29/2012 14:09, Analyzed: 8/29/2012 14:09										
Benzene	ND	10	ug/L							U
m,p-Xylene	ND	10	ug/L							U
Methyl tert-Butyl Ether	ND	10	ug/L							U
Ethylbenzene	ND	10	ug/L							U
Toluene	ND	10	ug/L							U
o-Xylene	ND	10	ug/L							U

<i>Surrogate: 1,2-Dichloroethane-d4</i>	46.9		ug/L	50.0		93.9	70-120			
<i>Surrogate: Toluene-d8</i>	49.1		ug/L	50.0		98.2	85-120			

**LCS (B235321-BS1)**

Prepared: 8/29/2012 13:35, Analyzed: 8/29/2012 13:35

Benzene	46	10	ug/L	50.0		91.9	82-117			
m,p-Xylene	96	10	ug/L	100		96.0	84-115			
Methyl tert-Butyl Ether	48	10	ug/L	50.0		96.2	70-125			
Ethylbenzene	48	10	ug/L	50.0		96.8	85-115			
Toluene	47	10	ug/L	50.0		94.0	81-119			
o-Xylene	49	10	ug/L	50.0		97.9	81-117			

<i>Surrogate: 1,2-Dichloroethane-d4</i>	48.2		ug/L	50.0		96.5	70-120			
<i>Surrogate: Toluene-d8</i>	48.8		ug/L	50.0		97.5	85-120			



Conventional Chemistry Analyses\_01 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B235332 - Default Prep Wet Chem</b>										
<b>Blank (B235332-BLK1)</b>										
Prepared: 8/30/2012 8:20, Analyzed: 8/30/2012 11:08										
Total Petroleum Hydrocarbons	ND	5	mg/L							U
<b>LCS (B235332-BS1)</b>										
Prepared: 8/30/2012 8:20, Analyzed: 8/30/2012 11:08										
Total Petroleum Hydrocarbons	23	5	mg/L	19.8		115	64-132			
<b>Matrix Spike (B235332-MS1) Source: 2082461-01</b>										
Prepared: 8/30/2012 8:20, Analyzed: 8/30/2012 11:08										
Total Petroleum Hydrocarbons	17	5	mg/L	22.0	6	51.4	64-132			M2
<b>Batch B235353 - Default Prep Wet Chem</b>										
<b>Blank (B235353-BLK1)</b>										
Prepared: 8/30/2012 14:20, Analyzed: 8/30/2012 14:20										
Ammonia as N	ND	0.25	mg/L							U
<b>LCS (B235353-BS1)</b>										
Prepared: 8/30/2012 14:22, Analyzed: 8/30/2012 14:22										
Ammonia as N	11.0	0.25	mg/L	10.0		110	80-120			
<b>Duplicate (B235353-DUP1) Source: 2082509-02</b>										
Prepared: 8/30/2012 14:24, Analyzed: 8/30/2012 14:24										
Ammonia as N	3.25	0.25	mg/L		3.20			1.63	10	
<b>Matrix Spike (B235353-MS1) Source: 2082509-02</b>										
Prepared: 8/30/2012 16:24, Analyzed: 8/30/2012 16:24										
Ammonia as N	14.3	0.26	mg/L	10.2	3.20	109	80-120			
<b>Batch B235375 - Default Prep Wet Chem</b>										
<b>Blank (B235375-BLK1)</b>										
Prepared: 8/31/2012 11:26, Analyzed: 8/31/2012 11:26										
Phosphorus-Total	ND	0.07	mg/L							U





Conventional Chemistry Analyses\_01 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
<b>Batch B235375 - Default Prep Wet Chem</b>										
<b>Blank (B235375-BLK2)</b>										
Prepared: 8/31/2012 14:34, Analyzed: 8/31/2012 14:34										
Phosphorus-Total	ND	0.07	mg/L							U
<b>LCS (B235375-BS1)</b>										
Prepared: 8/31/2012 11:26, Analyzed: 8/31/2012 11:26										
Phosphorus-Total	0.51	0.07	mg/L	0.500		102	80-120			
<b>Duplicate (B235375-DUP1) Source: 2082927-02</b>										
Prepared: 8/31/2012 11:31, Analyzed: 8/31/2012 11:31										
Phosphorus-Total	4.15	0.35	mg/L		4.14			0.161	20	D
<b>Matrix Spike (B235375-MS1) Source: 2082927-02</b>										
Prepared: 8/31/2012 11:31, Analyzed: 8/31/2012 11:31										
Phosphorus-Total	8.16	0.35	mg/L	5.00	4.14	80.4	75-125			D
<b>Matrix Spike Dup (B235375-MSD1) Source: 2082927-02</b>										
Prepared: 8/31/2012 11:31, Analyzed: 8/31/2012 11:31										
Phosphorus-Total	8.04	0.35	mg/L	5.00	4.14	77.9	75-125	1.50	20	D
<b>Batch B235392 - Default Prep Wet Chem</b>										
<b>Blank (B235392-BLK1)</b>										
Prepared: 8/31/2012 8:23, Analyzed: 8/31/2012 13:43										
Total Nitrogen	ND	7	mg/L							U
<b>LCS (B235392-BS1)</b>										
Prepared: 8/31/2012 8:23, Analyzed: 8/31/2012 13:43										
Total Nitrogen	74	7	mg/L	70.0		106	80-120			
<b>Matrix Spike (B235392-MS1) Source: 2081973-02</b>										
Prepared: 8/31/2012 8:23, Analyzed: 8/31/2012 13:43										
Total Nitrogen	83	7	mg/L	70.0	23	85.7	80-120			
<b>Matrix Spike Dup (B235392-MSD1) Source: 2081973-02</b>										
Prepared: 8/31/2012 8:23, Analyzed: 8/31/2012 13:43										
Total Nitrogen	85	7	mg/L	70.0	23	88.6	80-120	2.38	25	



**Conventional Chemistry Analyses\_01 - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
<b>Batch B235421 - Default Prep Wet Chem</b>										
<b>Blank (B235421-BLK1)</b>										
Prepared: 8/31/2012 11:23, Analyzed: 8/31/2012 11:50										
Sulfide	ND	0.05	mg/L							U
<b>LCS (B235421-BS1)</b>										
Prepared: 8/31/2012 11:23, Analyzed: 8/31/2012 11:50										
Sulfide	0.2	0.05	mg/L	0.200		96.0	80-120			
<b>Duplicate (B235421-DUP1) Source: 2082644-01</b>										
Prepared: 8/31/2012 11:23, Analyzed: 8/31/2012 11:50										
Sulfide	0.01	0.05	mg/L		0.01			8.00	25	J
<b>Matrix Spike (B235421-MS1) Source: 2082644-01</b>										
Prepared: 8/31/2012 11:23, Analyzed: 8/31/2012 11:50										
Sulfide	0.2	0.05	mg/L	0.200	0.01	88.5	85-115			
<b>Matrix Spike Dup (B235421-MSD1) Source: 2082644-01</b>										
Prepared: 8/31/2012 11:23, Analyzed: 8/31/2012 11:50										
Sulfide	0.2	0.05	mg/L	0.200	0.01	89.5	85-115	1.05	20	



High Performance Liquid Chromatography (HPLC) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B235355 - Default Prep HPLC</b>										
<b>Blank (B235355-BLK1)</b>										
Prepared: 8/30/2012 10:00, Analyzed: 9/5/2012 18:01										
Acenaphthene	ND	0.02	ug/L							U
Acenaphthylene	ND	0.02	ug/L							U
Acenaphthene [2C]	ND	0.02	ug/L							U
Acenaphthylene [2C]	ND	0.02	ug/L							U
Anthracene [2C]	ND	0.02	ug/L							U
Benzo(a)anthracene [2C]	ND	0.02	ug/L							U
Benzo(b)fluoranthene [2C]	ND	0.02	ug/L							U
Benzo(k)fluoranthene [2C]	ND	0.02	ug/L							U
Benzo(g,h,i)perylene [2C]	ND	0.02	ug/L							U
Chrysene [2C]	ND	0.02	ug/L							U
Indeno(1,2,3-cd)pyrene [2C]	ND	0.02	ug/L							U
Dibenzo(a,h)anthracene [2C]	ND	0.02	ug/L							U
Fluoranthene [2C]	ND	0.02	ug/L							U
Fluorene [2C]	ND	0.02	ug/L							U
Naphthalene [2C]	ND	0.02	ug/L							U
Phenanthrene (2C)	ND	0.02	ug/L							U
Pyrene [2C]	ND	0.02	ug/L							U
Benzo(a)pyrene [2C]	ND	0.02	ug/L							U
Anthracene	ND	0.02	ug/L							U
Benzo(a)anthracene	ND	0.02	ug/L							U
Benzo(b)fluoranthene	ND	0.02	ug/L							U
Benzo(k)fluoranthene	ND	0.02	ug/L							U
Benzo(g,h,i)perylene	ND	0.02	ug/L							U
Benzo(a)pyrene	ND	0.02	ug/L							U
Chrysene	ND	0.02	ug/L							U
Indeno(1,2,3-cd)pyrene	ND	0.02	ug/L							U
Dibenzo(a,h)anthracene	ND	0.02	ug/L							U
Fluoranthene	ND	0.02	ug/L							U
Fluorene	ND	0.02	ug/L							U
Naphthalene	ND	0.02	ug/L							U
Phenanthrene	ND	0.02	ug/L							U
Pyrene	ND	0.02	ug/L							U
Surrogate: Pyrene-d10	1.32		ug/mL	2.00		66.0	33-93			
Surrogate: Pyrene-d10 [2C]	1.42		ug/mL	2.00		71.0	33-93			



High Performance Liquid Chromatography (HPLC) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B235355 - Default Prep HPLC</b>										
<b>LCS (B235355-BS1)</b>										
Prepared: 8/30/2012 10:00, Analyzed: 9/5/2012 18:50										
Acenaphthene	0.11		ug/mL	0.200		55.0	35-105			
Acenaphthylene	0.00		ug/mL	0.200			35-115			U
Acenaphthene [2C]	0.13		ug/mL	0.200		65.0	35-105			
Acenaphthylene [2C]	0.12		ug/mL	0.200		60.0	35-115			
Anthracene [2C]	0.12		ug/mL	0.200		60.0	40-110			
Benzo(a)anthracene [2C]	0.15		ug/mL	0.200		75.0	50-110			
Benzo(b)fluoranthene [2C]	0.15		ug/mL	0.200		75.0	50-110			
Benzo(k)fluoranthene [2C]	0.13		ug/mL	0.200		65.0	50-110			
Benzo(g,h,i)perylene [2C]	0.15		ug/mL	0.200		75.0	35-120			
Chrysene [2C]	0.13		ug/mL	0.200		65.0	50-115			
Indeno(1,2,3-cd)pyrene [2C]	0.10		ug/mL	0.200		50.0	45-110			
Dibenzo(a,h)anthracene [2C]	0.14		ug/mL	0.200		70.0	20-110			
Fluoranthene [2C]	0.12		ug/mL	0.200		60.0	50-115			
Fluorene [2C]	0.11		ug/mL	0.200		55.0	35-105			
Naphthalene [2C]	0.13		ug/mL	0.200		65.0	35-105			
Phenanthrene (2C)	0.14		ug/mL	0.200		70.0	40-120			
Pyrene [2C]	0.12		ug/mL	0.200		60.0	50-110			
Benzo(a)pyrene [2C]	0.05		ug/mL	0.200		25.0	45-115			L2
Anthracene	0.11		ug/mL	0.200		55.0	40-110			
Benzo(a)anthracene	0.15		ug/mL	0.200		75.0	50-110			
Benzo(b)fluoranthene	0.13		ug/mL	0.200		65.0	50-110			
Benzo(k)fluoranthene	0.14		ug/mL	0.200		70.0	50-110			
Benzo(g,h,i)perylene	0.00		ug/mL	0.200			35-120			L2, U
Benzo(a)pyrene	0.06		ug/mL	0.200		30.0	45-115			L2
Chrysene	0.13		ug/mL	0.200		65.0	50-115			
Indeno(1,2,3-cd)pyrene	0.10		ug/mL	0.200		50.0	45-110			
Dibenzo(a,h)anthracene	0.47		ug/mL	0.200		235	20-110			L1
Fluoranthene	0.00		ug/mL	0.200			50-115			L2, U
Fluorene	0.12		ug/mL	0.200		60.0	35-105			
Naphthalene	0.12		ug/mL	0.200		60.0	35-105			
Phenanthrene	0.13		ug/mL	0.200		65.0	40-120			
Pyrene	0.12		ug/mL	0.200		60.0	50-110			
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Surrogate: Pyrene-d10	1.21		ug/mL	2.00		60.5	33-93			
Surrogate: Pyrene-d10 [2C]	1.34		ug/mL	2.00		67.0	33-93			

High Performance Liquid Chromatography (HPLC) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B235355 - Default Prep HPLC</b>										
<b>LCS Dup (B235355-BSD1)</b>										
Prepared: 8/30/2012 10:00, Analyzed: 9/5/2012 19:39										
Acenaphthene	0.12		ug/mL	0.200		60.0	35-105	8.70	200	
Acenaphthylene	0.00		ug/mL	0.200			35-115		200	U
Acenaphthene [2C]	0.13		ug/mL	0.200		65.0	35-105	0.00	200	
Acenaphthylene [2C]	0.12		ug/mL	0.200		60.0	35-115	0.00	200	
Anthracene [2C]	0.12		ug/mL	0.200		60.0	40-110	0.00	200	
Benzo(a)anthracene [2C]	0.14		ug/mL	0.200		70.0	50-110	6.90	200	
Benzo(b)fluoranthene [2C]	0.23		ug/mL	0.200		115	50-110	42.1	200	L1
Benzo(k)fluoranthene [2C]	0.15		ug/mL	0.200		75.0	50-110	14.3	200	
Benzo(g,h,i)perylene [2C]	0.10		ug/mL	0.200		50.0	35-120	40.0	200	
Chrysene [2C]	0.14		ug/mL	0.200		70.0	50-115	7.41	200	
Indeno(1,2,3-cd)pyrene [2C]	0.11		ug/mL	0.200		55.0	45-110	9.52	200	
Dibenzo(a,h)anthracene [2C]	0.14		ug/mL	0.200		70.0	20-110	0.00	200	
Fluoranthene [2C]	0.13		ug/mL	0.200		65.0	50-115	8.00	200	
Fluorene [2C]	0.11		ug/mL	0.200		55.0	35-105	0.00	200	
Naphthalene [2C]	0.13		ug/mL	0.200		65.0	35-105	0.00	200	
Phenanthrene (2C)	0.13		ug/mL	0.200		65.0	40-120	7.41	200	
Pyrene [2C]	0.13		ug/mL	0.200		65.0	50-110	8.00	200	
Benzo(a)pyrene [2C]	0.08		ug/mL	0.200		40.0	45-115	46.2	200	L2
Anthracene	0.12		ug/mL	0.200		60.0	40-110	8.70	200	
Benzo(a)anthracene	0.16		ug/mL	0.200		80.0	50-110	6.45	200	
Benzo(b)fluoranthene	0.14		ug/mL	0.200		70.0	50-110	7.41	200	
Benzo(k)fluoranthene	0.14		ug/mL	0.200		70.0	50-110	0.00	200	
Benzo(g,h,i)perylene	0.00		ug/mL	0.200			35-120		200	L2, U
Benzo(a)pyrene	0.07		ug/mL	0.200		35.0	45-115	15.4	200	L2
Chrysene	0.13		ug/mL	0.200		65.0	50-115	0.00	200	
Indeno(1,2,3-cd)pyrene	0.11		ug/mL	0.200		55.0	45-110	9.52	200	
Dibenzo(a,h)anthracene	0.48		ug/mL	0.200		240	20-110	2.11	200	L1
Fluoranthene	0.00		ug/mL	0.200			50-115		200	L2, U
Fluorene	0.15		ug/mL	0.200		75.0	35-105	22.2	200	
Naphthalene	0.12		ug/mL	0.200		60.0	35-105	0.00	200	
Phenanthrene	0.14		ug/mL	0.200		70.0	40-120	7.41	200	
Pyrene	0.13		ug/mL	0.200		65.0	50-110	8.00	200	
Surrogate: Pyrene-d10	1.23		ug/mL	2.00		61.5	33-93			
Surrogate: Pyrene-d10 [2C]	1.34		ug/mL	2.00		67.0	33-93			