

received 06/30/2014
Project 8500
Remediation 200408218

Client Sample Results

Client: Pioneer Natural Resources USA, Inc. TestAmerica Job ID: 280-56485-1
Project/Site: Pioneer Natural Resources

Client Sample ID: HATCH 24-7 NATIVE NORTH Lab Sample ID: 280-56485-1
Date Collected: 06/09/14 13:38 Matrix: Solid
Date Received: 06/11/14 10:00 Percent Solids: 71.4

Method: 6020 - Metals (ICP/MS)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	2.7		0.12		mg/Kg	☆	06/12/14 12:45	06/13/14 21:43	1	

General Chemistry										
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Percent Moisture	29		0.10		%			06/17/14 14:10	1	

Client Sample Results

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

TestAmerica Job ID: 280-56485-1

Client Sample ID: HATCH 24-7 NATIVE EAST

Lab Sample ID: 280-56485-2

Date Collected: 06/09/14 13:42

Matrix: Solid

Date Received: 06/11/14 10:00

Percent Solids: 73.5

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.4		0.12		mg/Kg	☆	06/12/14 12:45	06/13/14 21:46	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27		0.10		%			06/17/14 14:10	1

Client Sample Results

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

TestAmerica Job ID: 280-56485-1

Client Sample ID: HATCH 24-7 NATIVE SOUTH

Lab Sample ID: 280-56485-3

Date Collected: 06/09/14 13:45

Matrix: Solid

Date Received: 06/11/14 10:00

Percent Solids: 65.3

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		0.15		mg/Kg	☆	06/12/14 12:45	06/13/14 21:49	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	35		0.10		%			06/12/14 18:02	1

Client Sample Results

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

TestAmerica Job ID: 280-56485-1

Client Sample ID: HATCH 24-7 NATIVE WEST

Lab Sample ID: 280-56485-4

Date Collected: 06/09/14 13:50

Matrix: Solid

Date Received: 06/11/14 10:00

Percent Solids: 67.3

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.0		0.14		mg/Kg	☆	06/12/14 12:45	06/13/14 21:52	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	33		0.10		%			06/12/14 18:02	1

Client Sample Results

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

TestAmerica Job ID: 280-56485-1

Client Sample ID: HATCH 24-7 TOP OF PIT

Lab Sample ID: 280-56485-5

Date Collected: 06/09/14 13:55

Matrix: Solid

Date Received: 06/11/14 10:00

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	1.2		1.2		No Unit		06/11/14 22:07	06/18/14 12:48	10

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.3		0.11		mg/Kg	☼	06/12/14 12:45	06/13/14 21:55	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15		0.10		%			06/12/14 18:02	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	8.42		0.100		SU			06/13/14 21:52	1
Specific Conductance	15		2.0		umhos/cm			06/20/14 17:46	1

Client Sample Results

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

TestAmerica Job ID: 280-56485-1

Client Sample ID: HATCH 24-7 BOTTOM OF PIT

Lab Sample ID: 280-56485-6

Date Collected: 06/09/14 14:00

Matrix: Solid

Date Received: 06/11/14 10:00

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.6		ug/Kg	☼	06/17/14 15:30	06/17/14 19:25	1
Ethylbenzene	ND		6.6		ug/Kg	☼	06/17/14 15:30	06/17/14 19:25	1
Toluene	ND		6.6		ug/Kg	☼	06/17/14 15:30	06/17/14 19:25	1
Xylenes, Total	ND		6.6		ug/Kg	☼	06/17/14 15:30	06/17/14 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		58 - 140	06/17/14 15:30	06/17/14 19:25	1
Toluene-d8 (Surr)	135	X	80 - 126	06/17/14 15:30	06/17/14 19:25	1
4-Bromofluorobenzene (Surr)	138	X	76 - 127	06/17/14 15:30	06/17/14 19:25	1
Dibromofluoromethane (Surr)	125	X	75 - 121	06/17/14 15:30	06/17/14 19:25	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	☼	06/18/14 14:20	06/18/14 23:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	86		77 - 123	06/18/14 14:20	06/18/14 23:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11		4.6		mg/Kg	☼	06/13/14 17:27	06/16/14 23:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	76		49 - 115	06/13/14 17:27	06/16/14 23:29	1

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	—	06/11/14 22:07	06/18/14 12:50	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	240		1.1		mg/Kg	☼	06/13/14 12:30	06/16/14 17:11	1
Boron	ND		11		mg/Kg	☼	06/13/14 12:30	06/16/14 17:11	1
Cadmium	ND		0.57		mg/Kg	☼	06/13/14 12:30	06/16/14 17:11	1
Calcium	3700		57		mg/Kg	☼	06/13/14 12:30	06/16/14 17:11	1
Magnesium	3100		23		mg/Kg	☼	06/13/14 12:30	06/16/14 17:11	1
Molybdenum	ND		2.3		mg/Kg	☼	06/13/14 12:30	06/16/14 17:11	1
Silver	ND		1.1		mg/Kg	☼	06/13/14 12:30	06/16/14 17:11	1
Sodium	ND		570		mg/Kg	☼	06/13/14 12:30	06/16/14 17:11	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.6		0.11		mg/Kg	☼	06/12/14 12:45	06/13/14 21:58	1
Chromium	17		0.22		mg/Kg	☼	06/12/14 12:45	06/13/14 21:58	1
Copper	20		0.28		mg/Kg	☼	06/12/14 12:45	06/13/14 21:58	1
Lead	11		0.11		mg/Kg	☼	06/12/14 12:45	06/13/14 21:58	1
Nickel	15		0.17		mg/Kg	☼	06/12/14 12:45	06/13/14 21:58	1
Selenium	1.9		0.22		mg/Kg	☼	06/12/14 12:45	06/13/14 21:58	1
Zinc	49		1.1		mg/Kg	☼	06/12/14 12:45	06/13/14 21:58	1

TestAmerica Denver

Client Sample Results

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

TestAmerica Job ID: 280-56485-1

Client Sample ID: HATCH 24-7 BOTTOM OF PIT

Lab Sample ID: 280-56485-6

Date Collected: 06/09/14 14:00

Matrix: Solid

Date Received: 06/11/14 10:00

Percent Solids: 81.8

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		23		ug/Kg	☼	06/12/14 11:40	06/12/14 15:16	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18		0.10		%	—		06/12/14 18:02	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH adj. to 25 deg C	7.77		0.100		SU	—		06/13/14 21:52	1
Specific Conductance	12		2.0		umhos/cm	—		06/20/14 17:46	1