

received 05/13/2014
Project 8449
Remediation 200406074

Client Sample Results

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

TestAmerica Job ID: 280-54740-1

Client Sample ID: BGR 12-11 NATIVE NORTH
Date Collected: 04/23/14 14:03
Date Received: 04/26/14 08:50

Lab Sample ID: 280-54740-7
Matrix: Solid
Percent Solids: 88.1

Method: 6020 - Metals (ICP/MS)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	2.3		0.11		mg/Kg	☆	04/29/14 07:30	04/29/14 15:56	1	

General Chemistry										
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Percent Moisture	12		0.10		%			04/30/14 13:26	1	

Client Sample Results

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

TestAmerica Job ID: 280-54740-1

Client Sample ID: BGR 12-11 NATIVE EAST

Lab Sample ID: 280-54740-8

Date Collected: 04/23/14 14:07

Matrix: Solid

Date Received: 04/26/14 08:50

Percent Solids: 88.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.9		0.11		mg/Kg	☼	04/29/14 07:30	04/29/14 15:59	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11		0.10		%	—		04/30/14 13:26	1

Client Sample Results

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

TestAmerica Job ID: 280-54740-1

Client Sample ID: BGR 12-11 NATIVE SOUTH

Lab Sample ID: 280-54740-9

Date Collected: 04/23/14 14:09

Matrix: Solid

Date Received: 04/26/14 08:50

Percent Solids: 84.7

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.5		0.11		mg/Kg	☼	04/29/14 07:30	04/29/14 16:03	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15		0.10		%			04/30/14 13:26	1

Client Sample Results

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

TestAmerica Job ID: 280-54740-1

Client Sample ID: BGR 12-11 NATIVE WEST

Lab Sample ID: 280-54740-10

Date Collected: 04/23/14 14:12

Matrix: Solid

Date Received: 04/26/14 08:50

Percent Solids: 85.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.6		0.11		mg/Kg	☼	04/29/14 07:30	04/29/14 16:07	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15		0.10		%	—		04/30/14 13:26	1

Client Sample Results

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

TestAmerica Job ID: 280-54740-1

Client Sample ID: BGR 12-11 TOP OF PIT

Lab Sample ID: 280-54740-11

Date Collected: 04/23/14 14:15

Matrix: Solid

Date Received: 04/26/14 08:50

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	ND		1.2		No Unit		04/28/14 12:54	05/02/14 04:00	10

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.2		0.11		mg/Kg	☼	04/29/14 07:30	04/29/14 16:10	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		0.10		%			04/30/14 13:26	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.80		0.100		SU			04/27/14 13:30	1
Specific Conductance	360		19		umhos/cm			04/27/14 13:29	1

Client Sample Results

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

TestAmerica Job ID: 280-54740-1

Client Sample ID: BGR 12-11 BOTTOM OF PIT

Lab Sample ID: 280-54740-12

Date Collected: 04/23/14 14:19

Matrix: Solid

Date Received: 04/26/14 08:50

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		7.1		ug/Kg	☼	04/29/14 16:30	04/30/14 03:21	1
Ethylbenzene	ND		7.1		ug/Kg	☼	04/29/14 16:30	04/30/14 03:21	1
Toluene	ND		7.1		ug/Kg	☼	04/29/14 16:30	04/30/14 03:21	1
Xylenes, Total	ND		7.1		ug/Kg	☼	04/29/14 16:30	04/30/14 03:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		58 - 140	04/29/14 16:30	04/30/14 03:21	1
Toluene-d8 (Surr)	107		80 - 126	04/29/14 16:30	04/30/14 03:21	1
4-Bromofluorobenzene (Surr)	114		76 - 127	04/29/14 16:30	04/30/14 03:21	1
Dibromofluoromethane (Surr)	94		75 - 121	04/29/14 16:30	04/30/14 03:21	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		1.5		mg/Kg	☼	04/29/14 15:59	05/01/14 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	84		77 - 123	04/29/14 15:59	05/01/14 00:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	84		4.7		mg/Kg	☼	04/30/14 10:45	05/01/14 12:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	75		49 - 115	04/30/14 10:45	05/01/14 12:20	1

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	9.2		1.2		No Unit	—	04/28/14 12:54	05/02/14 04:02	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	380		1.1		mg/Kg	☼	04/29/14 07:30	04/30/14 02:05	1
Boron	ND		11		mg/Kg	☼	04/29/14 07:30	04/30/14 02:05	1
Cadmium	ND		0.54		mg/Kg	☼	04/29/14 07:30	04/30/14 02:05	1
Calcium	7400		54		mg/Kg	☼	04/29/14 07:30	04/30/14 02:05	1
Magnesium	2200		22		mg/Kg	☼	04/29/14 07:30	04/30/14 02:05	1
Molybdenum	ND		2.2		mg/Kg	☼	04/29/14 07:30	04/30/14 02:05	1
Silver	ND		1.1		mg/Kg	☼	04/29/14 07:30	04/30/14 02:05	1
Sodium	540		540		mg/Kg	☼	04/29/14 07:30	04/30/14 02:05	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.4		0.12		mg/Kg	☼	04/29/14 07:30	04/29/14 16:14	1
Chromium	9.2		0.23		mg/Kg	☼	04/29/14 07:30	04/29/14 16:14	1
Copper	35		0.29		mg/Kg	☼	04/29/14 07:30	04/29/14 16:14	1
Lead	19		0.12		mg/Kg	☼	04/29/14 07:30	04/29/14 16:14	1
Nickel	12		0.17		mg/Kg	☼	04/29/14 07:30	04/29/14 16:14	1
Selenium	0.74		0.23		mg/Kg	☼	04/29/14 07:30	04/29/14 16:14	1
Zinc	74		1.2		mg/Kg	☼	04/29/14 07:30	04/29/14 16:14	1

TestAmerica Denver

Client Sample Results

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

TestAmerica Job ID: 280-54740-1

Client Sample ID: BGR 12-11 BOTTOM OF PIT

Lab Sample ID: 280-54740-12

Date Collected: 04/23/14 14:19

Matrix: Solid

Date Received: 04/26/14 08:50

Percent Solids: 81.4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	87		19		ug/Kg	☼	04/30/14 11:35	04/30/14 19:52	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		0.10		%	—		04/29/14 13:10	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	9.10		0.100		SU	—		04/27/14 13:30	1
Specific Conductance	570		20		umhos/cm	—		04/27/14 13:29	1