

TITANIUM ENVIRONMENTAL SERVICES, LLC

P.O. Box 4029
Longview, Texas 75606-4029

Phone (903) 234-8443
Fax (903) 234-1641

March 10, 2014

New Mexico Oil Conservation District
Hobbs Division
1625 North French Drive
Hobbs, New Mexico 88240

HOBBS OCD

MAR 10 2014

RECEIVED

Re: Release Report
Burk Royalty Energy Division
Cruces No. 6: API No. 025-02462

Dear Mr. Leking,

On behalf of Burk Royalty Co., Ltd (Burk), Titanium Environmental Services, LLC (TES) is reporting a hydrocarbon release of approximately 3 barrels of produced hydrocarbons on February 4, 2014 from Cruces No. 6, API Number 025-02462, which is located on private property approximately 25 miles southwest of Hobbs, New Mexico and contains federal minerals.

The release was immediately confined and affected soil was scraped into a contained waste pile. No waters of New Mexico are in close proximity to the release. Mr. James Van Dyke of TES reported to the site on February 18, 2014 to field-screen for volatile organic compounds (VOCs) and conductivity levels at the affected release area to ensure proper clean-up. The waste pile was also field-screened to verify hydrocarbon levels are suitable for land farming. Each sample was bagged and sealed to be field-screened for VOCs using an MSA Photoionization Detector (PID). Soil from each sample was mixed into a soil/water solution using distilled water and screened for conductivity and pH using an Oakton 10 Series. Results were recorded.

The affected area was approximately 500 square feet. The surface excavation removed all oil with the exception of two discrete locations displaying surface staining. TES collected one waste composite sample, one soil composite sample, and five soil samples from two discrete locations. All samples were preserved on ice and transported to Ana-Lab Corp. in Kilgore, Texas for analysis.

Based on the analytical results, *Surface Composite A* showed levels of VOCs, chlorides, benzene, toluene, ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons (TPH) under the limits provided in New Mexico Administrative Code (NMAC) 19.15.29 and 30 (Table 1). A discrete soil sample, *Cruces 2 0-6"*, collected within the oil-stained area demonstrates levels of TPH on the surface that exceed the limits. However, TPH levels are non-detect at the *Cruces 2 6-12"* sample location at a depth of 6 to 12 inches. Concentrations from soil at the *Cruces 1* location were below the limits for BTEX, TPH, and chlorides. Analytical results demonstrate that no notable leaching occurred in the affected area. Ana-Lab report project numbers 643808 and 643809 are attached for your review.

TES directed Burk to complete surface excavation by removing the two surface oil-stained areas prior to hauling excavated material to Lazy Ace land farm approximately 1 mile west of the release location. The material will be farmed when TPH in the previous

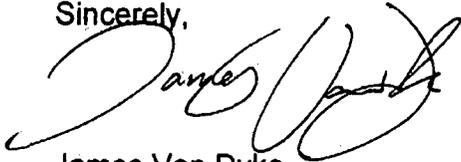
JUN 10 2014

Release Report
Burk Royalty Company, Ltd.
March 10, 2014
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lift is less than 100 parts per million (ppm), the sum of all aromatic hydrocarbons (BTEX) is less than 50 ppm, and benzene is less than 10 ppm.

If you have questions please contact me at (903) 234-8443 or jvandyke@titaniumenvironmental.com. Please advised me if additional information is required.

Sincerely,



James Van Dyke

Enclosures

Table 1. Cruces No.6 Release

Analytical Reports 643808 and 643809

cc: Jon Bear, Burk Royalty Co., Ltd.
Kirk Parker, Burk Royalty Co., Ltd.
Daniel Johns, Ph.D., Titanium Environmental Services, LLC

Burk Royalty Co., Ltd.
 Table 1. Cruces No. 6 Release
 Lea County, New Mexico
 Ana-Lab Project Report 643808 and 643809

Constituent	Title 19, Chapter 15 NMAC	Soil COC Concentration (ppm)						
		Waste Composite	Surface Composite A	Cruces 1 0-6"	Cruces 1 6-12"	Cruces 1 12-24"	Cruces 2 0-6"	Cruces 2 6-12"
SW-846 8260B								
Benzene	10.0	0.115	<0.0185	<0.0193	<0.0240	<0.0195	0.0195	<0.0192
Ethylbenzene	--	6.51	1.44	<0.0531	<0.0660	<0.0536	5.900	0.0827
Toluene	--	32.8	11.3	<0.0531	0.0303 J	<0.0536	12.800	0.0959
m- and p-Xylene	--	14.0	3.96	<0.0531	<0.0660	<0.0536	14.000	0.211
o-Xylene	--	8.07	2.22	<0.0531	<0.0660	<0.0536	7.320	0.110
"BTEX SUM"	50.0	61.5	18.9	<0.0531	0.0303	<0.0536	40.04	0.499
EPA 9056								
Chlorides	1000.0	140	131	443	240	771	1.140 J	1.31 J
TX Method 1005								
C6 to C12 TPH	--	1860	476	<42.5	<52.8	<42.9	2460	<42.1
C12 to C28 TPH	--	13100	2910	<42.5	<52.8	<42.9	15200	<42.1
C28 to C40 TPH	--	2810	645	<37.2	<46.2	<37.5	3460	<36.9
C6 to C40 TPH	5000.0	17770	4031	<42.5	53	<42.9	21120	<42.9

Notes:

--No limit defined

Bold - Analyte detected.

NA - Not analyzed.

Title 19, Chapter 15 New Mexico Administrative Code

Exceeds concentration limits

Laboratory Qualifiers:

J - Analyte detected below quantitation limit.



Results

Report To

Burk Royalty-Cruces #6

Account
TES2-A

Project
643808

Wilson/Dr. Rectenwald
Titanium Environmental
PO Box 4029
Longview, TX 75606

Results

Parameter	Results	Units	RL	Flags	CAS	Bottle
1279128 Waste Composite						<i>Received:</i> 02/19/2014
Solid	Collected by: Client		Affiliation: Titanium Environment		02/18/2014	10:55:00
<hr/>						
	Prepared: 556610		02/21/2014		14:36:00	
EPA 8260B			Analyzed: AAC 02/21/2014		14:36:00 QCgroup	556610
N Benzene	115 *	ug/kg	61.1		71-43-2	01
N Ethylbenzene	6510 *	ug/kg	61.1		100-41-4	01
N Toluene	32800 *	ug/kg	61.1		108-88-3	01
N m- and p-Xylene	14000 *	ug/kg	61.1		ARC-mpXyl	01
N o-Xylene	8070 *	ug/kg	61.1		95-47-6	01
EPA 8260B			Analyzed: CAL 02/28/2014		14:00:23 QCgroup	556610
N Xylenes, Total	22070 *	ug/kg	61.1		1330-20-7	01
	* Dry Weight Basis					
<hr/>						
	Prepared: 556255		02/20/2014		15:26:25	
EPA 9056			Analyzed: WJY 02/22/2014		03:53:02 QCgroup	556589
N Chloride (water extractable)	140 *	mg/kg	18.3			02
	* Dry Weight Basis					
<hr/>						
	Prepared: 557264		02/27/2014		18:09:00	
SM2540 G, 20th /MOD			Analyzed: MLC 02/27/2014		18:09:00 QCgroup	557264
N Total Solids for Dry Wt	81.9	%	0.010			01
<hr/>						
	Prepared: 556257		02/20/2014		15:36:53	
TNRCC 1005 3			Analyzed: BRU 02/20/2014		21:37:00 QCgroup	556368
N C06 to C12 TPH	1860 *	mg/kg	488			03
N C12 to C28 TPH	13100 *	mg/kg	488			03
	* Dry Weight Basis					
<hr/>						
	Prepared: 556257		02/20/2014		15:36:53	
TX Method 1005			Analyzed: BRU 02/20/2014		21:37:00 QCgroup	556368
N C28 to C40 TPH	2810 *	mg/kg	427			03
	* Dry Weight Basis					

1279129 Surface Composite A

Received: 02/19/2014

Solid Collected by: Client Affiliation: Titanium Environment 02/18/2014 11:05:00

	Prepared: 556600		02/21/2014		14:51:00	
EPA 8260B			Analyzed: AAC 02/21/2014		14:51:00 QCgroup	556600
N Benzene	<18.5 *	ug/kg	18.5		71-43-2	01
N Ethylbenzene	1440 *	ug/kg	50.9		100-41-4	01

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662

Corporate: 2600 Dudley Road Kilgore TX 75662



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Results

Results

Parameter	Results	Units	RL	Flags	CAS	Bottle
1279129 Surface Composite A						Received: 02/19/2014
Solid	Collected by: Client		Affiliation: Titanium Environment			02/18/2014 11:05:00
<hr/>						
EPA 8260B			Analyzed: AAC 02/21/2014	14:51:00	QCgroup	556600
N Toluene	11300 *	ug/kg	50.9		108-88-3	01
N m- and p-Xylene	3960 *	ug/kg	50.9		ARC-mpXyl	01
N o-Xylene	2220 *	ug/kg	50.9		95-47-6	01
EPA 8260B			Analyzed: CAL 02/28/2014	14:00:23	QCgroup	556600
N Xylenes, Total	6180 *	ug/kg	50.9		1330-20-7	01
	* Dry Weight Basis					
<hr/>						
	Prepared: 556255		02/20/2014	15:26:25		
EPA 9056			Analyzed: WJY 02/22/2014	04:19:40	QCgroup	556589
N Chloride (water extractable)	131 *	mg/kg	3.05			02
	* Dry Weight Basis					
<hr/>						
	Prepared: 557264		02/27/2014	18:09:00		
SM2540 G, 20th /MOD			Analyzed: MLC 02/27/2014	18:09:00	QCgroup	557264
N Total Solids for Dry Wt	98.3	%	0.010			01
<hr/>						
	Prepared: 556257		02/20/2014	15:36:53		
TNRCC 1005 3			Analyzed: BRU 02/20/2014	21:46:00	QCgroup	556368
N C06 to C12 TPH	476 *	mg/kg	407			03
N C12 to C28 TPH	2910 *	mg/kg	407			03
	* Dry Weight Basis					
<hr/>						
	Prepared: 556257		02/20/2014	15:36:53		
TX Method 1005			Analyzed: BRU 02/20/2014	21:46:00	QCgroup	556368
N C28 to C40 TPH	645 *	mg/kg	356			03
	* Dry Weight Basis					
<hr/>						
1279130 Cruces 2 0-6						Received: 02/19/2014
Solid	Collected by: Client		Affiliation: Titanium Environment			02/18/2014 11:30:00
<hr/>						
	Prepared: 556600		02/21/2014	14:51:00		
EPA 8260B			Analyzed: AAC 02/21/2014	15:46:00	QCgroup	556600
N Benzene	19.5 *	ug/kg	18.7		71-43-2	01
N Ethylbenzene	5900 *	ug/kg	51.3		100-41-4	01
N Toluene	12800 *	ug/kg	51.3		108-88-3	01
N m- and p-Xylene	14000 *	ug/kg	51.3		ARC-mpXyl	01
N o-Xylene	7320 *	ug/kg	51.3		95-47-6	01
EPA 8260B			Analyzed: CAL 02/28/2014	14:00:23	QCgroup	556600
N Xylenes, Total	21320 *	ug/kg	51.3		1330-20-7	01
	* Dry Weight Basis					
<hr/>						
	Prepared: 556255		02/20/2014	15:26:25		
EPA 9056			Analyzed: WJY 02/22/2014	04:46:18	QCgroup	556589
N Chloride (water extractable)	1.14 *	mg/kg	3.08	J		02





Results

Results

Parameter	Results	Units	RL	Flags	CAS	Bottle
1279130 Cruces 2 0-6						Received: 02/19/2014
Solid	Collected by: Client		Affiliation: Titanium Environment			02/18/2014 11:30:00
* Dry Weight Basis						
Prepared: 557264			02/27/2014			18:09:00
SM2540 G, 20th /MOD			Analyzed: MLC 02/27/2014		18:09:00 QCgroup	557264
N Total Solids for Dry Wt	97.4	%		0.010		01
Prepared: 556257			02/20/2014			15:36:53
TNRCC 1005 3			Analyzed: BRU 02/20/2014		21:56:00 QCgroup	556368
N C06 to C12 TPH	2460 *	mg/kg		411		05
N C12 to C28 TPH	15200 *	mg/kg		411		05
* Dry Weight Basis						
Prepared: 556257			02/20/2014			15:36:53
TX Method 1005			Analyzed: BRU 02/20/2014		21:56:00 QCgroup	556368
N C28 to C40 TPH	3460 *	mg/kg		359		05
* Dry Weight Basis						
1279131 Cruces 2 6-12						Received: 02/19/2014
Solid	Collected by: Client		Affiliation: Titanium Environment			02/18/2014 11:40:00
Prepared: 556610			02/21/2014			14:36:00
EPA 8260B			Analyzed: AAC 02/21/2014		15:04:00 QCgroup	556610
N Benzene	<19.2 *	ug/kg		19.2	71-43-2	01
N Ethylbenzene	82.7 *	ug/kg		52.7	100-41-4	01
N Toluene	95.9 *	ug/kg		52.7	108-88-3	01
N m- and p-Xylene	211 *	ug/kg		52.7	ARC-mpXyl	01
N o-Xylene	110 *	ug/kg		52.7	95-47-6	01
EPA 8260B			Analyzed: CAL 02/28/2014		14:00:23 QCgroup	556610
N Xylenes, Total	321 *	ug/kg		52.7	1330-20-7	01
* Dry Weight Basis						
Prepared: 556428			02/21/2014			16:53:19
EPA 9056			Analyzed: WJY 02/23/2014		03:00:12 QCgroup	556752
N Chloride (water extractable)	1.31 *	mg/kg		3.16	J	03
* Dry Weight Basis						
Prepared: 557264			02/27/2014			18:09:00
SM2540 G, 20th /MOD			Analyzed: MLC 02/27/2014		18:09:00 QCgroup	557264
N Total Solids for Dry Wt	94.9	%		0.010		01
Prepared: 556257			02/20/2014			15:36:53
TNRCC 1005 3			Analyzed: BRU 02/20/2014		20:40:00 QCgroup	556368
N C06 to C12 TPH	<42.1 *	mg/kg		42.1		02
N C12 to C28 TPH	<42.1 *	mg/kg		42.1		02
* Dry Weight Basis						





Results

Results

Parameter	Results	Units	RL	Flags	CAS	Bottle
1279131 Cruces 2 6-12						Received: 02/19/2014
Solid	Collected by: Client		Affiliation: Titanium Environment			02/18/2014 11:40:00
	Prepared: 556257		02/20/2014		15:36:53	
TX Method 1005			Analyzed: BRU 02/20/2014		20:40:00 QCgroup	556368
N C28 to C40 TPH	<36.9 *	mg/kg	36.9			02
	* Dry Weight Basis					

Sample Preparation

1279128 Waste Composite						Received: 02/19/2014
	Prepared:		02/19/2014		00:00:00	
			Analyzed: CCP 02/19/2014		00:00:00 QCgroup	
Bottle Temperature on Receipt	<1	degrees				01
	Prepared:		02/28/2014		14:05:20	
Calculation			Analyzed: CAL 02/28/2014		14:05:20 QCgroup	
As Received to Dry Weight Basis		Calculated				
	Prepared:	556255	02/20/2014		15:26:25	
EPA 9056			Analyzed: NTK 02/20/2014		15:26:25 QCgroup	556255
N Water Extract-Ion Chromatography	50/5	grams				01
	Prepared:	556301	02/20/2014		16:00:00	
SW-846 5035			Analyzed: AAC 02/20/2014		16:00:00 QCgroup	556301
N VOC 5035 High Level Extraction	done	grams				01
	Prepared:	556610	02/21/2014		14:36:00	
SW-846 8260B			Analyzed: AAC 02/21/2014		14:36:00 QCgroup	556610
N BTEX Solid Samples by GC/MS	Entered					01
	Prepared:	556257	02/20/2014		15:36:53	
TNRCC 1005 3			Analyzed: BRU 02/20/2014		21:37:00 QCgroup	556368
N Texas1005 TPH Expansion - C40	Entered					.03
	Prepared:	556257	02/20/2014		15:36:53	
TX 1005 3			Analyzed: NTK 02/20/2014		15:36:53 QCgroup	556257
N 1005 TPH Extraction Solid	10/10	grams				01

1279129 Surface Composite A						Received: 02/19/2014
	Prepared:		02/19/2014		00:00:00	
			Analyzed: CCP 02/19/2014		00:00:00 QCgroup	
Bottle Temperature on Receipt	<1	degrees				01

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662

Corporate: 2600 Dudley Road Kilgore TX 75662



NELAP-accredited #T104704201



Results

Sample Preparation

1279129 Surface Composite A

Received: 02/19/2014

		Prepared:	02/28/2014	14:05:20		
Calculation			Analyzed: CAL	02/28/2014	14:05:20	QCgroup
	As Received to Dry Weight Basis		Calculated			
		Prepared:	556255	02/20/2014	15:26:25	
EPA 9056			Analyzed: NTK	02/20/2014	15:26:25	QCgroup 556255
N	Water Extract-Ion Chromatography	50/5	grams			01
		Prepared:	556301	02/20/2014	16:00:00	
SW-846 5035			Analyzed: AAC	02/20/2014	16:00:00	QCgroup 556301
N	VOC 5035 High Level Extraction	done	grams			01
		Prepared:	556600	02/21/2014	14:51:00	
SW-846 8260B			Analyzed: AAC	02/21/2014	14:51:00	QCgroup 556600
N	BTEX Solid Samples by GC/MS	Entered				01
		Prepared:	556257	02/20/2014	15:36:53	
TNRCC 1005 3			Analyzed: BRU	02/20/2014	21:46:00	QCgroup 556368
N	Texas1005 TPH Expansion - C40	Entered				03
		Prepared:	556257	02/20/2014	15:36:53	
TX 1005 3			Analyzed: NTK	02/20/2014	15:36:53	QCgroup 556257
N	1005 TPH Extraction Solid	10/10	grams			01

1279130 Cruces 2 0-6

Received: 02/19/2014

		Prepared:	02/19/2014	00:00:00		
	Bottle Temperature on Receipt	1	degrees	Analyzed: CCP	02/19/2014	00:00:00 QCgroup 01
		Prepared:	02/28/2014	14:05:20		
Calculation			Analyzed: CAL	02/28/2014	14:05:20	QCgroup
	As Received to Dry Weight Basis		Calculated			
		Prepared:	556255	02/20/2014	15:26:25	
EPA 9056			Analyzed: NTK	02/20/2014	15:26:25	QCgroup 556255
N	Water Extract-Ion Chromatography	50/5	grams			01
		Prepared:	556301	02/20/2014	16:00:00	
SW-846 5035			Analyzed: AAC	02/20/2014	16:00:00	QCgroup 556301
N	VOC 5035 High Level Extraction	done	grams			01
		Prepared:	556600	02/21/2014	14:51:00	
SW-846 8260B			Analyzed: AAC	02/21/2014	15:46:00	QCgroup 556600
N	BTEX Solid Samples by GC/MS	Entered				01

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662

Corporate: 2600 Dudley Road Kilgore TX 75662



NELAP-accredited #T104704201



Results

Sample Preparation

1279130	Cruces 2 0-6				Received: 02/19/2014
		Prepared:	556257	02/20/2014	15:36:53
TNRCC 1005 3		Analyzed:	BRU	02/20/2014	21:56:00 QCgroup
N	Texas1005 TPH Expansion - C40	Entered			556368
					05
		Prepared:	556257	02/20/2014	15:36:53
TX 1005 3		Analyzed:	NTK	02/20/2014	15:36:53 QCgroup
N	1005 TPH Extraction Solid	10/10	grams		556257
					01
1279131	Cruces 2 6-12				Received: 02/19/2014
		Prepared:		02/19/2014	00:00:00
		Analyzed:	CCP	02/19/2014	00:00:00 QCgroup
	Bottle Temperature on Receipt	1	degrees		01
		Prepared:		02/28/2014	14:05:20
Calculation		Analyzed:	CAI	02/28/2014	14:05:20 QCgroup
	As Received to Dry Weight Basis	Calculated			
		Prepared:	556428	02/21/2014	16:53:19
EPA 9056		Analyzed:	NTK	02/21/2014	16:53:19 QCgroup
N	Water Extract-Ion Chromatography	50/5	grams		556428
					01
		Prepared:	556301	02/20/2014	16:00:00
SW-846 5035		Analyzed:	AAC	02/20/2014	16:00:00 QCgroup
N	VOC 5035 High Level Extraction	done	grams		556301
					01
		Prepared:	556610	02/21/2014	14:36:00
SW-846 8260B		Analyzed:	AAC	02/21/2014	15:04:00 QCgroup
N	BTEX Solid Samples by GC/MS	Entered			556610
					01
		Prepared:	556257	02/20/2014	15:36:53
TNRCC 1005 3		Analyzed:	BRU	02/20/2014	20:40:00 QCgroup
N	Texas1005 TPH Expansion - C40	Entered			556368
					02
		Prepared:	556257	02/20/2014	15:36:53
TX 1005 3		Analyzed:	NTK	02/20/2014	15:36:53 QCgroup
N	1005 TPH Extraction Solid	10/10	grams		556257
					01





Results

Qualifiers:

J - Analyte detected below quantitation limit

We report results on an 'As Received' or wet basis unless marked 'Dry Weight'. Unless otherwise noted, testing was performed at Ana-lab's corporate laboratory that holds the following Federal and State certificates: Texas Department of Health Lead Firm Certificate 2110076, US Department of Agriculture Soil Import Permit S-37592, Texas Commission on Environmental Quality Drinking Water Laboratory Certificate TX219, Texas Commission on Environmental Quality NELAP T104704201, Oklahoma Department of Environmental Quality Drinking Water Certification Lab ID# D9913, EPA Lab Number TX00063, USEPA Approved Perchlorate Testing Lab, Oklahoma Department of Environmental Quality Laboratory Certificate 8125, Arkansas Department of Environmental Quality Certification #03-070-0, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, LELAP) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) # LA030020, US Department of Energy Approved, State of Kansas Department of Health and Environment Waste Water and Solid/Hazardous Waste Cert. E-10365. The Accredited column designates accreditation by N -- NELAC, or z -- not covered under NELAC scope of accreditation.

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of Ana-Lab Corp. Unless otherwise specified, these test results meet the requirements of NELAC.

RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number.

C. H. Whiteside, Ph.D., President





Results

Report To

Wilson/Dr. Rectenwald
Titanium Environmental
PO Box 4029
Longview, TX 75606

Burk Royalty-Cruces #6

Account
TES2-A

Project
643809

Results

Parameter	Results	Units	RL	Flags	CAS	Bottle
1279132	Cruces 1 0-6					<i>Received:</i> 02/19/2014
Solid	<i>Collected by:</i> Client		<i>Affiliation:</i>	Titanium Environment		02/18/2014 11:10:00
<i>Prepared:</i>		556610	<i>02/21/2014</i>		<i>15:33:00</i>	
EPA 8260B			<i>Analyzed: AAC</i>	<i>02/21/2014</i>	<i>15:33:00</i>	<i>QCgroup</i> 556610
N Benzene	<19.3 *	ug/kg	19.3		71-43-2	01
N Ethylbenzene	<53.1 *	ug/kg	53.1		100-41-4	01
N Toluene	<53.1 *	ug/kg	53.1		108-88-3	01
N m- and p-Xylene	<53.1 *	ug/kg	53.1		ARC-mpXyl	01
N o-Xylene	<53.1 *	ug/kg	53.1		95-47-6	01
EPA 8260B			<i>Analyzed: CAL</i>	<i>02/28/2014</i>	<i>14:00:24</i>	<i>QCgroup</i> 556610
N Xylenes, Total	<53.1 *	ug/kg	53.1		1330-20-7	01
	* Dry Weight Basis					
<i>Prepared:</i>		556428	<i>02/21/2014</i>		<i>16:53:19</i>	
EPA 9056			<i>Analyzed: WJY</i>	<i>02/23/2014</i>	<i>03:26:53</i>	<i>QCgroup</i> 556752
N Chloride (water extractable)	443 *	mg/kg	15.9			03
	* Dry Weight Basis					
<i>Prepared:</i>		557264	<i>02/27/2014</i>		<i>18:09:00</i>	
SM2540 G, 20th /MOD			<i>Analyzed: MLC</i>	<i>02/27/2014</i>	<i>18:09:00</i>	<i>QCgroup</i> 557264
N Total Solids for Dry Wt	94.2	%	0.010			01
<i>Prepared:</i>		556257	<i>02/20/2014</i>		<i>15:36:53</i>	
TNRCC 1005 3			<i>Analyzed: BRU</i>	<i>02/20/2014</i>	<i>20:50:00</i>	<i>QCgroup</i> 556368
N C06 to C12 TPH	<42.5 *	mg/kg	42.5			02
N C12 to C28 TPH	<42.5 *	mg/kg	42.5			02
	* Dry Weight Basis					
<i>Prepared:</i>		556257	<i>02/20/2014</i>		<i>15:36:53</i>	
TX Method 1005			<i>Analyzed: BRU</i>	<i>02/20/2014</i>	<i>20:50:00</i>	<i>QCgroup</i> 556368
N C28 to C40 TPH	<37.2 *	mg/kg	37.2			02
	* Dry Weight Basis					

1279133 Cruces 1 6-12

Received: 02/19/2014

Solid *Collected by:* Client *Affiliation:* Titanium Environment 02/18/2014 11:15:00

<i>Prepared:</i>		556610	<i>02/21/2014</i>		<i>15:33:00</i>	
EPA 8260B			<i>Analyzed: AAC</i>	<i>02/21/2014</i>	<i>16:02:00</i>	<i>QCgroup</i> 556610
N Benzene	<24.0 *	ug/kg	24.0		71-43-2	01
N Ethylbenzene	<66.0 *	ug/kg	66.0		100-41-4	01

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Results

Results

Parameter	Results	Units	RL	Flags	CAS	Bottle
1279133 Cruces 1 6-12						Received: 02/19/2014
Solid	Collected by: Client		Affiliation: Titanium Environment		02/18/2014	11:15:00
<hr/>						
EPA 8260B			Analyzed: AAC 02/21/2014	16:02:00	QCgroup	556610
N Toluene	30.3 *	ug/kg	66.0	J	108-88-3	01
N m- and p-Xylene	<66.0 *	ug/kg	66.0		ARC-mpXyl	01
N o-Xylene	<66.0 *	ug/kg	66.0		95-47-6	01
EPA 8260B			Analyzed: CAL 02/28/2014	14:00:24	QCgroup	556610
N Xylenes, Total	<66.0 *	ug/kg	66.0		1330-20-7	01
	* Dry Weight Basis					
<hr/>						
	Prepared: 556428		02/21/2014	16:53:19		
EPA 9056			Analyzed: WJY 02/23/2014	03:53:35	QCgroup	556752
N Chloride (water extractable)	240 *	mg/kg	3.96			03
	* Dry Weight Basis					
<hr/>						
	Prepared: 557264		02/27/2014	18:09:00		
SM2540 G, 20th /MOD			Analyzed: MLC 02/27/2014	18:09:00	QCgroup	557264
N Total Solids for Dry Wt	75.8	%	0.010			01
<hr/>						
	Prepared: 556257		02/20/2014	15:36:53		
TNRCC 1005 3			Analyzed: BRU 02/20/2014	20:59:00	QCgroup	556368
N C06 to C12 TPH	<52.8 *	mg/kg	52.8			02
N C12 to C28 TPH	<52.8 *	mg/kg	52.8			02
	* Dry Weight Basis					
<hr/>						
	Prepared: 556257		02/20/2014	15:36:53		
TX Method 1005			Analyzed: BRU 02/20/2014	20:59:00	QCgroup	556368
N C28 to C40 TPH	<46.2 *	mg/kg	46.2			02
	* Dry Weight Basis					
<hr/>						
1279134 Cruces 1 12-24						Received: 02/19/2014
Solid	Collected by: Client		Affiliation: Titanium Environment		02/18/2014	11:20:00
<hr/>						
	Prepared: 556610		02/21/2014	15:33:00		
EPA 8260B			Analyzed: AAC 02/21/2014	16:30:00	QCgroup	556610
N Benzene	<19.5 *	ug/kg	19.5		71-43-2	01
N Ethylbenzene	<53.6 *	ug/kg	53.6		100-41-4	01
N Toluene	<53.6 *	ug/kg	53.6		108-88-3	01
N m- and p-Xylene	<53.6 *	ug/kg	53.6		ARC-mpXyl	01
N o-Xylene	<53.6 *	ug/kg	53.6		95-47-6	01
EPA 8260B			Analyzed: CAL 02/28/2014	14:00:24	QCgroup	556610
N Xylenes, Total	<53.6 *	ug/kg	53.6		1330-20-7	01
	* Dry Weight Basis					
<hr/>						
	Prepared: 556428		02/21/2014	16:53:19		
EPA 9056			Analyzed: WJY 02/23/2014	04:20:17	QCgroup	556752
N Chloride (water extractable)	771 *	mg/kg	32.2			03





Results

Results

Parameter	Results	Units	RL	Flags	CAS	Bottle
1279134 Cruces 1 12-24						Received: 02/19/2014
Solid	Collected by: Client		Affiliation: Titanium Environment		02/18/2014	11:20:00
* Dry Weight Basis						
Prepared: 557264			02/27/2014		18:09:00	
SM2540 G, 20th /MOD			Analyzed: MLC	02/27/2014	18:09:00	QCgroup 557264
N Total Solids for Dry Wt	93.3	%		0.010		01
Prepared: 556257			02/20/2014		15:36:53	
TNRCC 1005 3			Analyzed: BRU	02/20/2014	21:08:00	QCgroup 556368
N C06 to C12 TPH	<42.9 *	mg/kg		42.9		02
N C12 to C28 TPH	<42.9 *	mg/kg		42.9		02
* Dry Weight Basis						
Prepared: 556257			02/20/2014		15:36:53	
TX Method 1005			Analyzed: BRU	02/20/2014	21:08:00	QCgroup 556368
N C28 to C40 TPH	<37.5 *	mg/kg		37.5		02
* Dry Weight Basis						

Sample Preparation

1279132 Cruces 1 0-6						Received: 02/19/2014
Prepared:			02/19/2014		00:00:00	
Analyzed: CCP			02/19/2014		00:00:00	QCgroup
Bottle Temperature on Receipt	1	degrees				01
Prepared:			02/28/2014		14:05:20	
Calculation		Calculated	Analyzed: CAI	02/28/2014	14:05:20	QCgroup
As Received to Dry Weight Basis						
Prepared: 556428			02/21/2014		16:53:19	
EPA 9056			Analyzed: NTK	02/21/2014	16:53:19	QCgroup 556428
N Water Extract-Ion Chromatography	50/5	grams				01
Prepared: 556301			02/20/2014		16:00:00	
SW-846 5035			Analyzed: AAC	02/20/2014	16:00:00	QCgroup 556301
N VOC 5035 High Level Extraction	done	grams				01
Prepared: 556610			02/21/2014		15:33:00	
SW-846 8260B			Analyzed: AAC	02/21/2014	15:33:00	QCgroup 556610
N BTEX Solid Samples by GC/MS	Entered					01
Prepared: 556257			02/20/2014		15:36:53	
TNRCC 1005 3			Analyzed: BRU	02/20/2014	20:50:00	QCgroup 556368
N Texas1005 TPH Expansion - C40	Entered					02





Results

Sample Preparation

1279132	Cruces 1 0-6				Received: 02/19/2014
		Prepared:	556257	02/20/2014	15:36:53
TX 1005 3				Analyzed: NTK 02/20/2014	15:36:53 QCgroup 556257
N	1005 TPH Extraction Solid		10/10	grams	01
1279133	Cruces 1 6-12				Received: 02/19/2014
		Prepared:		02/19/2014	00:00:00
	Bottle Temperature on Receipt		<1	degrees	01
		Analyzed: CCP 02/19/2014			00:00:00 QCgroup
		Prepared:		02/28/2014	14:05:20
Calculation	As Received to Dry Weight Basis		Calculated	Analyzed: CAL 02/28/2014	14:05:20 QCgroup
EPA 9056		Prepared:	556428	02/21/2014	16:53:19
N	Water Extract-Ion Chromatography		50/5	grams	16:53:19 QCgroup 556428
		Prepared:	556301	02/20/2014	16:00:00
SW-846 5035				Analyzed: AAC 02/20/2014	16:00:00 QCgroup 556301
N	VOC 5035 High Level Extraction		done	grams	01
		Prepared:	556610	02/21/2014	15:33:00
SW-846 8260B				Analyzed: AAC 02/21/2014	16:02:00 QCgroup 556610
N	BTEX Solid Samples by GC/MS		Entered		01
		Prepared:	556257	02/20/2014	15:36:53
TNRCC 1005 3				Analyzed: BRU 02/20/2014	20:59:00 QCgroup 556368
N	Texas1005 TPH Expansion - C40		Entered		02
		Prepared:	556257	02/20/2014	15:36:53
TX 1005 3				Analyzed: NTK 02/20/2014	15:36:53 QCgroup 556257
N	1005 TPH Extraction Solid		10/10	grams	01
1279134	Cruces 1 12-24				Received: 02/19/2014
		Prepared:		02/19/2014	00:00:00
	Bottle Temperature on Receipt		<1	degrees	01
		Analyzed: CCP 02/19/2014			00:00:00 QCgroup
		Prepared:		02/28/2014	14:05:20
Calculation	As Received to Dry Weight Basis		Calculated	Analyzed: CAL 02/28/2014	14:05:20 QCgroup

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Results

Sample Preparation

1279134 Cruces 1 12-24		Received: 02/19/2014			
		Prepared:	556428	02/21/2014	16:53:19
EPA 9056		Analyzed:	NTK	02/21/2014	16:53:19 QCgroup 556428
N	Water Extract-Ion Chromatography		50/5	grams	01
		Prepared:	556301	02/20/2014	16:00:00
SW-846 5035		Analyzed:	AAC	02/20/2014	16:00:00 QCgroup 556301
N	VOC 5035 High Level Extraction		done	grams	01
		Prepared:	556610	02/21/2014	15:33:00
SW-846 8260B		Analyzed:	AAC	02/21/2014	16:30:00 QCgroup 556610
N	BTEX Solid Samples by GC/MS		Entered		01
		Prepared:	556257	02/20/2014	15:36:53
TNRCC 1005 3		Analyzed:	BRU	02/20/2014	21:08:00 QCgroup 556368
N	Texas1005 TPH Expansion - C40		Entered		02
		Prepared:	556257	02/20/2014	15:36:53
TX 1005 3		Analyzed:	NTK	02/20/2014	15:36:53 QCgroup 556257
N	1005 TPH Extraction Solid		10/10	grams	01

Qualifiers:

J - Analyte detected below quantitation limit

We report results on an 'As Received' or wet basis unless marked 'Dry Weight'. Unless otherwise noted, testing was performed at Ana-lab's corporate laboratory that holds the following Federal and State certificates: Texas Department of Health Lead Firm Certificate 2110076, US Department of Agriculture Soil Import Permit S-37592, Texas Commission on Environmental Quality Drinking Water Laboratory Certificate TX219, Texas Commission on Environmental Quality NELAP T104704201, Oklahoma Department of Environmental Quality Drinking Water Certification Lab ID# D9913, EPA Lab Number TX00063, USEPA Approved Perchlorate Testing Lab, Oklahoma Department of Environmental Quality Laboratory Certificate 8125, Arkansas Department of Environmental Quality Certification #03-070-0, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, LELAP) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) # LA030020, US Department of Energy Approved, State of Kansas Department of Health and Environment Waste Water and Solid/Hazardous Waste Cert. E-10365. The Accredited column designates accreditation by N -- NELAC, or z -- not covered under NELAC scope of accreditation.

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RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number.





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Results

C. H. Whiteside, Ph.D., President



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