

Client Sample Re

Client: Pioneer Natural Resources USA, Inc.
Project/Site: Soil Testing Suite

Received 01/08/2015
REM 8853
Document 2313604

Job ID: 280-63841-1

Client Sample ID: BOBSY 34-11TR NATIVE NORTH

Lab Sample ID: 280-63841-1

Date Collected: 12/18/14 12:54

Matrix: Solid

Date Received: 12/20/14 10:40

Percent Solids: 90.4

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.3		0.11		mg/Kg	☆	12/23/14 08:30	12/24/14 17:20	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.6		0.10		%			12/23/14 21:23	1

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: Soil Testing Suite

TestAmerica Job ID: 280-63841-1

Client Sample ID: BOBSY 34-11TR NATIVE EAST

Lab Sample ID: 280-63841-2

Date Collected: 12/18/14 13:00

Matrix: Solid

Date Received: 12/20/14 10:40

Percent Solids: 92.3

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.7		0.093		mg/Kg	☆	12/23/14 08:30	12/24/14 17:24	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.7		0.10		%			12/23/14 21:23	1

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: Soil Testing Suite

TestAmerica Job ID: 280-63841-1

Client Sample ID: BOBSY 34-11TR NATIVE SOUTH

Lab Sample ID: 280-63841-3

Date Collected: 12/18/14 13:05

Matrix: Solid

Date Received: 12/20/14 10:40

Percent Solids: 94.0

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		0.097		mg/Kg	☆	12/23/14 08:30	12/24/14 17:28	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.0		0.10		%			12/23/14 21:23	1

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: Soil Testing Suite

TestAmerica Job ID: 280-63841-1

Client Sample ID: BOBSY 34-11TR NATIVE WEST

Lab Sample ID: 280-63841-4

Date Collected: 12/18/14 13:10

Matrix: Solid

Date Received: 12/20/14 10:40

Percent Solids: 95.6

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0		0.093		mg/Kg	☆	12/23/14 08:30	12/24/14 17:32	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.4		0.10		%			12/23/14 21:23	1

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: Soil Testing Suite

TestAmerica Job ID: 280-63841-1

Client Sample ID: BOBSY 34-11TR TOP OF PIT

Lab Sample ID: 280-63841-5

Date Collected: 12/18/14 13:15

Matrix: Solid

Date Received: 12/20/14 10:40

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	3.0		1.2		No Unit		12/22/14 17:57	12/31/14 03:06	10

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.6		0.096		mg/Kg	☼	12/23/14 08:30	12/24/14 17:36	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.3		0.10		%			12/23/14 21:23	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	9.89		0.100		SU			12/27/14 13:52	1
Specific Conductance	40		2.0		umhos/cm			12/23/14 18:51	1

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: Soil Testing Suite

TestAmerica Job ID: 280-63841-1

Client Sample ID: BOBSY 34-11TR BOTTOM OF PIT

Lab Sample ID: 280-63841-6

Date Collected: 12/18/14 13:25

Matrix: Solid

Date Received: 12/20/14 10:40

Percent Solids: 86.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.7		ug/Kg	☼	12/24/14 12:53	12/24/14 13:31	1
Ethylbenzene	ND		5.7		ug/Kg	☼	12/24/14 12:53	12/24/14 13:31	1
Toluene	ND		5.7		ug/Kg	☼	12/24/14 12:53	12/24/14 13:31	1
Xylenes, Total	ND		5.7		ug/Kg	☼	12/24/14 12:53	12/24/14 13:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		58 - 140	12/24/14 12:53	12/24/14 13:31	1
Toluene-d8 (Surr)	101		80 - 126	12/24/14 12:53	12/24/14 13:31	1
4-Bromofluorobenzene (Surr)	99		76 - 127	12/24/14 12:53	12/24/14 13:31	1
Dibromofluoromethane (Surr)	92		75 - 121	12/24/14 12:53	12/24/14 13:31	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		1.3		mg/Kg	☼	12/24/14 09:42	12/24/14 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	106		77 - 123	12/24/14 09:42	12/24/14 19:38	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	7.5		4.5		mg/Kg	☼	12/22/14 19:11	12/30/14 14:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	69		49 - 115	12/22/14 19:11	12/30/14 14:53	1

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	12		1.2		No Unit	—	12/22/14 17:57	12/31/14 03:09	10

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	63		1.1		mg/Kg	☼	12/23/14 08:30	12/29/14 23:49	1
Boron	ND		11		mg/Kg	☼	12/23/14 08:30	12/29/14 23:49	1
Cadmium	ND		0.56		mg/Kg	☼	12/23/14 08:30	12/29/14 23:49	1
Calcium	2400		56		mg/Kg	☼	12/23/14 08:30	12/29/14 23:49	1
Magnesium	1200		22		mg/Kg	☼	12/23/14 08:30	12/31/14 17:07	1
Molybdenum	ND		2.2		mg/Kg	☼	12/23/14 08:30	12/29/14 23:49	1
Silver	ND	^	1.1		mg/Kg	☼	12/23/14 08:30	12/29/14 23:49	1
Sodium	1300		560		mg/Kg	☼	12/23/14 08:30	12/29/14 23:49	1

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.3		0.10		mg/Kg	☼	12/23/14 08:30	12/24/14 17:47	1
Chromium	4.5		0.20		mg/Kg	☼	12/23/14 08:30	12/24/14 17:47	1
Copper	5.0		0.25		mg/Kg	☼	12/23/14 08:30	12/24/14 17:47	1
Lead	4.1		0.10		mg/Kg	☼	12/23/14 08:30	12/24/14 17:47	1
Nickel	4.9		0.15		mg/Kg	☼	12/23/14 08:30	12/24/14 17:47	1
Selenium	ND		0.20		mg/Kg	☼	12/23/14 08:30	12/24/14 17:47	1
Zinc	16		1.0		mg/Kg	☼	12/23/14 08:30	12/24/14 17:47	1

TestAmerica Denver

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: Soil Testing Suite

TestAmerica Job ID: 280-63841-1

Client Sample ID: BOBSY 34-11TR BOTTOM OF PIT

Lab Sample ID: 280-63841-6

Date Collected: 12/18/14 13:25

Matrix: Solid

Date Received: 12/20/14 10:40

Percent Solids: 86.9

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		19		ug/Kg	☼	12/23/14 07:00	12/23/14 13:14	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		0.10		%	—		12/23/14 21:23	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	7.94		0.100		SU	—		12/27/14 13:52	1
Specific Conductance	290		2.0		umhos/cm	—		12/23/14 18:51	1