

CO Pit Closure Sampling/Testing

Closure Criteria for Below Grade Tanks (BGTs)

Bondad 33-9 #005

Components	Closure Limits (mg/Kg)	Bondad 33-9 #005
TPH*	500	ND
Benzene	0.170	ND
Toluene	85	ND
Ethylbenzene	100	ND
Xylenes-total	175	ND
Metals (COGCC Table 910-1)		
Arsenic	0.39	1.59
Barium	15000	262
Cadmium	70	1.72
Chromium (III)	120000	13.2
Chromium (VI)	23	
Copper	3100	10.4
Lead (inorganic)	400	7.12
Mercury	23	ND
Nickel (soluble salt)	1600	8.95
Selenium	390	4.35
Silver	390	1.95
Zinc	23000	47.2
Electrical Conductivity (EC)	<4 mmhos/cm 2X background	196
pH	6-9	7.94



Analytical Report

Report Summary

Client: WPX Energy, Inc.

Chain Of Custody Number: 17425

Samples Received: 2/16/2015 4:24:00PM

Job Number: 04108-0136

Work Order: P502053

Project Name/Location: Bondad 33-9 #005

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 2/27/15

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



WPX Energy, Inc.
PO Box 21218
Tulsa OK, 74121-1358

Project Name: Bondad 33-9 #005
Project Number: 04108-0136
Project Manager: Vanessa Fields

Reported:
27-Feb-15 16:32

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Center of Pit 5A & 5B 37.13078-107.81835	P502053-01A	Soil	02/14/15	02/16/15	Glass Jar, 4 oz.
	P502053-01B	Soil	02/14/15	02/16/15	Glass Jar, 4 oz.
North Wall 1A 1B 37.103078-107.81835	P502053-02A	Soil	02/14/15	02/16/15	Glass Jar, 4 oz.
	P502053-02B	Soil	02/14/15	02/16/15	Glass Jar, 4 oz.
East Wall 3A 3B 37.103078-107.81835	P502053-03A	Soil	02/14/15	02/16/15	Glass Jar, 4 oz.
	P502053-03B	Soil	02/14/15	02/16/15	Glass Jar, 4 oz.
South Wall 2A 2B 37.103078-107.81835	P502053-04A	Soil	02/14/15	02/16/15	Glass Jar, 4 oz.
	P502053-04B	Soil	02/14/15	02/16/15	Glass Jar, 4 oz.
West Wall 4A 4B 37.103078-107.81835	P502053-05A	Soil	02/14/15	02/16/15	Glass Jar, 4 oz.
	P502053-05B	Soil	02/14/15	02/16/15	Glass Jar, 4 oz.
Perimeter of Site 37.103078-107.81835	P502053-06A	Soil	02/14/15	02/16/15	Glass Jar, 4 oz.
	P502053-06B	Soil	02/14/15	02/16/15	Glass Jar, 4 oz.

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WPX Energy, Inc.	Project Name:	Bondad 33-9 #005	Reported: 27-Feb-15 16:32
PO Box 21218	Project Number:	04108-0136	
Tulsa OK, 74121-1358	Project Manager:	Vanessa Fields	

Center of Pit 5A & 5B 37.13078-107.81835

P502053-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1508037	02/19/15	02/20/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1508037	02/19/15	02/20/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1508037	02/19/15	02/20/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1508037	02/19/15	02/20/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1508037	02/19/15	02/20/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1508037	02/19/15	02/20/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1508037	02/19/15	02/20/15	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		83.8 %		50-150	1508037	02/19/15	02/20/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.83	mg/kg	1	1508037	02/19/15	02/20/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	44.5	mg/kg	2	1508038	02/19/15	02/20/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		105 %		50-200	1508038	02/19/15	02/20/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		83.8 %		50-150	1508037	02/19/15	02/20/15	EPA 8015D	
Total Metals by 6010									
Arsenic	1.59	1.00	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Barium	262	5.00	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Cadmium	1.72	1.00	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Chromium	13.2	1.00	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Copper	10.4	1.00	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Lead	7.12	1.00	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Mercury	ND	1.00	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Nickel	8.95	1.00	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Selenium	4.35	1.00	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Silver	1.95	1.00	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Zinc	47.2	1.00	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	

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PO Box 21218
Tulsa OK, 74121-1358

Project Name: Bondad 33-9 #005
Project Number: 04108-0136
Project Manager: Vanessa Fields

Reported:
27-Feb-15 16:32

Center of Pit 5A & 5B 37.13078-107.81835

P502053-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Petroleum Hydrocarbons by 418.1										
Total Petroleum Hydrocarbons	ND	35.0	mg/kg	1		1509033	02/26/15	02/26/15	EPA 418.1	
Cation/Anion Analysis										
pH @20.2°C	7.94		pH Units	1		1509002	02/23/15	02/24/15	EPA 9045D	
Electrical Conductivity	196		umhos/cm	1		1509002	02/23/15	02/24/15	EPA 120.1	
Sodium Absorption Ratio	0.796		N/A	1		1509037	02/27/15	02/27/15	[CALC]	
Chloride	ND	9.97	mg/kg	1		1509001	02/23/15	02/23/15	EPA 300.0	
Calcium	6.34	0.01	mg/L	1		1509016	02/25/15	02/25/15	EPA 6010C	
Magnesium	4.63	0.01	mg/L	1		1509016	02/25/15	02/25/15	EPA 6010C	
Sodium	10.8	0.01	mg/L	1		1509016	02/25/15	02/25/15	EPA 6010C	
Boron-Hot Water Soluble by EPA 6010										
Boron	ND	0.50	mg/L	1		1509005	02/23/15	02/27/15	EPA 6010C	

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Project Name: Bondad 33-9 #005
Project Number: 04108-0136
Project Manager: Vanessa Fields

Reported:
27-Feb-15 16:32

North Wall 1A 1B 37.103078-107.81835
P502053-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u>Volatile Organics by EPA 8021</u>									
Benzene	ND	0.10	mg/kg	1	1508037	02/19/15	02/24/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1508037	02/19/15	02/24/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1508037	02/19/15	02/24/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1508037	02/19/15	02/24/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1508037	02/19/15	02/24/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1508037	02/19/15	02/24/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1508037	02/19/15	02/24/15	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.1 %		50-150	1508037	02/19/15	02/24/15	EPA 8021B	
<u>Nonhalogenated Organics by 8015</u>									
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1508037	02/19/15	02/24/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	39.3	mg/kg	2	1508038	02/19/15	02/23/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		133 %		50-200	1508038	02/19/15	02/23/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		88.5 %		50-150	1508037	02/19/15	02/24/15	EPA 8015D	
<u>Total Metals by 6010</u>									
Arsenic	ND	0.98	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Barium	275	4.88	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Cadmium	1.67	0.98	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Chromium	13.8	0.98	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Copper	11.3	0.98	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Lead	7.13	0.98	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Mercury	ND	0.98	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Nickel	9.81	0.98	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Selenium	4.38	0.98	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Silver	1.11	0.98	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Zinc	48.6	0.98	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	

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Project Name: Bondad 33-9 #005
Project Number: 04108-0136
Project Manager: Vanessa Fields

Reported:
27-Feb-15 16:32

North Wall 1A 1B 37.103078-107.81835
P502053-02 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Petroleum Hydrocarbons by 418.1										
Total Petroleum Hydrocarbons	ND	34.9	mg/kg	1		1509033	02/26/15	02/26/15	EPA 418.1	
Cation/Anion Analysis										
pH @20°C	7.95		pH Units	1		1509002	02/23/15	02/24/15	EPA 9045D	
Electrical Conductivity	145		umhos/cm	1		1509002	02/23/15	02/24/15	EPA 120.1	
Sodium Absorption Ratio	0.672		N/A	1		1509037	02/27/15	02/27/15	[CALC]	
Chloride	ND	9.87	mg/kg	1		1509001	02/23/15	02/23/15	EPA 300.0	
Calcium	5.82	0.01	mg/L	1		1509016	02/25/15	02/25/15	EPA 6010C	
Magnesium	4.67	0.01	mg/L	1		1509016	02/25/15	02/25/15	EPA 6010C	
Sodium	8.97	0.01	mg/L	1		1509016	02/25/15	02/25/15	EPA 6010C	
Boron-Hot Water Soluble by EPA 6010										
Boron	ND	0.50	mg/L	1		1509005	02/23/15	02/27/15	EPA 6010C	

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Project Name: Bondad 33-9 #005
Project Number: 04108-0136
Project Manager: Vanessa Fields

Reported:
27-Feb-15 16:32

East Wall 3A 3B 37.103078-107.81835
P502053-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1508037	02/19/15	02/24/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1508037	02/19/15	02/24/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1508037	02/19/15	02/24/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1508037	02/19/15	02/24/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1508037	02/19/15	02/24/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1508037	02/19/15	02/24/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1508037	02/19/15	02/24/15	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		83.4 %		50-150	1508037	02/19/15	02/24/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.82	mg/kg	1	1508037	02/19/15	02/24/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	39.6	mg/kg	2	1508038	02/19/15	02/23/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		111 %		50-200	1508038	02/19/15	02/23/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		84.4 %		50-150	1508037	02/19/15	02/24/15	EPA 8015D	
Total Metals by 6010									
Arsenic	1.80	0.97	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Barium	251	4.86	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Cadmium	1.58	0.97	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Chromium	10.4	0.97	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Copper	11.0	0.97	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Lead	7.53	0.97	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Mercury	ND	0.97	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Nickel	8.99	0.97	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Selenium	4.08	0.97	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Silver	ND	0.97	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Zinc	45.7	0.97	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	

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Project Name: Bondad 33-9 #005
Project Number: 04108-0136
Project Manager: Vanessa Fields

Reported:
27-Feb-15 16:32

East Wall 3A 3B 37.103078-107.81835
P502053-03 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Petroleum Hydrocarbons by 418.1										
Total Petroleum Hydrocarbons	ND	34.9	mg/kg	1		1509033	02/26/15	02/26/15	EPA 418.1	
Cation/Anion Analysis										
pH @20°C	7.70		pH Units	1		1509002	02/23/15	02/24/15	EPA 9045D	
Electrical Conductivity	135		umhos/cm	1		1509002	02/23/15	02/24/15	EPA 120.1	
Sodium Absorption Ratio	0.619		N/A	1		1509037	02/27/15	02/27/15	[CALC]	
Chloride	ND	9.98	mg/kg	1		1509001	02/23/15	02/23/15	EPA 300.0	
Calcium	5.57	0.01	mg/L	1		1509016	02/25/15	02/25/15	EPA 6010C	
Magnesium	4.80	0.01	mg/L	1		1509016	02/25/15	02/25/15	EPA 6010C	
Sodium	8.26	0.01	mg/L	1		1509016	02/25/15	02/25/15	EPA 6010C	
Boron-Hot Water Soluble by EPA 6010										
Boron	ND	0.50	mg/L	1		1509005	02/23/15	02/27/15	EPA 6010C	

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Project Name: Bondad 33-9 #005
Project Number: 04108-0136
Project Manager: Vanessa Fields

Reported:
27-Feb-15 16:32

South Wall 2A 2B 37.103078-107.81835
P502053-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1509032	02/26/15	02/27/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1509032	02/26/15	02/27/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1509032	02/26/15	02/27/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1509032	02/26/15	02/27/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1509032	02/26/15	02/27/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1509032	02/26/15	02/27/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1509032	02/26/15	02/27/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %		50-150	1509032	02/26/15	02/27/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.83	mg/kg	1	1509032	02/26/15	02/26/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.8	mg/kg	1	1508038	02/20/15	02/23/15	EPA 8015D	
Surrogate: o-Terphenyl		104 %		50-200	1508038	02/20/15	02/23/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		89.0 %		50-150	1509032	02/26/15	02/26/15	EPA 8015D	
Total Metals by 6010									
Arsenic	1.88	0.97	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Barium	314	4.86	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Cadmium	1.77	0.97	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Chromium	12.5	0.97	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Copper	11.0	0.97	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Lead	7.09	0.97	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Mercury	ND	0.97	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Nickel	9.81	0.97	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Selenium	5.47	0.97	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Silver	3.19	0.97	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Zinc	51.4	0.97	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	

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WPX Energy, Inc.
PO Box 21218
Tulsa OK, 74121-1358

Project Name: Bondad 33-9 #005
Project Number: 04108-0136
Project Manager: Vanessa Fields

Reported:
27-Feb-15 16:32

South Wall 2A 2B 37.103078-107.81835
P502053-04 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Petroleum Hydrocarbons by 418.1									
Total Petroleum Hydrocarbons	ND	34.9	mg/kg	1	1509033	02/26/15	02/26/15	EPA 418.1	
Cation/Anion Analysis									
pH @20.1°C	7.71		pH Units	1	1509002	02/23/15	02/24/15	EPA 9045D	
Electrical Conductivity	152		umhos/cm	1	1509002	02/23/15	02/24/15	EPA 120.1	
Sodium Absorption Ratio	0.720		N/A	1	1509037	02/27/15	02/27/15	[CALC]	
Chloride	ND	9.82	mg/kg	1	1509001	02/23/15	02/23/15	EPA 300.0	
Calcium	5.50	0.01	mg/L	1	1509016	02/25/15	02/25/15	EPA 6010C	
Magnesium	4.22	0.01	mg/L	1	1509016	02/25/15	02/25/15	EPA 6010C	
Sodium	9.23	0.01	mg/L	1	1509016	02/25/15	02/25/15	EPA 6010C	
Boron-Hot Water Soluble by EPA 6010									
Boron	ND	0.50	mg/L	1	1509005	02/23/15	02/27/15	EPA 6010C	

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Project Name: Bondad 33-9 #005
Project Number: 04108-0136
Project Manager: Vanessa Fields

Reported:
27-Feb-15 16:32

West Wall 4A 4B 37.103078-107.81835
P502053-05 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1509032	02/26/15	02/27/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1509032	02/26/15	02/27/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1509032	02/26/15	02/27/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1509032	02/26/15	02/27/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1509032	02/26/15	02/27/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1509032	02/26/15	02/27/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1509032	02/26/15	02/27/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-150		1509032	02/26/15	02/27/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.82	mg/kg	1	1509032	02/26/15	02/26/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.5	mg/kg	1	1508038	02/20/15	02/23/15	EPA 8015D	
Surrogate: o-Terphenyl		104 %	50-200		1508038	02/20/15	02/23/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		98.5 %	50-150		1509032	02/26/15	02/26/15	EPA 8015D	
Total Metals by 6010									
Arsenic	2.22	0.99	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Barium	260	4.93	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Cadmium	1.79	0.99	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Chromium	11.6	0.99	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Copper	11.8	0.99	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Lead	8.92	0.99	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Mercury	ND	0.99	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Nickel	9.78	0.99	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Selenium	8.15	0.99	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Silver	6.21	0.99	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Zinc	48.5	0.99	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	

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WPX Energy, Inc.
PO Box 21218
Tulsa OK, 74121-1358

Project Name: Bondad 33-9 #005
Project Number: 04108-0136
Project Manager: Vanessa Fields

Reported:
27-Feb-15 16:32

West Wall 4A 4B 37.103078-107.81835
P502053-05 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Petroleum Hydrocarbons by 418.1										
Total Petroleum Hydrocarbons	ND	34.9	mg/kg	1		1509033	02/26/15	02/26/15	EPA 418.1	
Cation/Anion Analysis										
pH @20.1°C	7.89		pH Units	1		1509002	02/23/15	02/24/15	EPA 9045D	
Electrical Conductivity	154		umhos/cm	1		1509002	02/23/15	02/24/15	EPA 120.1	
Sodium Absorption Ratio	0.677		N/A	1		1509037	02/27/15	02/27/15	[CALC]	
Chloride	ND	9.94	mg/kg	1		1509001	02/23/15	02/23/15	EPA 300.0	
Calcium	6.38	0.01	mg/L	1		1509016	02/25/15	02/25/15	EPA 6010C	
Magnesium	5.43	0.01	mg/L	1		1509016	02/25/15	02/25/15	EPA 6010C	
Sodium	9.63	0.01	mg/L	1		1509016	02/25/15	02/25/15	EPA 6010C	
Boron-Hot Water Soluble by EPA 6010										
Boron	ND	0.50	mg/L	1		1509005	02/23/15	02/27/15	EPA 6010C	

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WPX Energy, Inc.
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Project Name: Bondad 33-9 #005
Project Number: 04108-0136
Project Manager: Vanessa Fields

Reported:
27-Feb-15 16:32

Perimeter of Site 37.103078-107.81835
P502053-06 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1509032	02/26/15	02/27/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1509032	02/26/15	02/27/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1509032	02/26/15	02/27/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1509032	02/26/15	02/27/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1509032	02/26/15	02/27/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1509032	02/26/15	02/27/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1509032	02/26/15	02/27/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %		50-150	1509032	02/26/15	02/27/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.84	mg/kg	1	1509032	02/26/15	02/27/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.5	mg/kg	1	1508038	02/20/15	02/23/15	EPA 8015D	
Surrogate: o-Terphenyl		104 %		50-200	1508038	02/20/15	02/23/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		98.2 %		50-150	1509032	02/26/15	02/27/15	EPA 8015D	
Total Metals by 6010									
Arsenic	3.07	0.96	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Barium	582	4.81	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Cadmium	1.96	0.96	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Chromium	15.9	0.96	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Copper	18.1	0.96	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Lead	21.2	0.96	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Mercury	ND	0.96	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Nickel	11.7	0.96	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Selenium	6.62	0.96	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Silver	3.32	0.96	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	
Zinc	60.7	0.96	mg/kg	1	1509004	02/23/15	02/27/15	EPA 6010C	

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WPX Energy, Inc.
PO Box 21218
Tulsa OK, 74121-1358

Project Name: Bondad 33-9 #005
Project Number: 04108-0136
Project Manager: Vanessa Fields

Reported:
27-Feb-15 16:32

Perimeter of Site 37.103078-107.81835

P502053-06 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Petroleum Hydrocarbons by 418.1										
Total Petroleum Hydrocarbons	ND	34.9	mg/kg	1		1509033	02/26/15	02/26/15	EPA 418.1	
Cation/Anion Analysis										
pH @20.1°C	7.78		pH Units	1		1509002	02/23/15	02/24/15	EPA 9045D	
Electrical Conductivity	66.9		umhos/cm	1		1509002	02/23/15	02/24/15	EPA 120.1	
Sodium Absorption Ratio	0.298		N/A	1		1509037	02/27/15	02/27/15	[CALC]	
Chloride	ND	9.86	mg/kg	1		1509001	02/23/15	02/23/15	EPA 300.0	
Calcium	13.9	0.01	mg/L	1		1509016	02/25/15	02/25/15	EPA 6010C	
Magnesium	11.7	0.01	mg/L	1		1509016	02/25/15	02/25/15	EPA 6010C	
Sodium	6.23	0.01	mg/L	1		1509016	02/25/15	02/25/15	EPA 6010C	
Boron-Hot Water Soluble by EPA 6010										
Boron	ND	0.50	mg/L	1		1509005	02/23/15	02/27/15	EPA 6010C	

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Tulsa OK, 74121-1358

Project Name: Bondad 33-9 #005
Project Number: 04108-0136
Project Manager: Vanessa Fields

Reported:
27-Feb-15 16:32

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1508037 - Purge and Trap EPA 5030A

Blank (1508037-BLK1)

Prepared: 19-Feb-15 Analyzed: 20-Feb-15

Benzene	ND	0.10	mg/kg
Toluene	ND	0.10	"
Ethylbenzene	ND	0.10	"
p,m-Xylene	ND	0.20	"
o-Xylene	ND	0.10	"
Total Xylenes	ND	0.10	"
Total BTEX	ND	0.10	"

Surrogate: 4-Bromochlorobenzene-PID 0.338 " 0.395 85.4 50-150

LCS (1508037-BS1)

Prepared: 19-Feb-15 Analyzed: 20-Feb-15

Benzene	17.7	0.10	mg/kg	20.0	88.3	75-125
Toluene	17.5	0.10	"	20.0	87.5	70-125
Ethylbenzene	17.5	0.10	"	20.0	87.4	75-125
p,m-Xylene	35.0	0.20	"	40.0	87.6	80-125
o-Xylene	17.1	0.10	"	20.0	85.7	75-125

Surrogate: 4-Bromochlorobenzene-PID 0.347 " 0.400 86.9 50-150

Matrix Spike (1508037-MS1)

Source: P502053-01

Prepared: 19-Feb-15 Analyzed: 20-Feb-15

Benzene	17.6	0.10	mg/kg	19.9	ND	88.5	75-125
Toluene	17.5	0.10	"	19.9	ND	88.0	70-125
Ethylbenzene	17.5	0.10	"	19.9	ND	87.9	75-125
p,m-Xylene	35.0	0.20	"	39.7	ND	88.1	80-125
o-Xylene	17.1	0.10	"	19.9	ND	86.3	75-125

Surrogate: 4-Bromochlorobenzene-PID 0.338 " 0.397 85.0 50-150

Matrix Spike Dup (1508037-MSD1)

Source: P502053-01

Prepared: 19-Feb-15 Analyzed: 20-Feb-15

Benzene	17.8	0.10	mg/kg	19.7	ND	90.5	75-125	1.40	15
Toluene	17.7	0.10	"	19.7	ND	90.0	70-125	1.41	15
Ethylbenzene	17.7	0.10	"	19.7	ND	90.0	75-125	1.49	15
p,m-Xylene	35.4	0.20	"	39.4	ND	89.8	80-125	1.11	15
o-Xylene	17.3	0.10	"	19.7	ND	88.1	75-125	1.21	15

Surrogate: 4-Bromochlorobenzene-PID 0.338 " 0.394 85.9 50-150

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Project Name: Bondad 33-9 #005
Project Number: 04108-0136
Project Manager: Vanessa Fields

Reported:
27-Feb-15 16:32

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1509032 - Purge and Trap EPA 5030A

Blank (1509032-BLK1)

Prepared: 26-Feb-15 Analyzed: 27-Feb-15

Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							

Surrogate: 4-Bromochlorobenzene-PID 0.388 " 0.398 97.5 50-150

LCS (1509032-BS1)

Prepared & Analyzed: 26-Feb-15

Benzene	20.6	0.10	mg/kg	19.7		104	75-125			
Toluene	20.4	0.10	"	19.7		103	70-125			
Ethylbenzene	20.3	0.10	"	19.7		103	75-125			
p,m-Xylene	40.8	0.20	"	39.4		104	80-125			
o-Xylene	20.4	0.10	"	19.7		103	75-125			

Surrogate: 4-Bromochlorobenzene-PID 0.446 " 0.394 113 50-150

Matrix Spike (1509032-MS1)

Source: P502053-04

Prepared & Analyzed: 26-Feb-15

Benzene	22.2	0.10	mg/kg	20.0	ND	111	75-125			
Toluene	22.0	0.10	"	20.0	ND	110	70-125			
Ethylbenzene	21.4	0.10	"	20.0	ND	107	75-125			
p,m-Xylene	41.8	0.20	"	39.9	ND	105	80-125			
o-Xylene	20.6	0.10	"	20.0	ND	103	75-125			

Surrogate: 4-Bromochlorobenzene-PID 0.375 " 0.399 93.9 50-150

Matrix Spike Dup (1509032-MSD1)

Source: P502053-04

Prepared & Analyzed: 26-Feb-15

Benzene	21.4	0.10	mg/kg	19.9	ND	107	75-125	3.61	15	
Toluene	21.5	0.10	"	19.9	ND	108	70-125	2.47	15	
Ethylbenzene	21.1	0.10	"	19.9	ND	106	75-125	1.14	15	
p,m-Xylene	41.9	0.20	"	39.9	ND	105	80-125	0.250	15	
o-Xylene	20.6	0.10	"	19.9	ND	103	75-125	0.0678	15	

Surrogate: 4-Bromochlorobenzene-PID 0.390 " 0.399 97.7 50-150

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WPX Energy, Inc. PO Box 21218 Tulsa OK, 74121-1358	Project Name: Bondad 33-9 #005 Project Number: 04108-0136 Project Manager: Vanessa Fields	Reported: 27-Feb-15 16:32
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Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1508037 - Purge and Trap EPA 5030A										
Blank (1508037-BLK1)				Prepared: 19-Feb-15 Analyzed: 20-Feb-15						
Gasoline Range Organics (C6-C10)	ND	9.89	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.334		"	0.395		84.5	50-150			
LCS (1508037-BS1)				Prepared: 19-Feb-15 Analyzed: 20-Feb-15						
Gasoline Range Organics (C6-C10)	276	10.0	mg/kg	292		94.5	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.345		"	0.400		86.3	50-150			
Matrix Spike (1508037-MS1)				Source: P502053-01		Prepared: 19-Feb-15 Analyzed: 20-Feb-15				
Gasoline Range Organics (C6-C10)	275	9.93	mg/kg	290	ND	94.8	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.338		"	0.397		85.1	50-150			
Matrix Spike Dup (1508037-MSD1)				Source: P502053-01		Prepared: 19-Feb-15 Analyzed: 20-Feb-15				
Gasoline Range Organics (C6-C10)	277	9.85	mg/kg	288	ND	96.4	75-125	0.857	15	
Surrogate: 4-Bromochlorobenzene-FID	0.338		"	0.394		85.7	50-150			

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PO Box 21218
Tulsa OK, 74121-1358

Project Name: Bondad 33-9 #005
Project Number: 04108-0136
Project Manager: Vanessa Fields

Reported:
27-Feb-15 16:32

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1508038 - DRO Extraction EPA 3550M										
Blank (1508038-BLK1)				Prepared: 19-Feb-15 Analyzed: 20-Feb-15						
Diesel Range Organics (C10-C28)	ND	24.9	mg/kg							
Surrogate: o-Terphenyl	38.2		"	39.8		95.9	50-200			
LCS (1508038-BS1)				Prepared: 19-Feb-15 Analyzed: 20-Feb-15						
Diesel Range Organics (C10-C28)	483	25.0	mg/kg	500		96.7	38-132			
Surrogate: o-Terphenyl	42.1		"	40.0		105	50-200			
Matrix Spike (1508038-MS1)				Source: P502053-01		Prepared: 19-Feb-15 Analyzed: 20-Feb-15				
Diesel Range Organics (C10-C28)	483	39.4	mg/kg	492	ND	98.1	38-132			
Surrogate: o-Terphenyl	40.7		"	39.4		103	50-200			
Matrix Spike Dup (1508038-MSD1)				Source: P502053-01		Prepared: 19-Feb-15 Analyzed: 20-Feb-15				
Diesel Range Organics (C10-C28)	574	39.5	mg/kg	494	ND	116	38-132	17.2	20	
Surrogate: o-Terphenyl	52.9		"	39.5		134	50-200			

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WPX Energy, Inc.
PO Box 21218
Tulsa OK, 74121-1358

Project Name: Bondad 33-9 #005
Project Number: 04108-0136
Project Manager: Vanessa Fields

Reported:
27-Feb-15 16:32

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1509032 - Purge and Trap EPA 5030A										
Blank (1509032-BLK1)				Prepared: 26-Feb-15 Analyzed: 27-Feb-15						
Gasoline Range Organics (C6-C10)	ND	9.95	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.374		"	0.398		94.0	50-150			
LCS (1509032-BS1)				Prepared & Analyzed: 26-Feb-15						
Gasoline Range Organics (C6-C10)	261	9.86	mg/kg	263		99.4	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.419		"	0.394		106	50-150			
Matrix Spike (1509032-MS1)				Source: P502053-04		Prepared & Analyzed: 26-Feb-15				
Gasoline Range Organics (C6-C10)	267	9.98	mg/kg	266	ND	100	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.350		"	0.399		87.8	50-150			
Matrix Spike Dup (1509032-MSD1)				Source: P502053-04		Prepared & Analyzed: 26-Feb-15				
Gasoline Range Organics (C6-C10)	266	9.97	mg/kg	266	ND	100	75-125	0.307	15	
Surrogate: 4-Bromochlorobenzene-FID	0.366		"	0.399		91.8	50-150			

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WPX Energy, Inc.
PO Box 21218
Tulsa OK, 74121-1358

Project Name: Bondad 33-9 #005
Project Number: 04108-0136
Project Manager: Vanessa Fields

Reported:
27-Feb-15 16:32

Total Metals by 6010 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1509004 - Metal Solid Digestion EPA 3051A

Blank (1509004-BLK1)

Prepared: 23-Feb-15 Analyzed: 27-Feb-15

Arsenic	ND	1.00	mg/kg
Barium	ND	5.00	"
Cadmium	ND	1.00	"
Chromium	ND	1.00	"
Copper	ND	1.00	"
Lead	ND	1.00	"
Mercury	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	1.00	"
Silver	ND	1.00	"
Zinc	ND	1.00	"

Duplicate (1509004-DUP1)

Source: P502053-01

Prepared: 23-Feb-15 Analyzed: 27-Feb-15

Arsenic	1.68	0.98	mg/kg	1.59	5.80	30
Barium	344	4.89	"	262	27.0	30
Cadmium	1.68	0.98	"	1.72	2.06	30
Chromium	11.7	0.98	"	13.2	11.8	30
Copper	10.7	0.98	"	10.4	2.64	30
Lead	6.60	0.98	"	7.12	7.68	30
Mercury	ND	0.98	"	ND		30
Nickel	8.99	0.98	"	8.95	0.478	30
Selenium	3.73	0.98	"	4.35	15.3	30
Silver	1.25	0.98	"	1.95	43.4	30
Zinc	48.6	0.98	"	47.2	2.92	30

Matrix Spike (1509004-MS1)

Source: P502053-01

Prepared: 23-Feb-15 Analyzed: 27-Feb-15

Arsenic	0.24	mg/L	0.250	0.02	88.6	75-125
Barium	7.77	"	5.00	2.49	105	75-125
Cadmium	0.25	"	0.250	0.02	91.8	75-125
Chromium	0.61	"	0.500	0.13	96.1	75-125
Copper	0.54	"	0.500	0.10	88.2	75-125
Lead	0.51	"	0.500	0.07	87.6	75-125
Mercury	0.09	"	0.100	ND	88.2	75-125
Nickel	0.55	"	0.500	0.09	92.8	75-125
Selenium	0.14	"	0.100	0.04	103	75-125
Silver	0.10	"	0.100	0.02	82.1	75-125
Zinc	0.90	"	0.500	0.45	90.3	75-125

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WPX Energy, Inc.	Project Name:	Bondad 33-9 #005	
PO Box 21218	Project Number:	04108-0136	Reported:
Tulsa OK, 74121-1358	Project Manager:	Vanessa Fields	27-Feb-15 16:32

Total Petroleum Hydrocarbons by 418.1 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1509033 - 418 Freon Extraction										
Blank (1509033-BLK1)					Prepared & Analyzed: 26-Feb-15					
Total Petroleum Hydrocarbons	ND	34.9	mg/kg							
Duplicate (1509033-DUP1)					Source: P502053-01 Prepared & Analyzed: 26-Feb-15					
Total Petroleum Hydrocarbons	ND	34.9	mg/kg		ND				30	
Matrix Spike (1509033-MS1)					Source: P502053-01 Prepared & Analyzed: 26-Feb-15					
Total Petroleum Hydrocarbons	1910	34.9	mg/kg	2030	ND	94.0	80-120			

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WPX Energy, Inc.
PO Box 21218
Tulsa OK, 74121-1358

Project Name: Bondad 33-9 #005
Project Number: 04108-0136
Project Manager: Vanessa Fields

Reported:
27-Feb-15 16:32

Cation/Anion Analysis - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1509001 - Anion Extraction EPA 300.0										
Blank (1509001-BLK1)				Prepared & Analyzed: 23-Feb-15						
Chloride	ND	9.98	mg/kg							
LCS (1509001-BS1)				Prepared & Analyzed: 23-Feb-15						
Chloride	472	9.98	mg/kg	499		94.7	90-110			
Matrix Spike (1509001-MS1)				Source: P502076-01 Prepared & Analyzed: 23-Feb-15						
Chloride	591	9.89	mg/kg	494	247	69.7	80-120			SPK1
Matrix Spike Dup (1509001-MSD1)				Source: P502076-01 Prepared & Analyzed: 23-Feb-15						
Chloride	607	9.97	mg/kg	498	247	72.4	80-120	2.73	20	SPK1

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WPX Energy, Inc.
PO Box 21218
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Project Name: Bondad 33-9 #005
Project Number: 04108-0136
Project Manager: Vanessa Fields

Reported:
27-Feb-15 16:32

Boron-Hot Water Soluble by EPA 6010 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1509005 - Boron HW Soluble Digestion										
Blank (1509005-BLK1)					Prepared: 23-Feb-15 Analyzed: 27-Feb-15					
Boron	ND	0.50	mg/L							
Duplicate (1509005-DUP1)					Source: P502053-01 Prepared: 23-Feb-15 Analyzed: 27-Feb-15					
Boron	ND	0.50	mg/L		ND				30	
Matrix Spike (1509005-MS1)					Source: P502053-01 Prepared: 23-Feb-15 Analyzed: 27-Feb-15					
Boron	0.48		mg/L	0.500	0.006	95.7	75-125			

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PO Box 21218
Tulsa OK, 74121-1358

Project Name: Bondad 33-9 #005
Project Number: 04108-0136
Project Manager: Vanessa Fields

Reported:
27-Feb-15 16:32

Notes and Definitions

SPK I The spike recovery for this QC sample is outside of control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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BGT Removal

CHAIN OF CUSTODY RECORD

17425

Client: WDP Energy		Project Name / Location: Bonded 33-2 #005		ANALYSIS / PARAMETERS														
Email results to: Vanessa.Fields@wdepenergy.com		Sampler Name: Robert Brachman																
Client Phone No.: 505-419-6219		Client No.: 04108-0136																
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No. / Volume of Containers	Preservative		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact
					HNO ₃	HCl												
Center SFRA 5A 83B	2/14/15	12:00	P502053-01	2 402			X	X						X	X	X	Y	Y
37.13078-107.81835 Northwell 1A 18																		
37.103078-107.81835 Eastwell 3A 28			-02															
37.13078-107.81835 Southwell 3A 8B			-03															
37.13078-107.81835 Westwell 4A 4B			-04															
37.13078-107.81835 Barnes 2A 5A			-05															
37.13078-107.81835			-06															
Relinquished by: (Signature) 				Date	Time	Received by: (Signature) 		Date		Time								
Relinquished by: (Signature) _____						Received by: (Signature) _____												
Sample Matrix																		
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																		
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																		



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5.7, 7.8, 3.4



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Lynn Berry
EnviroTech- NM
5796 US. Highway 64
Farmington, NM 87401

Report Summary

Tuesday February 24, 2015

Report Number: L749538

Samples Received: 02/19/15

Client Project: 04108-0136

Description: Bondad 33-9 005

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

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SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
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REPORT OF ANALYSIS

February 24, 2015

Lynn Berry
EnviroTech- NM
5796 US. Highway 64
Farmington, NM 87401

ESC Sample # : L749538-01

Date Received : February 19, 2015
Description : Bondad 33-9 005

Site ID : P502053

Sample ID : CENTER OF PIT

Project # : 04108-0136

Collected By : Robert Brad Shaw
Collection Date : 02/14/15 12:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	81.0		%	2540 G-2011	02/22/15	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0074	mg/kg	8270C-SIM	02/20/15	1
Acenaphthene	BDL	0.0074	mg/kg	8270C-SIM	02/20/15	1
Acenaphthylene	BDL	0.0074	mg/kg	8270C-SIM	02/20/15	1
Benzo(a)anthracene	BDL	0.0074	mg/kg	8270C-SIM	02/20/15	1
Benzo(a)pyrene	BDL	0.0074	mg/kg	8270C-SIM	02/20/15	1
Benzo(b)fluoranthene	BDL	0.0074	mg/kg	8270C-SIM	02/20/15	1
Benzo(g,h,i)perylene	BDL	0.0074	mg/kg	8270C-SIM	02/20/15	1
Benzo(k)fluoranthene	BDL	0.0074	mg/kg	8270C-SIM	02/20/15	1
Chrysene	BDL	0.0074	mg/kg	8270C-SIM	02/20/15	1
Dibenz(a,h)anthracene	BDL	0.0074	mg/kg	8270C-SIM	02/20/15	1
Fluoranthene	BDL	0.0074	mg/kg	8270C-SIM	02/20/15	1
Fluorene	BDL	0.0074	mg/kg	8270C-SIM	02/20/15	1
Indeno(1,2,3-cd)pyrene	BDL	0.0074	mg/kg	8270C-SIM	02/20/15	1
Naphthalene	BDL	0.025	mg/kg	8270C-SIM	02/20/15	1
Phenanthrene	BDL	0.0074	mg/kg	8270C-SIM	02/20/15	1
Pyrene	BDL	0.0074	mg/kg	8270C-SIM	02/20/15	1
1-Methylnaphthalene	BDL	0.025	mg/kg	8270C-SIM	02/20/15	1
2-Methylnaphthalene	BDL	0.025	mg/kg	8270C-SIM	02/20/15	1
2-Chloronaphthalene	BDL	0.025	mg/kg	8270C-SIM	02/20/15	1
Surrogate Recovery						
Nitrobenzene-d5	85.3		% Rec.	8270C-SIM	02/20/15	1
2-Fluorobiphenyl	70.7		% Rec.	8270C-SIM	02/20/15	1
p-Terphenyl-d14	59.0		% Rec.	8270C-SIM	02/20/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

February 24, 2015

Lynn Berry
EnviroTech- NM
5796 US. Highway 64
Farmington, NM 87401

ESC Sample # : L749538-02

Date Received : February 19, 2015
Description : Bondad 33-9 005

Site ID : P502053

Sample ID : NORTH WALL

Project # : 04108-0136

Collected By : Robert Brad Shaw
Collection Date : 02/14/15 12:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	82.4		%	2540 G-2011	02/22/15	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Acenaphthene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Acenaphthylene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Benzo(a)anthracene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Benzo(a)pyrene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Benzo(b)fluoranthene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Benzo(g,h,i)perylene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Benzo(k)fluoranthene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Chrysene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Dibenz(a,h)anthracene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Fluoranthene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Fluorene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Indeno(1,2,3-cd)pyrene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Naphthalene	BDL	0.024	mg/kg	8270C-SIM	02/20/15	1
Phenanthrene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Pyrene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
1-Methylnaphthalene	BDL	0.024	mg/kg	8270C-SIM	02/20/15	1
2-Methylnaphthalene	BDL	0.024	mg/kg	8270C-SIM	02/20/15	1
2-Chloronaphthalene	BDL	0.024	mg/kg	8270C-SIM	02/20/15	1
Surrogate Recovery						
Nitrobenzene-d5	90.2		% Rec.	8270C-SIM	02/20/15	1
2-Fluorobiphenyl	76.2		% Rec.	8270C-SIM	02/20/15	1
p-Terphenyl-d14	73.5		% Rec.	8270C-SIM	02/20/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

February 24, 2015

Lynn Berry
EnviroTech- NM
5796 US. Highway 64
Farmington, NM 87401

ESC Sample # : L749538-03

Date Received : February 19, 2015
Description : Bondad 33-9 005

Site ID : P502053

Sample ID : EAST WALL

Project # : 04108-0136

Collected By : Robert Brad Shaw
Collection Date : 02/14/15 12:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	82.0		%	2540 G-2011	02/22/15	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Acenaphthene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Acenaphthylene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Benzo(a)anthracene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Benzo(a)pyrene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Benzo(b)fluoranthene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Benzo(g,h,i)perylene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Benzo(k)fluoranthene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Chrysene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Dibenz(a,h)anthracene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Fluoranthene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Fluorene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Indeno(1,2,3-cd)pyrene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Naphthalene	BDL	0.024	mg/kg	8270C-SIM	02/20/15	1
Phenanthrene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Pyrene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
1-Methylnaphthalene	BDL	0.024	mg/kg	8270C-SIM	02/20/15	1
2-Methylnaphthalene	BDL	0.024	mg/kg	8270C-SIM	02/20/15	1
2-Chloronaphthalene	BDL	0.024	mg/kg	8270C-SIM	02/20/15	1
Surrogate Recovery						
Nitrobenzene-d5	92.7		% Rec.	8270C-SIM	02/20/15	1
2-Fluorobiphenyl	77.5		% Rec.	8270C-SIM	02/20/15	1
p-Terphenyl-d14	75.8		% Rec.	8270C-SIM	02/20/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

February 24, 2015

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EnviroTech- NM
5796 US. Highway 64
Farmington, NM 87401

ESC Sample # : L749538-04

Date Received : February 19, 2015
Description : Bondad 33-9 005

Site ID : P502053

Sample ID : SOUTH WALL

Project # : 04108-0136

Collected By : Robert Brad Shaw
Collection Date : 02/14/15 12:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	81.8		%	2540 G-2011	02/22/15	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Acenaphthene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Acenaphthylene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Benzo(a)anthracene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Benzo(a)pyrene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Benzo(b)fluoranthene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Benzo(g,h,i)perylene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Benzo(k)fluoranthene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Chrysene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Dibenz(a,h)anthracene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Fluoranthene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Fluorene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Indeno(1,2,3-cd)pyrene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Naphthalene	BDL	0.024	mg/kg	8270C-SIM	02/20/15	1
Phenanthrene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
Pyrene	BDL	0.0073	mg/kg	8270C-SIM	02/20/15	1
1-Methylnaphthalene	BDL	0.024	mg/kg	8270C-SIM	02/20/15	1
2-Methylnaphthalene	BDL	0.024	mg/kg	8270C-SIM	02/20/15	1
2-Chloronaphthalene	BDL	0.024	mg/kg	8270C-SIM	02/20/15	1
Surrogate Recovery						
Nitrobenzene-d5	90.8		% Rec.	8270C-SIM	02/20/15	1
2-Fluorobiphenyl	75.2		% Rec.	8270C-SIM	02/20/15	1
p-Terphenyl-d14	71.2		% Rec.	8270C-SIM	02/20/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Est. 1970

REPORT OF ANALYSIS

February 24, 2015

Lynn Berry
EnviroTech- NM
5796 US. Highway 64
Farmington, NM 87401

ESC Sample # : L749538-05

Date Received : February 19, 2015
Description : Bondad 33-9 005

Site ID : P502053

Sample ID : WEST WALL

Project # : 04108-0136

Collected By : Robert Brad Shaw
Collection Date : 02/14/15 12:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	82.9		%	2540 G-2011	02/23/15	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0072	mg/kg	8270C-SIM	02/20/15	1
Acenaphthene	BDL	0.0072	mg/kg	8270C-SIM	02/20/15	1
Acenaphthylene	BDL	0.0072	mg/kg	8270C-SIM	02/20/15	1
Benzo(a)anthracene	BDL	0.0072	mg/kg	8270C-SIM	02/20/15	1
Benzo(a)pyrene	BDL	0.0072	mg/kg	8270C-SIM	02/20/15	1
Benzo(b)fluoranthene	BDL	0.0072	mg/kg	8270C-SIM	02/20/15	1
Benzo(g,h,i)perylene	BDL	0.0072	mg/kg	8270C-SIM	02/20/15	1
Benzo(k)fluoranthene	BDL	0.0072	mg/kg	8270C-SIM	02/20/15	1
Chrysene	BDL	0.0072	mg/kg	8270C-SIM	02/20/15	1
Dibenz(a,h)anthracene	BDL	0.0072	mg/kg	8270C-SIM	02/20/15	1
Fluoranthene	BDL	0.0072	mg/kg	8270C-SIM	02/20/15	1
Fluorene	BDL	0.0072	mg/kg	8270C-SIM	02/20/15	1
Indeno(1,2,3-cd)pyrene	BDL	0.0072	mg/kg	8270C-SIM	02/20/15	1
Naphthalene	BDL	0.024	mg/kg	8270C-SIM	02/20/15	1
Phenanthrene	BDL	0.0072	mg/kg	8270C-SIM	02/20/15	1
Pyrene	BDL	0.0072	mg/kg	8270C-SIM	02/20/15	1
1-Methylnaphthalene	BDL	0.024	mg/kg	8270C-SIM	02/20/15	1
2-Methylnaphthalene	BDL	0.024	mg/kg	8270C-SIM	02/20/15	1
2-Chloronaphthalene	BDL	0.024	mg/kg	8270C-SIM	02/20/15	1
Surrogate Recovery						
Nitrobenzene-d5	87.9		% Rec.	8270C-SIM	02/20/15	1
2-Fluorobiphenyl	72.5		% Rec.	8270C-SIM	02/20/15	1
p-Terphenyl-d14	67.9		% Rec.	8270C-SIM	02/20/15	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

February 24, 2015

Lynn Berry
EnviroTech- NM
5796 US. Highway 64
Farmington, NM 87401

ESC Sample # : L749538-06

Date Received : February 19, 2015
Description : Bondad 33-9 005

Site ID : P502053

Sample ID : PERIMETER OF SITE

Project # : 04108-0136

Collected By : Robert Brad Shaw
Collection Date : 02/14/15 12:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	79.5		%	2540 G-2011	02/23/15	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0075	mg/kg	8270C-SIM	02/20/15	1
Acenaphthene	BDL	0.0075	mg/kg	8270C-SIM	02/20/15	1
Acenaphthylene	BDL	0.0075	mg/kg	8270C-SIM	02/20/15	1
Benzo(a)anthracene	BDL	0.0075	mg/kg	8270C-SIM	02/20/15	1
Benzo(a)pyrene	BDL	0.0075	mg/kg	8270C-SIM	02/20/15	1
Benzo(b)fluoranthene	BDL	0.0075	mg/kg	8270C-SIM	02/20/15	1
Benzo(g,h,i)perylene	BDL	0.0075	mg/kg	8270C-SIM	02/20/15	1
Benzo(k)fluoranthene	BDL	0.0075	mg/kg	8270C-SIM	02/20/15	1
Chrysene	BDL	0.0075	mg/kg	8270C-SIM	02/20/15	1
Dibenz(a,h)anthracene	BDL	0.0075	mg/kg	8270C-SIM	02/20/15	1
Fluoranthene	BDL	0.0075	mg/kg	8270C-SIM	02/20/15	1
Fluorene	BDL	0.0075	mg/kg	8270C-SIM	02/20/15	1
Indeno(1,2,3-cd)pyrene	BDL	0.0075	mg/kg	8270C-SIM	02/20/15	1
Naphthalene	BDL	0.025	mg/kg	8270C-SIM	02/20/15	1
Phenanthrene	BDL	0.0075	mg/kg	8270C-SIM	02/20/15	1
Pyrene	BDL	0.0075	mg/kg	8270C-SIM	02/20/15	1
1-Methylnaphthalene	BDL	0.025	mg/kg	8270C-SIM	02/20/15	1
2-Methylnaphthalene	BDL	0.025	mg/kg	8270C-SIM	02/20/15	1
2-Chloronaphthalene	BDL	0.025	mg/kg	8270C-SIM	02/20/15	1
Surrogate Recovery						
Nitrobenzene-d5	88.8		% Rec.	8270C-SIM	02/20/15	1
2-Fluorobiphenyl	72.3		% Rec.	8270C-SIM	02/20/15	1
p-Terphenyl-d14	68.8		% Rec.	8270C-SIM	02/20/15	1

Results listed are dry weight basis.

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Det. Limit - Practical Quantitation Limit(PQL)

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February 24, 2015

Analyte	Result	Laboratory Blank Units	% Rec	Limit	Batch	Date Analyzed
1-Methylnaphthalene	< .02	mg/kg			WG771282	02/20/15 03:09
2-Chloronaphthalene	< .02	mg/kg			WG771282	02/20/15 03:09
2-Methylnaphthalene	< .02	mg/kg			WG771282	02/20/15 03:09
Acenaphthene	< .006	mg/kg			WG771282	02/20/15 03:09
Acenaphthylene	< .006	mg/kg			WG771282	02/20/15 03:09
Anthracene	< .006	mg/kg			WG771282	02/20/15 03:09
Benzo (a) anthracene	< .006	mg/kg			WG771282	02/20/15 03:09
Benzo (a) pyrene	< .006	mg/kg			WG771282	02/20/15 03:09
Benzo (b) fluoranthene	< .006	mg/kg			WG771282	02/20/15 03:09
Benzo (g, h, i) perylene	< .006	mg/kg			WG771282	02/20/15 03:09
Benzo (k) fluoranthene	< .006	mg/kg			WG771282	02/20/15 03:09
Chrysene	< .006	mg/kg			WG771282	02/20/15 03:09
Dibenz (a, h) anthracene	< .006	mg/kg			WG771282	02/20/15 03:09
Fluoranthene	< .006	mg/kg			WG771282	02/20/15 03:09
Fluorene	< .006	mg/kg			WG771282	02/20/15 03:09
Indeno (1, 2, 3-cd) pyrene	< .006	mg/kg			WG771282	02/20/15 03:09
Naphthalene	< .02	mg/kg			WG771282	02/20/15 03:09
Phenanthrene	< .006	mg/kg			WG771282	02/20/15 03:09
Pyrene	< .006	mg/kg			WG771282	02/20/15 03:09
2-Fluorobiphenyl		% Rec.	73.90	38.2-135	WG771282	02/20/15 03:09
Nitrobenzene-d5		% Rec.	88.00	28.4-151	WG771282	02/20/15 03:09
p-Terphenyl-d14		% Rec.	73.20	34.2-141	WG771282	02/20/15 03:09
Total Solids	< .1	%			WG771493	02/22/15 13:46
Total Solids	< .1	%			WG771496	02/23/15 08:36

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	81.9	81.8	0.0346	5	L749538-04	WG771493
Total Solids	%	82.9	82.8	0.0400	5	L749556-02	WG771496

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1-Methylnaphthalene	mg/kg	.08	0.0683	85.4	48.9-127	WG771282
2-Chloronaphthalene	mg/kg	.08	0.0586	73.2	48.8-125	WG771282
2-Methylnaphthalene	mg/kg	.08	0.0664	83.0	45.7-131	WG771282
Acenaphthene	mg/kg	.08	0.0561	70.1	48.7-127	WG771282
Acenaphthylene	mg/kg	.08	0.0536	66.9	47.9-128	WG771282
Anthracene	mg/kg	.08	0.0671	83.9	51.3-136	WG771282
Benzo (a) anthracene	mg/kg	.08	0.0552	69.0	55-126	WG771282
Benzo (a) pyrene	mg/kg	.08	0.0509	63.6	51.9-127	WG771282
Benzo (b) fluoranthene	mg/kg	.08	0.0570	71.2	54-125	WG771282
Benzo (g, h, i) perylene	mg/kg	.08	0.0658	82.2	53.8-136	WG771282
Benzo (k) fluoranthene	mg/kg	.08	0.0671	83.8	53.9-132	WG771282
Chrysene	mg/kg	.08	0.0700	87.5	55.7-133	WG771282
Dibenz (a, h) anthracene	mg/kg	.08	0.0671	83.8	52.6-137	WG771282
Fluoranthene	mg/kg	.08	0.0623	77.8	54-132	WG771282
Fluorene	mg/kg	.08	0.0568	71.1	48.7-127	WG771282
Indeno (1, 2, 3-cd) pyrene	mg/kg	.08	0.0705	88.1	53.8-138	WG771282
Naphthalene	mg/kg	.08	0.0577	72.2	42-127	WG771282
Phenanthrene	mg/kg	.08	0.0536	67.0	49.6-126	WG771282
Pyrene	mg/kg	.08	0.0590	73.8	54-129	WG771282

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Analyte	Units	Laboratory Control Known Val	Sample Result	% Rec	Limit	Batch
2-Fluorobiphenyl				75.50	38.2-135	
Nitrobenzene-d5				92.90	28.4-151	
p-Terphenyl-d14				75.40	34.2-141	
Total Solids	%	50	50.0	100.	85-115	WG771493
Total Solids	%	50	50.1	100.	85-115	WG771496

Analyte	Units	Laboratory Control Result	Ref	Sample Duplicate %Rec	Limit	RPD	Limit	Batch
1-Methylnaphthalene	mg/kg	0.0705	0.0683	88.0	48.9-127	3.07	20	WG771282
2-Chloronaphthalene	mg/kg	0.0604	0.0586	75.0	48.8-125	3.01	20	WG771282
2-Methylnaphthalene	mg/kg	0.0682	0.0664	85.0	45.7-131	2.66	20	WG771282
Acenaphthene	mg/kg	0.0578	0.0561	72.0	48.7-127	2.98	20	WG771282
Acenaphthylene	mg/kg	0.0549	0.0536	69.0	47.9-128	2.51	20	WG771282
Anthracene	mg/kg	0.0690	0.0671	86.0	51.3-136	2.66	20	WG771282
Benzo(a)anthracene	mg/kg	0.0555	0.0552	69.0	55-126	0.420	20	WG771282
Benzo(a)pyrene	mg/kg	0.0534	0.0509	67.0	51.9-127	4.68	20	WG771282
Benzo(b)fluoranthene	mg/kg	0.0540	0.0570	68.0	54-125	5.32	20	WG771282
Benzo(g,h,i)perylene	mg/kg	0.0671	0.0658	84.0	53.8-136	1.91	20	WG771282
Benzo(k)fluoranthene	mg/kg	0.0753	0.0671	94.0	53.9-132	11.6	20	WG771282
Chrysene	mg/kg	0.0744	0.0700	93.0	55.7-133	6.01	20	WG771282
Dibenz(a,h)anthracene	mg/kg	0.0682	0.0671	85.0	52.6-137	1.71	20	WG771282
Fluoranthene	mg/kg	0.0630	0.0623	79.0	54-132	1.17	20	WG771282
Fluorene	mg/kg	0.0577	0.0568	72.0	48.7-127	1.42	20	WG771282
Indeno(1,2,3-cd)pyrene	mg/kg	0.0716	0.0705	90.0	53.8-138	1.57	20	WG771282
Naphthalene	mg/kg	0.0592	0.0577	74.0	42-127	2.56	20	WG771282
Phenanthrene	mg/kg	0.0544	0.0536	68.0	49.6-126	1.57	20	WG771282
Pyrene	mg/kg	0.0606	0.0590	76.0	54-129	2.69	20	WG771282
2-Fluorobiphenyl				77.40	38.2-135			WG771282
Nitrobenzene-d5				94.20	28.4-151			WG771282
p-Terphenyl-d14				77.30	34.2-141			WG771282

Analyte	Units	MSD	Matrix Spike Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
1-Methylnaphthalene	mg/kg	0.0575	0.0546	69.2	41.8-133	5.21	20.9	L749480-05	WG771282
2-Chloronaphthalene	mg/kg	0.0487	0.0478	60.9	42.4-129	1.94	20	L749480-05	WG771282
2-Methylnaphthalene	mg/kg	0.0570	0.0549	68.6	37.5-137	3.89	20.4	L749480-05	WG771282
Acenaphthene	mg/kg	0.0427	0.0411	53.3	39.4-132	3.63	20	L749480-05	WG771282
Acenaphthylene	mg/kg	0.0416	0.0398	52.0	41.3-132	4.58	20	L749480-05	WG771282
Anthracene	mg/kg	0.0428	0.0460	53.5	36.7-144	7.33	20.7	L749480-05	WG771282
Benzo(a)anthracene	mg/kg	0.0303	0.0368	37.9	28-144	19.3	24.7	L749480-05	WG771282
Benzo(a)pyrene	mg/kg	0.0322	0.0425	40.2	23.8-147	27.8*	25.3	L749480-05	WG771282
Benzo(b)fluoranthene	mg/kg	0.0284	0.0382	34.0	18.2-147	29.2	29.5	L749480-05	WG771282
Benzo(g,h,i)perylene	mg/kg	0.0328	0.0468	38.9	9.2-155	35.1*	29.2	L749480-05	WG771282
Benzo(k)fluoranthene	mg/kg	0.0354	0.0480	43.0	26.5-143	30.2*	26.1	L749480-05	WG771282
Chrysene	mg/kg	0.0392	0.0487	47.6	27.4-150	21.7	25.7	L749480-05	WG771282
Dibenz(a,h)anthracene	mg/kg	0.0357	0.0498	43.6	13.8-150	33.0*	25.8	L749480-05	WG771282
Fluoranthene	mg/kg	0.0367	0.0417	45.0	23.2-158	12.7	26	L749480-05	WG771282
Fluorene	mg/kg	0.0420	0.0416	52.5	30.8-139	1.14	20	L749480-05	WG771282
Indeno(1,2,3-cd)pyrene	mg/kg	0.0344	0.0493	41.7	10.7-155	35.4*	26.9	L749480-05	WG771282
Naphthalene	mg/kg	0.0560	0.0548	68.3	34.9-133	2.19	20.4	L749480-05	WG771282
Phenanthrene	mg/kg	0.0376	0.0382	43.0	20.2-150	1.59	24.6	L749480-05	WG771282
Pyrene	mg/kg	0.0358	0.0385	43.4	22.6-151	7.17	25.1	L749480-05	WG771282
2-Fluorobiphenyl				73.70	38.2-135				WG771282
Nitrobenzene-d5				98.20	28.4-151				WG771282
p-Terphenyl-d14				63.10	34.2-141				WG771282

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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February 24, 2015

Batch number /Run number / Sample number cross reference

WG771282: R3020851 R3020897: L749538-01 02 03 04 05 06
WG771493: R3021079: L749538-01 02 03 04
WG771496: R3021131: L749538-05 06

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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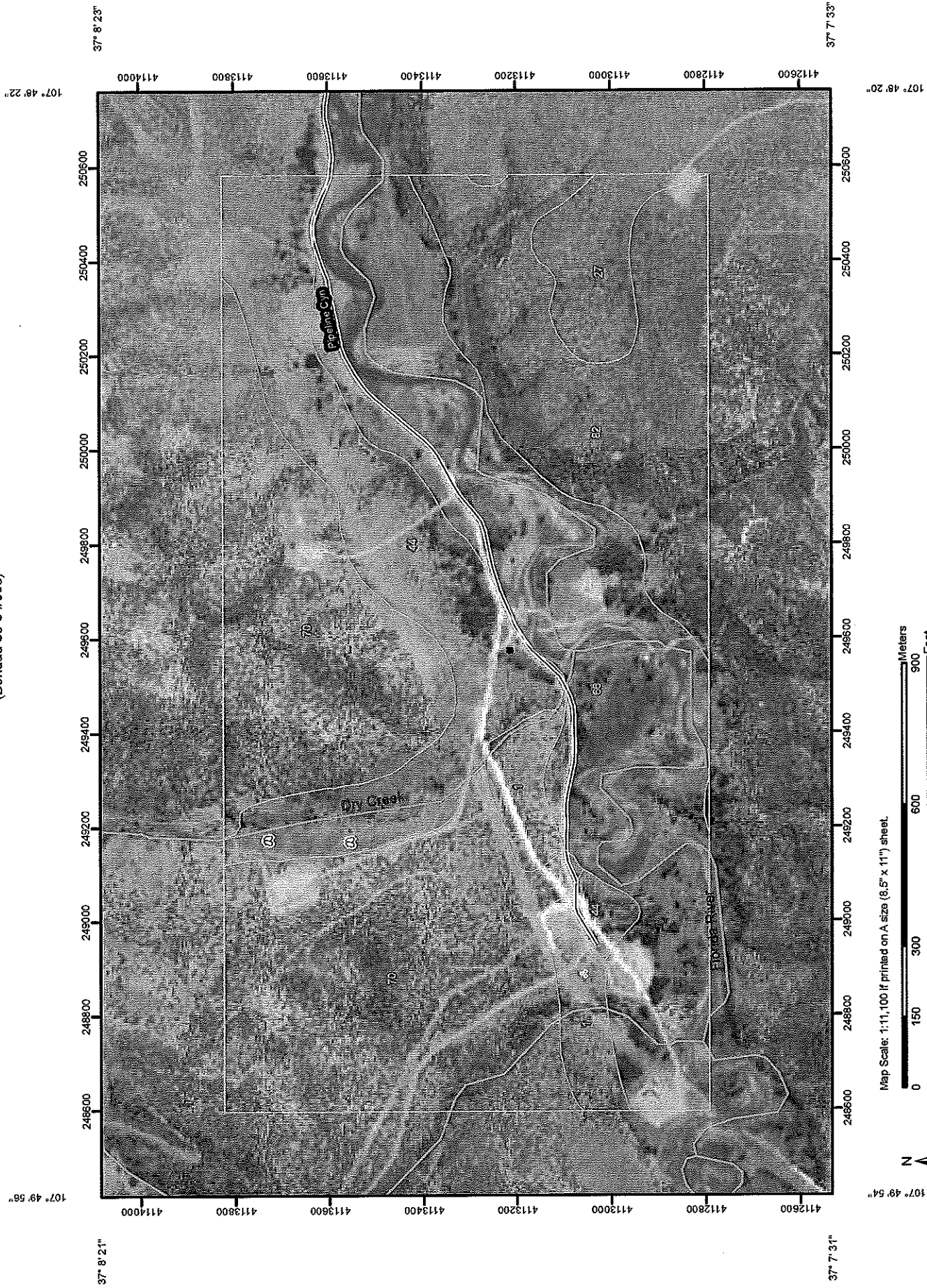
The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.












































Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Soil Map—La Plata County Area, Colorado (Bonded 33-9 #005)



MAP LEGEND

	Area of Interest (AOI)		Very Stony Spot
	Soils		Wet Spot
	Soil Map Units		Other
	Special Point Features		Special Line Features
	Blowout		Gully
	Borrow Pit		Short Steep Slope
	Clay Spot		Other
	Closed Depression		Political Features
	Gravel Pit		Cities
	Gravelly Spot		Water Features
	Landfill		Oceans
	Lava Flow		Streams and Canals
	Marsh or swamp		Transportation
	Mine or Quarry		Rails
	Miscellaneous Water		Interstate Highways
	Perennial Water		US Routes
	Rock Outcrop		Major Roads
	Saline Spot		Local Roads
	Sandy Spot		
	Severely Eroded Spot		
	Sinkhole		
	Slide or Slip		
	Sodic Spot		
	Spoil Area		
	Stony Spot		

MAP INFORMATION

Map Scale: 1:11,100 if printed on A size (8.5" x 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:24,000. Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: UTM Zone 13N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: La Plata County Area, Colorado
Survey Area Data: Version 10, Mar 25, 2008
Date(s) aerial images were photographed: 7/19/2005

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

La Plata County Area, Colorado (CO669)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
1	Agua Fria loam	18.8	3.7%
27	Falfa clay loam, 3 to 8 percent slopes	18.0	3.6%
44	Mikim loam, 3 to 12 percent slopes	82.7	16.4%
66	Teflon loam	135.7	26.8%
70	Ustic Torriorthents-Ustollic Haplargids complex, 12 to 60	172.0	34.0%
82	Zyme-Rock outcrop complex, 12 to 65 percent slopes	78.6	15.5%
Totals for Area of Interest		505.7	100.0%

Bordab 33-9 #5



Bonded 33-8 #5

