

## Client Sample Results

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

Test

RECEIVED 10/16/2014  
REM 8680  
FACILITY 119880  
DOC 2142126

Client Sample ID: BLUE HERON 11-17 OFFSITE PIT NATIVE  
NORTH

Lab Sample ID: 280-55576-20

Date Collected: 05/14/14 12:55

Matrix: Solid

Date Received: 05/16/14 10:05

Percent Solids: 89.2

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.6		0.097		mg/Kg	☼	05/20/14 08:10	05/20/14 15:12	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11		0.10		%			05/20/14 13:47	1

# Client Sample Results

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

TestAmerica Job ID: 280-55576-1

**Client Sample ID: BLUE HERON 11-17 OFFSITE PIT NATIVE EAST**

**Lab Sample ID: 280-55576-21**

Date Collected: 05/14/14 12:59

Matrix: Solid

Date Received: 05/16/14 10:05

Percent Solids: 90.0

## Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.5		0.10		mg/Kg	☼	05/20/14 08:10	05/20/14 19:33	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10		0.10		%			05/20/14 13:47	1

TestAmerica Denver

# Client Sample Results

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

TestAmerica Job ID: 280-55576-1

**Client Sample ID: BLUE HERON 11-17 OFFSITE PIT NATIVE SOUTH**

**Lab Sample ID: 280-55576-22**

Date Collected: 05/14/14 13:05

Matrix: Solid

Date Received: 05/16/14 10:05

Percent Solids: 89.9

## Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.6		0.10		mg/Kg	☼	05/20/14 08:10	05/20/14 19:38	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10		0.10		%			05/20/14 13:47	1

# Client Sample Results

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

TestAmerica Job ID: 280-55576-1

**Client Sample ID: BLUE HERON 11-17 OFFSITE PIT TOP OF PIT**

**Lab Sample ID: 280-55576-23**

Date Collected: 05/14/14 13:15

Matrix: Solid

Date Received: 05/16/14 10:05

## 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		05/19/14 08:58	05/22/14 22:19	10

## Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		0.11		mg/Kg	☼	05/20/14 08:10	05/20/14 19:42	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		0.10		%			05/20/14 13:47	1

## General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.13		0.100		SU			05/22/14 17:24	1
Specific Conductance	11		2.0		umhos/cm			05/22/14 17:22	1

# Client Sample Results

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

TestAmerica Job ID: 280-55576-1

**Client Sample ID: BLUE HERON 11-17 OFFSITE PIT BOTTOM OF PIT**

**Lab Sample ID: 280-55576-24**

Date Collected: 05/14/14 13:20

Matrix: Solid

Date Received: 05/16/14 10:05

Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.1		ug/Kg	☼	05/19/14 14:00	05/19/14 23:29	1
Ethylbenzene	ND		6.1		ug/Kg	☼	05/19/14 14:00	05/19/14 23:29	1
Toluene	ND		6.1		ug/Kg	☼	05/19/14 14:00	05/19/14 23:29	1
Xylenes, Total	ND		6.1		ug/Kg	☼	05/19/14 14:00	05/19/14 23:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		58 - 140	05/19/14 14:00	05/19/14 23:29	1
Toluene-d8 (Surr)	98		80 - 126	05/19/14 14:00	05/19/14 23:29	1
4-Bromofluorobenzene (Surr)	93		76 - 127	05/19/14 14:00	05/19/14 23:29	1
Dibromofluoromethane (Surr)	98		75 - 121	05/19/14 14:00	05/19/14 23:29	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	☼	05/20/14 10:51	05/21/14 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		77 - 123	05/20/14 10:51	05/21/14 12:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	6.2		4.2		mg/Kg	☼	05/20/14 20:12	05/25/14 17:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	72		49 - 115	05/20/14 20:12	05/25/14 17:58	1

## 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		05/19/14 08:58	05/22/14 22:22	10

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	210		0.95		mg/Kg	☼	05/20/14 08:10	05/23/14 02:47	1
Boron	ND		9.5		mg/Kg	☼	05/20/14 08:10	05/23/14 02:47	1
Cadmium	ND		0.47		mg/Kg	☼	05/20/14 08:10	05/23/14 02:47	1
Calcium	4300		47		mg/Kg	☼	05/20/14 08:10	05/23/14 02:47	1
Magnesium	3600		19		mg/Kg	☼	05/20/14 08:10	05/23/14 02:47	1
Molybdenum	ND		1.9		mg/Kg	☼	05/20/14 08:10	05/23/14 02:47	1
Silver	ND		0.95		mg/Kg	☼	05/20/14 08:10	05/23/14 02:47	1
Sodium	ND		470		mg/Kg	☼	05/20/14 08:10	05/23/14 02:47	1

## Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		0.10		mg/Kg	☼	05/19/14 13:00	05/19/14 19:48	1
Chromium	25		0.20		mg/Kg	☼	05/19/14 13:00	05/19/14 19:48	1
Copper	40		0.25		mg/Kg	☼	05/19/14 13:00	05/19/14 19:48	1
Lead	17		0.10		mg/Kg	☼	05/19/14 13:00	05/19/14 19:48	1
Nickel	25		0.15		mg/Kg	☼	05/19/14 13:00	05/19/14 19:48	1
Selenium	2.0		0.20		mg/Kg	☼	05/19/14 13:00	05/19/14 19:48	1
Zinc	98		1.0		mg/Kg	☼	05/19/14 13:00	05/19/14 19:48	1

TestAmerica Denver

# Client Sample Results

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

TestAmerica Job ID: 280-55576-1

**Client Sample ID: BLUE HERON 11-17 OFFSITE PIT BOTTOM OF PIT**

**Lab Sample ID: 280-55576-24**

Date Collected: 05/14/14 13:20

Matrix: Solid

Date Received: 05/16/14 10:05

Percent Solids: 88.8

## Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	48		19		ug/Kg	☼	05/20/14 14:10	05/20/14 18:25	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.45		mg/Kg	☼	06/03/14 08:23	06/04/14 15:53	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	25		2.0		mg/Kg	—		06/05/14 07:24	1
Percent Moisture	11		0.10		%			05/19/14 13:01	1

## General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.36		0.100		SU	—		05/22/14 17:24	1
Specific Conductance	28		2.0		umhos/cm			05/22/14 17:22	1

# Client Sample Results

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

TestAmerica Job ID: 280-55576-1

Client Sample ID: BLUE HERON 11-17 OFFSITE PIT NATIVE

Lab Sample ID: 280-55576-25

WEST

Date Collected: 05/14/14 13:10

Matrix: Solid

Date Received: 05/16/14 10:05

Percent Solids: 90.1

## Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.5		0.10		mg/Kg	☼	05/20/14 08:10	05/20/14 19:46	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.9		0.10		%			05/20/14 13:47	1