

# Client Sample Results

received 05/13/2015  
Project 9112  
Document 200433599

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

TestAmerica Job ID: 280-68049-1

**Client Sample ID: DOTS 14-32 NATIVE NORTH**

**Lab Sample ID: 280-68049-1**

**Date Collected: 04/15/15 13:12**

**Matrix: Solid**

**Date Received: 04/17/15 10:00**

**Percent Solids: 97.7**

## Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.8		0.093		mg/Kg	☆	04/20/15 08:45	04/21/15 02:00	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.3		0.10		%			04/21/15 19:13	1

## Client Sample Results

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

TestAmerica Job ID: 280-68049-1

**Client Sample ID: DOTS 14-32 NATIVE EAST**

**Lab Sample ID: 280-68049-2**

**Date Collected: 04/15/15 13:17**

**Matrix: Solid**

**Date Received: 04/17/15 10:00**

**Percent Solids: 95.5**

### Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.3		0.10		mg/Kg	☼	04/20/15 08:45	04/21/15 02:18	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.5		0.10		%	—		04/21/15 19:13	1

# Client Sample Results

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

TestAmerica Job ID: 280-68049-1

**Client Sample ID: DOTS 14-32 NATIVE SOUTH**

**Lab Sample ID: 280-68049-3**

Date Collected: 04/15/15 13:22

Matrix: Solid

Date Received: 04/17/15 10:00

Percent Solids: 96.5

## Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.4		0.10		mg/Kg	☆	04/20/15 08:45	04/21/15 02:22	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.5		0.10		%			04/21/15 19:13	1

# Client Sample Results

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

TestAmerica Job ID: 280-68049-1

**Client Sample ID: DOTS 14-32 NATIVE WEST**

**Lab Sample ID: 280-68049-4**

Date Collected: 04/15/15 13:27

Matrix: Solid

Date Received: 04/17/15 10:00

Percent Solids: 75.8

## Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.5		0.10		mg/Kg	☼	04/20/15 08:45	04/21/15 02:26	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		0.10		%			04/21/15 19:13	1

# Client Sample Results

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

TestAmerica Job ID: 280-68049-1

**Client Sample ID: DOTS 14-32 TOP OF PIT**

**Lab Sample ID: 280-68049-5**

**Date Collected: 04/15/15 13:40**

**Matrix: Solid**

**Date Received: 04/17/15 10:00**

## Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	3.3		1.2		No Unit		04/19/15 14:49	04/22/15 10:30	10

## Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.6		0.11		mg/Kg	☼	04/20/15 08:45	04/21/15 02:37	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.5		0.10		%			04/21/15 19:13	1

## General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	9.22		0.100		SU			04/25/15 15:16	1
Specific Conductance	73	B	2.0		umhos/cm			04/27/15 20:40	1

# Client Sample Results

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

TestAmerica Job ID: 280-68049-1

**Client Sample ID: DOTS 14-32 BOTTOM OF PIT**

**Lab Sample ID: 280-68049-6**

**Date Collected: 04/15/15 13:45**

**Matrix: Solid**

**Date Received: 04/17/15 10:00**

**Percent Solids: 87.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.3		ug/Kg	☼	04/21/15 16:00	04/22/15 03:31	1
Ethylbenzene	ND		5.3		ug/Kg	☼	04/21/15 16:00	04/22/15 03:31	1
Toluene	ND		5.3		ug/Kg	☼	04/21/15 16:00	04/22/15 03:31	1
Xylenes, Total	ND		5.3		ug/Kg	☼	04/21/15 16:00	04/22/15 03:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		58 - 140	04/21/15 16:00	04/22/15 03:31	1
Toluene-d8 (Surr)	104		80 - 126	04/21/15 16:00	04/22/15 03:31	1
4-Bromofluorobenzene (Surr)	97		76 - 127	04/21/15 16:00	04/22/15 03:31	1
Dibromofluoromethane (Surr)	114		75 - 121	04/21/15 16:00	04/22/15 03:31	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		1.3		mg/Kg	☼	04/23/15 11:52	04/24/15 00:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		77 - 123	04/23/15 11:52	04/24/15 00:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	35		4.4		mg/Kg	☼	04/22/15 20:50	04/24/15 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	60		49 - 115	04/22/15 20:50	04/24/15 14:04	1

## Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	6.9		1.2		No Unit	—	04/19/15 14:49	04/22/15 10:32	10

## Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	130		1.1		mg/Kg	☼	04/20/15 08:45	04/23/15 17:42	1
Boron	ND	F2 F1	11		mg/Kg	☼	04/20/15 08:45	04/22/15 11:06	1
Cadmium	ND	F2	0.53		mg/Kg	☼	04/20/15 08:45	04/22/15 11:06	1
Calcium	6800		53		mg/Kg	☼	04/20/15 08:45	04/22/15 11:06	1
Magnesium	3900		21		mg/Kg	☼	04/20/15 08:45	04/23/15 17:42	1
Molybdenum	ND	F2 F1	2.1		mg/Kg	☼	04/20/15 08:45	04/22/15 11:06	1
Silver	ND	F2 F1	1.1		mg/Kg	☼	04/20/15 08:45	04/22/15 11:06	1
Sodium	ND	F2 F1	530		mg/Kg	☼	04/20/15 08:45	04/22/15 11:06	1

## Method: 6020 - Total Metals by ICP-MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0		0.11		mg/Kg	☼	04/20/15 08:45	04/21/15 02:40	1
Chromium	27		0.22		mg/Kg	☼	04/20/15 08:45	04/21/15 02:40	1
Copper	19		0.27		mg/Kg	☼	04/20/15 08:45	04/21/15 02:40	1
Lead	6.8		0.11		mg/Kg	☼	04/20/15 08:45	04/21/15 02:40	1
Nickel	18		0.16		mg/Kg	☼	04/20/15 08:45	04/21/15 02:40	1
Selenium	0.27		0.22		mg/Kg	☼	04/20/15 08:45	04/21/15 15:31	1
Zinc	52		1.1		mg/Kg	☼	04/20/15 08:45	04/21/15 02:40	1

TestAmerica Denver

# Client Sample Results

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

TestAmerica Job ID: 280-68049-1

**Client Sample ID: DOTS 14-32 BOTTOM OF PIT**

**Lab Sample ID: 280-68049-6**

**Date Collected: 04/15/15 13:45**

**Matrix: Solid**

**Date Received: 04/17/15 10:00**

**Percent Solids: 87.5**

## Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		22		ug/Kg	☼	04/20/15 11:00	04/20/15 19:09	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.46		mg/Kg	☼	04/27/15 16:43	04/29/15 10:59	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	27		2.0		mg/Kg	—		04/30/15 07:31	1
Percent Moisture	12		0.10		%			04/21/15 19:13	1

## General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.74		0.100		SU	—		04/21/15 22:09	1
Specific Conductance	180	B	2.0		umhos/cm			04/27/15 20:40	1