

Client Sample Results

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

RECEIVED 10/16/2014
REM 8681
SPILL 200414328
FACILITY 258380
DOC 2142126

Client Sample ID: LORENCITO 1-20-34-66 OFFSITE NATIVE
NORTH

Lab Sample ID: 280-57798-1

Date Collected: 07/15/14 10:34
Date Received: 07/16/14 09:30

Matrix: Solid
Percent Solids: 90.7

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.2		0.096		mg/Kg	☼	07/17/14 14:50	07/17/14 22:36	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.3		0.10		%			07/18/14 13:28	1

Client Sample Results

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

TestAmerica Job ID: 280-57798-1

Client Sample ID: LORENCITO 1-20-34-66 OFFSITE NATIVE EAST

Lab Sample ID: 280-57798-2

Date Collected: 07/15/14 10:40

Matrix: Solid

Date Received: 07/16/14 09:30

Percent Solids: 91.2

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.8		0.11		mg/Kg	☼	07/17/14 14:50	07/17/14 22:39	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.8		0.10		%			07/18/14 13:28	1

Client Sample Results

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

TestAmerica Job ID: 280-57798-1

Client Sample ID: LORENCITO 1-20-34-66 OFFSITE NATIVE SOUTH

Lab Sample ID: 280-57798-3

Date Collected: 07/15/14 10:45

Matrix: Solid

Date Received: 07/16/14 09:30

Percent Solids: 90.8

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		0.099		mg/Kg	☼	07/17/14 14:50	07/17/14 22:43	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.2		0.10		%			07/18/14 13:28	1



Client Sample Results

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

TestAmerica Job ID: 280-57798-1

Client Sample ID: LORENCITO 1-20-34-66 OFFSITE NATIVE

Lab Sample ID: 280-57798-4

WEST

Date Collected: 07/15/14 10:50

Matrix: Solid

Date Received: 07/16/14 09:30

Percent Solids: 93.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.7		0.10		mg/Kg	☼	07/17/14 14:50	07/17/14 22:46	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.9		0.10		%			07/18/14 13:28	1

Client Sample Results

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

TestAmerica Job ID: 280-57798-1

Client Sample ID: LORENCITO 1-20-34-66 OFFSITE TOP OF PIT

Lab Sample ID: 280-57798-5

Date Collected: 07/15/14 10:55

Matrix: Solid

Date Received: 07/16/14 09:30

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	4.5		1.2		No Unit	—	07/17/14 09:57	07/24/14 18:27	10

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.3		0.10		mg/Kg	☼	07/17/14 14:50	07/17/14 22:49	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		0.10		%	—		07/18/14 13:28	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.21		0.100		SU	—		07/22/14 15:46	1
Specific Conductance	240		20		umhos/cm	—		07/23/14 13:43	1

Client Sample Results

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

TestAmerica Job ID: 280-57798-1

Client Sample ID: LORENCITO 1-20-34-66 OFFSITE BOTTOM OF PIT

Lab Sample ID: 280-57798-6

Date Collected: 07/15/14 11:00

Matrix: Solid

Date Received: 07/16/14 09:30

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		7.0		ug/Kg	☼	07/21/14 19:00	07/22/14 02:44	1
Ethylbenzene	ND		7.0		ug/Kg	☼	07/21/14 19:00	07/22/14 02:44	1
Toluene	ND		7.0		ug/Kg	☼	07/21/14 19:00	07/22/14 02:44	1
Xylenes, Total	ND		7.0		ug/Kg	☼	07/21/14 19:00	07/22/14 02:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	71		58 - 140	07/21/14 19:00	07/22/14 02:44	1
Toluene-d8 (Surr)	119		80 - 126	07/21/14 19:00	07/22/14 02:44	1
4-Bromofluorobenzene (Surr)	116		76 - 127	07/21/14 19:00	07/22/14 02:44	1
Dibromofluoromethane (Surr)	90		75 - 121	07/21/14 19:00	07/22/14 02:44	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	☼	07/18/14 11:05	07/18/14 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		77 - 123	07/18/14 11:05	07/18/14 19:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	16		4.5		mg/Kg	☼	07/18/14 11:21	07/22/14 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	77		49 - 115	07/18/14 11:21	07/22/14 22:41	1

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	1.9		1.2		No Unit		07/17/14 09:57	07/24/14 18:30	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	340		1.2		mg/Kg	☼	07/17/14 14:50	07/23/14 19:04	1
Boron	ND		12		mg/Kg	☼	07/17/14 14:50	07/23/14 19:04	1
Cadmium	ND		0.58		mg/Kg	☼	07/17/14 14:50	07/23/14 19:04	1
Calcium	4000		58		mg/Kg	☼	07/17/14 14:50	07/23/14 19:04	1
Magnesium	3200		23		mg/Kg	☼	07/17/14 14:50	07/23/14 19:04	1
Molybdenum	ND		2.3		mg/Kg	☼	07/17/14 14:50	07/23/14 19:04	1
Silver	ND		1.2		mg/Kg	☼	07/17/14 14:50	07/23/14 19:04	1
Sodium	ND		580		mg/Kg	☼	07/17/14 14:50	07/23/14 19:04	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		0.11		mg/Kg	☼	07/17/14 14:50	07/17/14 22:52	1
Chromium	14		0.22		mg/Kg	☼	07/17/14 14:50	07/17/14 22:52	1
Copper	36		0.27		mg/Kg	☼	07/17/14 14:50	07/17/14 22:52	1
Lead	18		0.11		mg/Kg	☼	07/17/14 14:50	07/17/14 22:52	1
Nickel	17		0.16		mg/Kg	☼	07/17/14 14:50	07/17/14 22:52	1
Selenium	2.2		0.22		mg/Kg	☼	07/17/14 14:50	07/17/14 22:52	1
Zinc	83		1.1		mg/Kg	☼	07/17/14 14:50	07/17/14 22:52	1

TestAmerica Denver

Client Sample Results

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

TestAmerica Job ID: 280-57798-1

**Client Sample ID: LORENCITO 1-20-34-66 OFFSITE BOTTOM
OF PIT**

Lab Sample ID: 280-57798-6

Date Collected: 07/15/14 11:00

Matrix: Solid

Date Received: 07/16/14 09:30

Percent Solids: 85.5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	38		18		ug/Kg	☼	07/18/14 10:00	07/18/14 14:28	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15		0.10		%	—		07/18/14 11:17	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	7.62		0.100		SU	—		07/22/14 15:46	1
Specific Conductance	210		20		umhos/cm	—		07/23/14 13:43	1