

Client Sample Results

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

Received 11/18/2014
Project 8783
Document 2313295

Job ID: 280-61883-1

Client Sample ID: PANHEAD 32-8 TOP OF PIT

Lab Sample ID: 280-61883-7

Date Collected: 10/28/14 10:28

Matrix: Solid

Date Received: 10/29/14 09:40

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	2.7		1.2		No Unit		10/30/14 23:03	11/05/14 18:03	10

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.9		0.090		mg/Kg	☼	11/03/14 08:15	11/03/14 19:24	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.4		0.10		%			10/31/14 12:21	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	7.90		0.100		SU			11/01/14 09:48	1
Specific Conductance	350		20		umhos/cm			11/04/14 11:34	1

Client Sample Results

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

TestAmerica Job ID: 280-61883-1

Client Sample ID: PANHEAD 32-8 BOTTOM OF PIT

Lab Sample ID: 280-61883-8

Date Collected: 10/28/14 10:31

Matrix: Solid

Date Received: 10/29/14 09:40

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.3		ug/Kg	☼	11/03/14 17:00	11/03/14 21:33	1
Ethylbenzene	ND		5.3		ug/Kg	☼	11/03/14 17:00	11/03/14 21:33	1
Toluene	ND		5.3		ug/Kg	☼	11/03/14 17:00	11/03/14 21:33	1
Xylenes, Total	ND		5.3		ug/Kg	☼	11/03/14 17:00	11/03/14 21:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		58 - 140	11/03/14 17:00	11/03/14 21:33	1
Toluene-d8 (Surr)	102		80 - 126	11/03/14 17:00	11/03/14 21:33	1
4-Bromofluorobenzene (Surr)	97		76 - 127	11/03/14 17:00	11/03/14 21:33	1
Dibromofluoromethane (Surr)	104		75 - 121	11/03/14 17:00	11/03/14 21:33	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	☼	11/03/14 13:42	11/05/14 04:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	94		77 - 123	11/03/14 13:42	11/05/14 04:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	25		4.7		mg/Kg	☼	11/04/14 13:09	11/08/14 11:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	74		49 - 115	11/04/14 13:09	11/08/14 11:30	1

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	100		1.2		No Unit	—	10/30/14 23:03	11/05/14 18:05	10

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	190		1.1		mg/Kg	☼	11/03/14 15:15	11/05/14 21:14	1
Boron	ND		11		mg/Kg	☼	11/03/14 15:15	11/06/14 14:55	1
Cadmium	ND		0.57		mg/Kg	☼	11/03/14 15:15	11/05/14 21:14	1
Calcium	6600		57		mg/Kg	☼	11/03/14 15:15	11/06/14 14:55	1
Magnesium	3600		23		mg/Kg	☼	11/03/14 15:15	11/05/14 21:14	1
Molybdenum	ND		2.3		mg/Kg	☼	11/03/14 15:15	11/05/14 21:14	1
Silver	ND		1.1		mg/Kg	☼	11/03/14 15:15	11/06/14 14:55	1
Sodium	ND		570		mg/Kg	☼	11/03/14 15:15	11/06/14 14:55	1

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.5		0.11		mg/Kg	☼	11/03/14 08:15	11/03/14 19:27	1
Chromium	24		0.23		mg/Kg	☼	11/03/14 08:15	11/03/14 19:27	1
Copper	33		0.28		mg/Kg	☼	11/03/14 08:15	11/03/14 19:27	1
Lead	14		0.11		mg/Kg	☼	11/03/14 08:15	11/03/14 19:27	1
Nickel	19		0.17		mg/Kg	☼	11/03/14 08:15	11/03/14 19:27	1
Selenium	0.27		0.23		mg/Kg	☼	11/03/14 08:15	11/03/14 19:27	1
Zinc	87		1.1		mg/Kg	☼	11/03/14 08:15	11/03/14 19:27	1

TestAmerica Denver

Client Sample Results

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

TestAmerica Job ID: 280-61883-1

Client Sample ID: PANHEAD 32-8 BOTTOM OF PIT

Lab Sample ID: 280-61883-8

Date Collected: 10/28/14 10:31

Matrix: Solid

Date Received: 10/29/14 09:40

Percent Solids: 80.8

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	47		19		ug/Kg	☼	11/04/14 07:30	11/04/14 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.50		mg/Kg	☼	11/07/14 14:36	11/08/14 15:53	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	24		2.0		mg/Kg	—		11/13/14 07:57	1
Percent Moisture	19		0.10		%			10/31/14 12:21	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	9.15		0.100		SU	—		11/01/14 09:51	1
Specific Conductance	3200		20		umhos/cm			11/04/14 11:34	1

TestAmerica Denver

Client Sample Results

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

TestAmerica Job ID: 280-61883-1

Client Sample ID: PANHEAD 32-8 NATIVE WEST

Lab Sample ID: 280-61883-9

Date Collected: 10/28/14 10:38

Matrix: Solid

Date Received: 10/29/14 09:40

Percent Solids: 73.5

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.6		0.12		mg/Kg	☼	11/03/14 08:15	11/03/14 19:31	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26		0.10		%	—		10/31/14 12:21	1

Client Sample Results

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

TestAmerica Job ID: 280-61883-1

Client Sample ID: PANHEAD 32-8 NATIVE NORTH

Lab Sample ID: 280-61883-10

Date Collected: 10/28/14 10:40

Matrix: Solid

Date Received: 10/29/14 09:40

Percent Solids: 93.4

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.4		0.091		mg/Kg	☆	11/03/14 08:15	11/03/14 19:35	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.6		0.10		%			10/31/14 12:21	1

Client Sample Results

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

TestAmerica Job ID: 280-61883-1

Client Sample ID: PANHEAD 32-8 NATIVE EAST

Lab Sample ID: 280-61883-11

Date Collected: 10/28/14 10:42

Matrix: Solid

Date Received: 10/29/14 09:40

Percent Solids: 76.0

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.5		0.12		mg/Kg	☆	11/03/14 08:15	11/03/14 19:38	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		0.10		%			10/31/14 12:21	1

Client Sample Results

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

TestAmerica Job ID: 280-61883-1

Client Sample ID: PANHEAD 32-8 NATIVE SOUTH

Lab Sample ID: 280-61883-12

Date Collected: 10/28/14 10:44

Matrix: Solid

Date Received: 10/29/14 09:40

Percent Solids: 92.0

Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.9		0.11		mg/Kg	☼	11/03/14 08:15	11/03/14 19:42	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.0		0.10		%	—		10/31/14 12:21	1