

received 04/21/2014  
 Project 8377  
 Remediation 200403075  
 API 071-08672

# Client Sample Results

Resources USA, Inc.

TestAmerica Job ID: 280-45644-1

Project Site: Soil Testing Suite

**Client Sample ID: DRACO 31-21 NATIVE NORTH**

**Lab Sample ID: 280-45644-12**

Date Collected: 08/16/13 14:04

Matrix: Solid

Date Received: 08/17/13 09:30

Percent Solids: 96.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.7		0.099		mg/Kg	☼	08/20/13 13:00	08/21/13 03:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.3		0.10		%			08/21/13 09:57	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

# Client Sample Results

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

TestAmerica Job ID: 280-45644-1

**Client Sample ID: DRACO 31-21 NATIVE EAST**

**Lab Sample ID: 280-45644-13**

Date Collected: 08/16/13 14:12

Matrix: Solid

Date Received: 08/17/13 09:30

Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.1		0.11		mg/Kg	☼	08/20/13 13:00	08/21/13 03:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		0.10		%			08/21/13 09:57	1



# Client Sample Results

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

TestAmerica Job ID: 280-45644-1

**Client Sample ID: DRACO 31-21 NATIVE SOUTH**

**Lab Sample ID: 280-45644-14**

Date Collected: 08/16/13 14:16

Matrix: Solid

Date Received: 08/17/13 09:30

Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.7		0.12		mg/Kg	☆	08/20/13 13:00	08/21/13 03:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22		0.10		%			08/21/13 09:57	1



# Client Sample Results

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

TestAmerica Job ID: 280-45644-1

**Client Sample ID: DRACO 31-21 NATIVE WEST**

**Lab Sample ID: 280-45644-15**

Date Collected: 08/16/13 14:20

Matrix: Solid

Date Received: 08/17/13 09:30

Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0		0.094		mg/Kg	☼	08/20/13 13:00	08/21/13 03:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10		0.10		%			08/21/13 09:57	1



# Client Sample Results

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

TestAmerica Job ID: 280-45644-1

**Client Sample ID: DRACO 31-21 TOP OF PIT**

**Lab Sample ID: 280-45644-16**

Date Collected: 08/16/13 14:25

Matrix: Solid

Date Received: 08/17/13 09:30

**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		08/21/13 16:00	08/22/13 09:53	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.1		0.11		mg/Kg	☼	08/20/13 13:00	08/21/13 03:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11		0.10		%			08/21/13 09:57	1

**General Chemistry - Soluble**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	9.20		0.100		SU			08/24/13 12:11	1
Specific Conductance	680		20		umhos/cm			08/23/13 14:20	1



# Client Sample Results

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

TestAmerica Job ID: 280-45644-1

**Client Sample ID: DRACO 31-21 BOTTOM OF PIT**

**Lab Sample ID: 280-45644-17**

Date Collected: 08/16/13 14:28

Matrix: Solid

Date Received: 08/17/13 09:30

Percent Solids: 70.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.1		ug/Kg	☼	08/19/13 14:00	08/20/13 01:44	1
Ethylbenzene	ND		6.1		ug/Kg	☼	08/19/13 14:00	08/20/13 01:44	1
Toluene	ND		6.1		ug/Kg	☼	08/19/13 14:00	08/20/13 01:44	1
Xylenes, Total	ND		6.1		ug/Kg	☼	08/19/13 14:00	08/20/13 01:44	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	97		58 - 140				08/19/13 14:00	08/20/13 01:44	1
Toluene-d8 (Surr)	113		80 - 126				08/19/13 14:00	08/20/13 01:44	1
4-Bromofluorobenzene (Surr)	114		76 - 127				08/19/13 14:00	08/20/13 01:44	1
Dibromofluoromethane (Surr)	105		75 - 121				08/19/13 14:00	08/20/13 01:44	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		1.7		mg/Kg	☼	08/19/13 11:33	08/19/13 20:36	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	73	X	77 - 123				08/19/13 11:33	08/19/13 20:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	29		5.2		mg/Kg	☼	08/20/13 16:45	08/23/13 00:28	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	70		49 - 115				08/20/13 16:45	08/23/13 00:28	1

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	14		1.2		No Unit		08/21/13 16:00	08/22/13 09:53	10

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	100		1.4		mg/Kg	☼	08/21/13 07:30	08/23/13 02:46	1
Boron	ND		14		mg/Kg	☼	08/21/13 07:30	08/23/13 02:46	1
Cadmium	ND		0.68		mg/Kg	☼	08/21/13 07:30	08/23/13 02:46	1
Calcium	2400		68		mg/Kg	☼	08/21/13 07:30	08/23/13 02:46	1
Magnesium	740		27		mg/Kg	☼	08/21/13 07:30	08/23/13 02:46	1
Molybdenum	ND		2.7		mg/Kg	☼	08/21/13 07:30	08/23/13 02:46	1
Silver	ND		1.4		mg/Kg	☼	08/21/13 07:30	08/23/13 02:46	1
Sodium	1800		680		mg/Kg	☼	08/21/13 07:30	08/23/13 02:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.1		0.12		mg/Kg	☼	08/20/13 13:00	08/21/13 02:23	1
Chromium	16		0.24		mg/Kg	☼	08/20/13 13:00	08/21/13 02:23	1
Copper	36		0.31		mg/Kg	☼	08/20/13 13:00	08/21/13 02:23	1
Lead	14		0.12		mg/Kg	☼	08/20/13 13:00	08/21/13 02:23	1
Nickel	17		0.18		mg/Kg	☼	08/20/13 13:00	08/21/13 02:23	1
Selenium	0.56		0.24		mg/Kg	☼	08/20/13 13:00	08/21/13 02:23	1
Zinc	96		1.2		mg/Kg	☼	08/20/13 13:00	08/21/13 02:23	1

TestAmerica Denver

# Client Sample Results

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

TestAmerica Job ID: 280-45644-1

**Client Sample ID: DRACO 31-21 BOTTOM OF PIT**

**Lab Sample ID: 280-45644-17**

Date Collected: 08/16/13 14:28

Matrix: Solid

Date Received: 08/17/13 09:30

Percent Solids: 70.4

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	59		21		ug/Kg	☼	08/20/13 14:30	08/20/13 23:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	30		0.10		%			08/20/13 09:33	1

**General Chemistry - Soluble**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	9.68		0.100		SU			08/24/13 12:11	1
Specific Conductance	1800		20		umhos/cm			08/23/13 14:20	1

