

received 03/31/2014
Project 8302
Remediation 200400836
API 071-07060

Client Sample Results

Resources USA, Inc.

TestAmerica Job ID: 280-53230-1

Project Site: San Joaquin Delta

Client Sample ID: LORENCITO14-32 OFFSITE TOP OF PIT
Date Collected: 03/17/14 13:04
Date Received: 03/18/14 10:00
Lab Sample ID: 280-53230-6
Matrix: Solid

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		03/20/14 15:30	03/26/14 19:36	10
Method: 6020 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.2		0.10		mg/Kg	☼	03/20/14 08:00	03/20/14 16:20	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.2		0.10		%			03/21/14 21:04	1
General Chemistry - Soluble									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.61		0.100		SU			03/21/14 19:56	1
Specific Conductance	320		20		umhos/cm			03/26/14 21:29	1

Client Sample Results

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

TestAmerica Job ID: 280-53230-1

Client Sample ID: LORENCITO14-32 OFFSITE BOTTOM OF PIT

Lab Sample ID: 280-53230-7

Date Collected: 03/17/14 13:07

Matrix: Solid

Date Received: 03/18/14 10:00

Percent Solids: 72.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.7		ug/Kg	☼	03/26/14 15:00	03/27/14 00:40	1
Ethylbenzene	ND		6.7		ug/Kg	☼	03/26/14 15:00	03/27/14 00:40	1
Toluene	ND		6.7		ug/Kg	☼	03/26/14 15:00	03/27/14 00:40	1
Xylenes, Total	ND		6.7		ug/Kg	☼	03/26/14 15:00	03/27/14 00:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		58 - 140	03/26/14 15:00	03/27/14 00:40	1
Toluene-d8 (Surr)	121		80 - 126	03/26/14 15:00	03/27/14 00:40	1
4-Bromofluorobenzene (Surr)	128	X	76 - 127	03/26/14 15:00	03/27/14 00:40	1
Dibromofluoromethane (Surr)	108		75 - 121	03/26/14 15:00	03/27/14 00:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND		1.6		mg/Kg	☼	03/24/14 14:19	03/25/14 12:16	1
-C6-C10									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	69	X	77 - 123	03/24/14 14:19	03/25/14 12:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	30		5.4		mg/Kg	☼	03/21/14 17:35	03/25/14 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	70		49 - 115	03/21/14 17:35	03/25/14 16:36	1

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	38		1.2		No Unit		03/20/14 15:30	03/26/14 19:38	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	310		1.3		mg/Kg	☼	03/20/14 13:00	03/21/14 02:49	1
Boron	ND		13		mg/Kg	☼	03/20/14 13:00	03/21/14 02:49	1
Cadmium	ND		0.66		mg/Kg	☼	03/20/14 13:00	03/21/14 02:49	1
Calcium	9800		66		mg/Kg	☼	03/20/14 13:00	03/21/14 02:49	1
Magnesium	5100		26		mg/Kg	☼	03/20/14 13:00	03/21/14 02:49	1
Molybdenum	ND		2.6		mg/Kg	☼	03/20/14 13:00	03/21/14 02:49	1
Silver	ND		1.3		mg/Kg	☼	03/20/14 13:00	03/21/14 02:49	1
Sodium	1900		660		mg/Kg	☼	03/20/14 13:00	03/21/14 02:49	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.7		0.12		mg/Kg	☼	03/20/14 08:00	03/20/14 16:31	1
Chromium	25		0.25		mg/Kg	☼	03/20/14 08:00	03/20/14 16:31	1
Copper	39		0.31		mg/Kg	☼	03/20/14 08:00	03/20/14 16:31	1
Lead	15		0.12		mg/Kg	☼	03/20/14 08:00	03/20/14 16:31	1
Nickel	35		0.19		mg/Kg	☼	03/20/14 08:00	03/20/14 16:31	1
Selenium	0.46		0.25		mg/Kg	☼	03/20/14 08:00	03/20/14 16:31	1
Zinc	77		1.2		mg/Kg	☼	03/20/14 08:00	03/20/14 16:31	1

TestAmerica Denver

Client Sample Results

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

TestAmerica Job ID: 280-53230-1

Client Sample ID: LORENCITO14-32 OFFSITE BOTTOM OF PIT

Lab Sample ID: 280-53230-7

Date Collected: 03/17/14 13:07

Matrix: Solid

Date Received: 03/18/14 10:00

Percent Solids: 72.3

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	38		22		ug/Kg	☼	03/21/14 11:05	03/21/14 17:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.55		mg/Kg	☼	03/27/14 11:46	03/28/14 10:57	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	25		2.0		mg/Kg	—		03/30/14 11:25	1
Percent Moisture	28		0.10		%			03/21/14 00:09	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.73		0.100		SU	—		03/21/14 19:56	1
Specific Conductance	1500		20		umhos/cm			03/26/14 21:29	1

TestAmerica Denver

Client Sample Results

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

TestAmerica Job ID: 280-53230-1

Client Sample ID: LORENCITO14-32 OFFSITE NATIVE WEST

Lab Sample ID: 280-53230-8

Date Collected: 03/17/14 13:15

Matrix: Solid

Date Received: 03/18/14 10:00

Percent Solids: 84.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.4		0.11		mg/Kg	☼	03/20/14 08:00	03/20/14 16:49	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		0.10		%			03/21/14 21:04	1

Client Sample Results

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

TestAmerica Job ID: 280-53230-1

Client Sample ID: LORENCITO14-32 OFFSITE NATIVE NORTH

Lab Sample ID: 280-53230-9

Date Collected: 03/17/14 13:17

Matrix: Solid

Date Received: 03/18/14 10:00

Percent Solids: 89.5

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.6		0.098		mg/Kg	☼	03/20/14 08:00	03/20/14 16:53	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10		0.10		%	—		03/21/14 21:04	1

Client Sample Results

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

TestAmerica Job ID: 280-53230-1

Client Sample ID: LORENCITO14-32 OFFSITE NATIVE EAST

Lab Sample ID: 280-53230-10

Date Collected: 03/17/14 13:19

Matrix: Solid

Date Received: 03/18/14 10:00

Percent Solids: 89.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.9		0.11		mg/Kg	☼	03/20/14 08:00	03/20/14 16:57	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11		0.10		%	—		03/21/14 21:04	1

Client Sample Results

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

TestAmerica Job ID: 280-53230-1

Client Sample ID: LORENCITO14-32 OFFSITE NATIVE SOUTH

Lab Sample ID: 280-53230-11

Date Collected: 03/17/14 13:20

Matrix: Solid

Date Received: 03/18/14 10:00

Percent Solids: 82.3

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		0.12		mg/Kg	☼	03/20/14 08:00	03/20/14 17:00	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18		0.10		%	—		03/21/14 21:04	1