

Client Sample Res

Client: Pioneer Natural Resources USA, Inc.
Project/Site: Routine/Non-Routine Soils

received 02/13/2012
Project 6841
Remediation 200340267

b ID: 280-25188-1

Client Sample ID: MIDDLE FORK DEEP 31-20 TOP OF PIT

Lab Sample ID: 280-25188-4

Date Collected: 01/31/12 13:01

Matrix: Solid

Date Received: 02/01/12 09:45

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	2.87		1.20		No Unit		02/07/12 08:00	02/09/12 07:06	10

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.57		0.107		mg/Kg	☆	02/02/12 14:00	02/02/12 23:00	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11		0.10		%			02/02/12 09:06	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.91		0.0100		SU			02/02/12 17:45	1
Specific Conductance	48.8		2.02		umhos/cm			02/04/12 15:43	1

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: Routine/Non-Routine Soils

TestAmerica Job ID: 280-25188-1

Client Sample ID: MIDDLE FORK DEEP 31-20 BOTTOM OF PIT

Lab Sample ID: 280-25188-5

Date Collected: 01/31/12 13:05

Matrix: Solid

Date Received: 02/01/12 09:45

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.76		ug/Kg	☼	02/02/12 06:00	02/02/12 12:40	1
Ethylbenzene	ND		5.76		ug/Kg	☼	02/02/12 06:00	02/02/12 12:40	1
Toluene	ND		5.76		ug/Kg	☼	02/02/12 06:00	02/02/12 12:40	1
Xylenes, Total	ND		5.76		ug/Kg	☼	02/02/12 06:00	02/02/12 12:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		58 - 140	02/02/12 06:00	02/02/12 12:40	1
Toluene-d8 (Surr)	126		80 - 126	02/02/12 06:00	02/02/12 12:40	1
4-Bromofluorobenzene (Surr)	140	X	76 - 127	02/02/12 06:00	02/02/12 12:40	1
Dibromofluoromethane (Surr)	62	X	75 - 121	02/02/12 06:00	02/02/12 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND		1.39		mg/Kg	☼	02/02/12 15:24	02/03/12 15:06	1
-C6-C10									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	77		77 - 123	02/02/12 15:24	02/03/12 15:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	31.2		4.74		mg/Kg	☼	02/01/12 17:20	02/04/12 00:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	103		49 - 115	02/01/12 17:20	02/04/12 00:24	1

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	16.3		1.20		No Unit		02/07/12 08:00	02/09/12 07:06	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	250		1.18		mg/Kg	☼	02/03/12 08:45	02/03/12 18:03	1
Boron	ND		11.8		mg/Kg	☼	02/03/12 08:45	02/03/12 18:03	1
Cadmium	ND		0.592		mg/Kg	☼	02/03/12 08:45	02/03/12 18:03	1
Calcium	11500		59.8		mg/Kg	☼	02/07/12 14:00	02/08/12 01:10	1
Magnesium	2930		23.7		mg/Kg	☼	02/03/12 08:45	02/03/12 18:03	1
Molybdenum	ND		2.37		mg/Kg	☼	02/03/12 08:45	02/03/12 18:03	1
Silver	ND		1.18		mg/Kg	☼	02/03/12 08:45	02/03/12 18:03	1
Sodium	2410		592		mg/Kg	☼	02/03/12 08:45	02/03/12 18:03	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.12		0.109		mg/Kg	☼	02/02/12 14:00	02/02/12 23:22	1
Chromium	13.1		0.216		mg/Kg	☼	02/06/12 14:00	02/06/12 21:24	1
Copper	27.0		0.272		mg/Kg	☼	02/02/12 14:00	02/02/12 23:22	1
Lead	17.4		0.109		mg/Kg	☼	02/02/12 14:00	02/02/12 23:22	1
Nickel	14.5		0.163		mg/Kg	☼	02/02/12 14:00	02/02/12 23:22	1
Selenium	1.39		0.216		mg/Kg	☼	02/06/12 14:00	02/06/12 21:24	1
Zinc	73.0		1.09		mg/Kg	☼	02/02/12 14:00	02/02/12 23:22	1

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: Routine/Non-Routine Soils

TestAmerica Job ID: 280-25188-1

Client Sample ID: MIDDLE FORK DEEP 31-20 BOTTOM OF PIT

Lab Sample ID: 280-25188-5

Date Collected: 01/31/12 13:05

Matrix: Solid

Date Received: 02/01/12 09:45

Percent Solids: 83.6

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	21.0		19.1		ug/Kg	☆	02/07/12 14:10	02/07/12 18:26	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		0.10		%			02/02/12 09:06	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	11.2		0.0100		SU			02/02/12 18:18	1
Specific Conductance	260		2.00		umhos/cm			02/04/12 15:43	1

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: Routine/Non-Routine Soils

TestAmerica Job ID: 280-25188-1

Client Sample ID: MIDDLE FORK DEEP 31-20 NATIVE NORTH

Lab Sample ID: 280-25188-6

Date Collected: 01/31/12 13:13

Matrix: Solid

Date Received: 02/01/12 09:45

Percent Solids: 89.5

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.38		0.107		mg/Kg	☼	02/02/12 14:00	02/02/12 23:25	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10		0.10		%	—		02/02/12 09:06	1

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: Routine/Non-Routine Soils

TestAmerica Job ID: 280-25188-1

Client Sample ID: MIDDLE FORK DEEP 31-20 NATIVE EAST

Lab Sample ID: 280-25188-7

Date Collected: 01/31/12 13:17

Matrix: Solid

Date Received: 02/01/12 09:45

Percent Solids: 88.4

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.40		0.0966		mg/Kg	☼	02/02/12 14:00	02/02/12 23:28	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12		0.10		%	—		02/02/12 09:06	1



Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: Routine/Non-Routine Soils

TestAmerica Job ID: 280-25188-1

Client Sample ID: MIDDLE FORK DEEP 31-20 NATIVE SOUTH

Lab Sample ID: 280-25188-8

Date Collected: 01/31/12 13:20

Matrix: Solid

Date Received: 02/01/12 09:45

Percent Solids: 83.7

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.51		0.112		mg/Kg	☼	02/02/12 14:00	02/02/12 23:31	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		0.10		%	—		02/02/12 09:06	1

Client Sample Results

Client: Pioneer Natural Resources USA, Inc.
Project/Site: Routine/Non-Routine Soils

TestAmerica Job ID: 280-25188-1

Client Sample ID: MIDDLE FORK DEEP 31-20 NATIVE WEST

Lab Sample ID: 280-25188-9

Date Collected: 01/31/12 13:23

Matrix: Solid

Date Received: 02/01/12 09:45

Percent Solids: 72.5

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.44		0.122		mg/Kg	☼	02/02/12 14:00	02/02/12 23:34	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27		0.10		%	—		02/02/12 09:06	1