

Client Sample Results

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

TestAm

RECEIVED 10/16/2014
REM 8683
SPILL 200414329
FACILITY 261231
DOC 2142170

Client Sample ID: LORENCITO 13-5-34-66 OFFSITE PIT

Lab Sample ID: 280-59364-1

NATIVE NORTH

Date Collected: 08/26/14 11:15

Matrix: Solid

Date Received: 08/27/14 10:00

Percent Solids: 92.2

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.3		0.096		mg/Kg	☼	09/03/14 14:15	09/04/14 07:22	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.8		0.10		%			09/04/14 09:39	1

Client Sample Results

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

TestAmerica Job ID: 280-59364-1

Client Sample ID: LORENCITO 13-5-34-66 OFFSITE PIT

Lab Sample ID: 280-59364-2

NATIVE EAST

Date Collected: 08/26/14 11:20

Matrix: Solid

Date Received: 08/27/14 10:00

Percent Solids: 94.3

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.7		0.10		mg/Kg	☼	09/03/14 14:15	09/04/14 07:26	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.7		0.10		%			09/04/14 09:39	1

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
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TestAmerica Job ID: 280-59364-1

Client Sample ID: LORENCITO 13-5-34-66 OFFSITE PIT

Lab Sample ID: 280-59364-3

NATIVE SOUTH

Date Collected: 08/26/14 11:25

Matrix: Solid

Date Received: 08/27/14 10:00

Percent Solids: 88.6

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.7		0.10		mg/Kg	☼	09/03/14 14:15	09/04/14 07:30	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11		0.10		%			09/04/14 09:39	1

Client Sample Results

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

TestAmerica Job ID: 280-59364-1

Client Sample ID: LORENCITO 13-5-34-66 OFFSITE PIT

Lab Sample ID: 280-59364-4

NATIVE WEST

Date Collected: 08/26/14 11:30

Matrix: Solid

Date Received: 08/27/14 10:00

Percent Solids: 93.3

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.4		0.097		mg/Kg	☼	09/03/14 14:15	09/04/14 07:34	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.7		0.10		%			09/04/14 09:39	1

Client Sample Results

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

TestAmerica Job ID: 280-59364-1

Client Sample ID: LORENCITO 13-5-34-66 OFFSITE PIT TOP OF PIT

Lab Sample ID: 280-59364-5

Date Collected: 08/26/14 11:35

Matrix: Solid

Date Received: 08/27/14 10:00

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		08/28/14 15:59	09/03/14 13:45	10

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0		0.14		mg/Kg	☼	09/03/14 14:15	09/04/14 07:45	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31		0.10		%			09/04/14 09:39	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.52		0.100		SU			09/04/14 18:10	1
Specific Conductance	45		2.0		umhos/cm			09/04/14 18:08	1

Client Sample Results

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

TestAmerica Job ID: 280-59364-1

Client Sample ID: LORENCITO 13-5-34-66 OFFSITE PIT

Lab Sample ID: 280-59364-6

BOTTOM OF PIT

Date Collected: 08/26/14 11:40

Matrix: Solid

Date Received: 08/27/14 10:00

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.5		ug/Kg	☼	08/28/14 20:00	08/29/14 05:16	1
Ethylbenzene	ND		5.5		ug/Kg	☼	08/28/14 20:00	08/29/14 05:16	1
Toluene	ND		5.5		ug/Kg	☼	08/28/14 20:00	08/29/14 05:16	1
Xylenes, Total	ND		5.5		ug/Kg	☼	08/28/14 20:00	08/29/14 05:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		58 - 140	08/28/14 20:00	08/29/14 05:16	1
Toluene-d8 (Surr)	107		80 - 126	08/28/14 20:00	08/29/14 05:16	1
4-Bromofluorobenzene (Surr)	117		76 - 127	08/28/14 20:00	08/29/14 05:16	1
Dibromofluoromethane (Surr)	100		75 - 121	08/28/14 20:00	08/29/14 05:16	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		1.4		mg/Kg	☼	09/02/14 15:33	09/03/14 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	86		77 - 123	09/02/14 15:33	09/03/14 18:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	19		4.7		mg/Kg	☼	08/28/14 10:00	08/29/14 22:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	80		49 - 115	08/28/14 10:00	08/29/14 22:55	1

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		08/28/14 15:59	09/03/14 13:48	10

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	200		1.0		mg/Kg	☼	08/28/14 14:45	08/29/14 16:45	1
Boron	ND		10		mg/Kg	☼	08/28/14 14:45	08/29/14 16:45	1
Cadmium	ND		0.52		mg/Kg	☼	08/28/14 14:45	08/29/14 16:45	1
Calcium	5000		52		mg/Kg	☼	08/28/14 14:45	08/29/14 16:45	1
Magnesium	3500		21		mg/Kg	☼	08/28/14 14:45	08/29/14 16:45	1
Molybdenum	ND		2.1		mg/Kg	☼	08/28/14 14:45	08/29/14 16:45	1
Silver	ND		1.0		mg/Kg	☼	08/28/14 14:45	09/02/14 12:06	1
Sodium	ND	^	520		mg/Kg	☼	08/28/14 14:45	08/29/14 16:45	1

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.3		0.12		mg/Kg	☼	08/28/14 14:45	09/03/14 14:58	1
Chromium	21		0.23		mg/Kg	☼	08/28/14 14:45	09/03/14 14:58	1
Copper	49		0.29		mg/Kg	☼	08/28/14 14:45	09/03/14 14:58	1
Lead	18		0.12		mg/Kg	☼	08/28/14 14:45	09/03/14 14:58	1
Nickel	22		0.17		mg/Kg	☼	08/28/14 14:45	09/03/14 14:58	1
Selenium	0.67		0.23		mg/Kg	☼	08/28/14 14:45	09/03/14 14:58	1
Zinc	99		1.2		mg/Kg	☼	08/28/14 14:45	09/03/14 14:58	1

TestAmerica Denver

Client Sample Results

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

TestAmerica Job ID: 280-59364-1

Client Sample ID: LORENCITO 13-5-34-66 OFFSITE PIT

Lab Sample ID: 280-59364-6

BOTTOM OF PIT

Date Collected: 08/26/14 11:40

Matrix: Solid

Date Received: 08/27/14 10:00

Percent Solids: 84.9

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	53		19		ug/Kg	☼	08/29/14 10:30	08/29/14 18:58	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15		0.10		%	—		08/29/14 16:16	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.51		0.100		SU	—		09/04/14 18:10	1
Specific Conductance	49		2.0		umhos/cm	—		09/04/14 18:08	1