

Client Sample Results

Sources USA, Inc.

TestAmerica Job ID: 280-44786-1

Client Sample ID: Worm 33-36 Bottom of Pit      Lab Sample ID: 280-44786-7  
Date Collected: 07/24/13 12:26      Matrix: Soil  
Date Received: 07/25/13 10:00      Percent Solids: 77.7

Method: 8260B - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.7		ug/Kg	☼	07/25/13 15:00	07/26/13 02:51	1
Ethylbenzene	ND		5.7		ug/Kg	☼	07/25/13 15:00	07/26/13 02:51	1
Toluene	ND		5.7		ug/Kg	☼	07/25/13 15:00	07/26/13 02:51	1
Xylenes, Total	ND		5.7		ug/Kg	☼	07/25/13 15:00	07/26/13 02:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		58 - 140				07/25/13 15:00	07/26/13 02:51	1
Toluene-d8 (Surr)	107		80 - 126				07/25/13 15:00	07/26/13 02:51	1
4-Bromofluorobenzene (Surr)	131	X	76 - 127				07/25/13 15:00	07/26/13 02:51	1
Dibromofluoromethane (Surr)	98		75 - 121				07/25/13 15:00	07/26/13 02:51	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		1.5		mg/Kg	☼	07/26/13 11:35	07/27/13 08:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	81		77 - 123				07/26/13 11:35	07/27/13 08:56	1

Method: 8015B - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	230		5.0		mg/Kg	☼	07/30/13 18:15	08/01/13 20:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	56		49 - 115				07/30/13 18:15	08/01/13 20:03	1

Method: 20B - Sodium Adsorption Ratio - Soluble									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	9.0		1.2		No Unit		07/30/13 12:00	07/31/13 16:26	10

Method: 6010B - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	260		1.2		mg/Kg	☼	07/30/13 07:30	07/30/13 14:40	1
Boron	ND		12		mg/Kg	☼	07/30/13 07:30	07/30/13 14:40	1
Cadmium	ND		0.61		mg/Kg	☼	07/30/13 07:30	07/30/13 14:40	1
Calcium	2200		61		mg/Kg	☼	07/30/13 07:30	07/30/13 14:40	1
Magnesium	2100		25		mg/Kg	☼	07/30/13 07:30	07/30/13 14:40	1
Molybdenum	ND		2.5		mg/Kg	☼	07/30/13 07:30	07/30/13 14:40	1
Silver	ND		1.2		mg/Kg	☼	07/30/13 07:30	07/30/13 14:40	1
Sodium	1700		610		mg/Kg	☼	07/30/13 07:30	07/30/13 14:40	1

Method: 6020 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.3		0.11		mg/Kg	☼	07/29/13 13:00	07/30/13 01:14	1
Chromium	26		0.23		mg/Kg	☼	07/29/13 13:00	07/30/13 01:14	1
Copper	43		0.28		mg/Kg	☼	07/29/13 13:00	07/30/13 01:14	1
Lead	17		0.11		mg/Kg	☼	07/29/13 13:00	07/30/13 01:14	1
Nickel	20		0.17		mg/Kg	☼	07/29/13 13:00	07/30/13 01:14	1
Selenium	2.0		0.23		mg/Kg	☼	07/29/13 13:00	07/30/13 01:14	1
Zinc	96		1.1		mg/Kg	☼	07/29/13 13:00	07/30/13 01:14	1

TestAmerica Denver

# Client Sample Results

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

TestAmerica Job ID: 280-44786-1

**Client Sample ID: Worm 33-36 Bottom of Pit**

**Lab Sample ID: 280-44786-7**

Date Collected: 07/24/13 12:26

Matrix: Soil

Date Received: 07/25/13 10:00

Percent Solids: 77.7

## Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	69		21		ug/Kg	☼	07/30/13 13:10	07/30/13 19:49	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	1.3		0.50		mg/Kg	☼	08/02/13 12:41	08/06/13 11:21	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	25		2.0		mg/Kg	—		08/07/13 07:30	1
Percent Moisture	22		0.10		%			07/26/13 15:14	1

## General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.70		0.100		SU	—		08/03/13 17:26	1
Specific Conductance	120		20		umhos/cm			08/01/13 13:44	1

# Client Sample Results

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

TestAmerica Job ID: 280-44786-1

**Client Sample ID: Worm 33-36 Top of Pit**

**Lab Sample ID: 280-44786-8**

Date Collected: 07/24/13 12:24

Matrix: Soil

Date Received: 07/25/13 10:00

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	7.2		1.2		No Unit		07/30/13 12:00	07/31/13 16:28	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		0.11		mg/Kg	☼	07/29/13 13:00	07/30/13 01:17	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		0.10		%			07/30/13 11:33	1

## General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.68		0.100		SU			08/03/13 17:26	1
Specific Conductance	110		20		umhos/cm			08/01/13 13:44	1

## Client Sample Results

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

TestAmerica Job ID: 280-44786-1

**Client Sample ID: Worm 33-36 Native South**

**Lab Sample ID: 280-44786-9**

Date Collected: 07/24/13 12:35

Matrix: Soil

Date Received: 07/25/13 10:00

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.6		0.11		mg/Kg	☼	07/29/13 13:00	07/30/13 01:20	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		0.10		%			07/26/13 15:14	1

# Client Sample Results

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

TestAmerica Job ID: 280-44786-1

**Client Sample ID: Worm 33-36 Native West**

**Lab Sample ID: 280-44786-10**

Date Collected: 07/24/13 12:37

Matrix: Soil

Date Received: 07/25/13 10:00

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.3		0.11		mg/Kg	☼	07/29/13 13:00	07/30/13 01:24	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12		0.10		%			07/26/13 15:14	1

# Client Sample Results

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

TestAmerica Job ID: 280-44786-1

**Client Sample ID: Worm 33-36 Native North**

**Lab Sample ID: 280-44786-11**

Date Collected: 07/24/13 12:39

Matrix: Soil

Date Received: 07/25/13 10:00

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.4		0.11		mg/Kg	☼	07/29/13 13:00	07/30/13 01:27	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		0.10		%			07/26/13 15:14	1

# Client Sample Results

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

TestAmerica Job ID: 280-44786-1

**Client Sample ID: Worm 33-36 Native East**

**Lab Sample ID: 280-44786-12**

Date Collected: 07/24/13 12:41

Matrix: Soil

Date Received: 07/25/13 10:00

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.2		0.098		mg/Kg	☼	07/29/13 13:00	07/30/13 01:30	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		0.10		%			07/26/13 15:14	1