

received 07/14/2013  
NOAV 200130026

Pioneer Natural Resources USA, Inc

Client Sample ID: BACKYARD 34-34 PIT

GC Volatiles

Lot-Sample #....: D7D120270-001 Work Order #....: JTR421A1 Matrix.....: WATER  
Date Sampled....: 04/11/07 10:30 Date Received...: 04/12/07  
Prep Date.....: 04/17/07 Analysis Date...: 04/17/07  
Prep Batch #....: 7108415 Analysis Time...: 11:35  
Dilution Factor: 1  
Method.....: SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	1.6	0.50	ug/L
Ethylbenzene	ND	0.50	ug/L
Toluene	1.7	0.50	ug/L
Xylenes (total)	2.8 COL	0.50	ug/L

  

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	98	(85 - 115)

NOTE(S) :

COL More than 40% RPD between primary and confirmation column results. The lower of the two results is reported.

Pioneer Natural Resources USA, Inc.

Client Sample ID: BACKYARD 34-34 PIT

GC Semivolatiles

Lot-Sample #....: D7D120270-001 Work Order #....: JTR421A7 Matrix.....: WATER  
Date Sampled....: 04/11/07 10:30 Date Received...: 04/12/07  
Prep Date.....: 04/12/07 Analysis Date...: 04/17/07  
Prep Batch #....: 7102438 Analysis Time...: 00:34  
Dilution Factor: 1  
Method.....: SW846 8015B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Diesel Range Organics	18	0.25	mg/L

  

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	30 *	(48 - 117)

**NOTE(S) :**

\* Surrogate recovery is outside stated control limits.

**Pioneer Natural Resources USA, Inc.**

**Client Sample ID: BACKYARD 34-34 PIT**

**TOTAL Metals**

**Lot-Sample #...: D7D120270-001**

**Matrix.....: WATER**

**Date Sampled...: 04/11/07 10:30 Date Received...: 04/12/07**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>Prep Batch #...: 7106500</b>						
Arsenic	ND	0.050	mg/L	SW846 6010B	04/17-04/18/07	JTR421AL
		Dilution Factor: 1		Analysis Time...: 13:07		
Boron	0.21	0.050	mg/L	SW846 6010B	04/17-04/18/07	JTR421AN
		Dilution Factor: 1		Analysis Time...: 00:26		
Calcium	131	0.10	mg/L	SW846 6010B	04/17-04/18/07	JTR421AW
		Dilution Factor: 1		Analysis Time...: 00:26		
Chromium	0.24	0.010	mg/L	SW846 6010B	04/17-04/18/07	JTR421AP
		Dilution Factor: 1		Analysis Time...: 00:26		
Copper	0.40	0.010	mg/L	SW846 6010B	04/17-04/18/07	JTR421AQ
		Dilution Factor: 1		Analysis Time...: 00:26		
Iron	199	0.050	mg/L	SW846 6010B	04/17-04/18/07	JTR421AR
		Dilution Factor: 1		Analysis Time...: 00:26		
Potassium	42.4 L	5.0	mg/L	SW846 6010B	04/17-04/18/07	JTR421AT
		Dilution Factor: 1		Analysis Time...: 00:26		
Magnesium	39.5	0.10	mg/L	SW846 6010B	04/17-04/18/07	JTR421AU
		Dilution Factor: 1		Analysis Time...: 00:26		
Manganese	3.0	0.010	mg/L	SW846 6010B	04/17-04/18/07	JTR421AV
		Dilution Factor: 1		Analysis Time...: 00:26		
Sodium	524	2.0	mg/L	SW846 6010B	04/17-04/18/07	JTR421AX
		Dilution Factor: 1		Analysis Time...: 00:26		
Selenium	ND	0.015	mg/L	SW846 6010B	04/17-04/18/07	JTR421AM
		Dilution Factor: 1		Analysis Time...: 00:26		

**NOTE(S) :**

L Serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present.

**Pioneer Natural Resources USA, Inc.**

**Client Sample ID: BACKYARD 34-34 PIT**

**General Chemistry**

**Lot-Sample #....:** D7D120270-001  
**Date Sampled....:** 04/11/07 10:30

**Work Order #....:** JTR42  
**Date Received...:** 04/12/07

**Matrix.....:** WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	11.7	0.10	No Units	MCAWW 150.1	04/12/07	7102484
		Dilution Factor: 1		Analysis Time...: 13:52		
Bicarbonate, as CaCO <sub>3</sub> ND		5.0	mg/L	MCAWW 310.1	04/13/07	7105032
		Dilution Factor: 1		Analysis Time...: 20:00		
Bromide	0.91	0.20	mg/L	MCAWW 300.0A	04/17/07	7108566
		Dilution Factor: 1		Analysis Time...: 20:32		
Carbonate, as CaCO <sub>3</sub>	711	5.0	mg/L	MCAWW 310.1	04/13/07	7105035
		Dilution Factor: 1		Analysis Time...: 20:00		
Chloride	258 Q	5.0	mg/L	MCAWW 325.2	04/13/07	7103399
		Dilution Factor: 2		Analysis Time...: 14:00		
Hydroxide, as CaCO <sub>3</sub>	50.6	5.0	mg/L	MCAWW 310.1	04/13/07	7105036
		Dilution Factor: 1		Analysis Time...: 20:00		
HEM (Oil and Grease)	98.0 G	50.0	mg/L	CFR136A 1664A HEM	04/23/07	7113492
		Dilution Factor: 10		Analysis Time...: 09:50		
Resistivity	3.8	0.00020	ohm-m	MCAWW 120.1	04/13/07	7104070
		Dilution Factor: 1		Analysis Time...: 15:00		
Specific Gravity	1.00	0.00010	--	ASTM D1429	04/13/07	7103432
		Dilution Factor: 1		Analysis Time...: 16:30		
Sulfate	99.1 Q	25.0	mg/L	MCAWW 300.0A	04/17-04/18/07	7108601
		Dilution Factor: 5		Analysis Time...: 02:53		
Total Alkalinity	762	5.0	mg/L	MCAWW 310.1	04/13/07	7105030
		Dilution Factor: 1		Analysis Time...: 20:00		
Total Dissolved Solids	2350 G	20.0	mg/L	MCAWW 160.1	04/13/07	7103437
		Dilution Factor: 2		Analysis Time...: 16:50		
Total Sulfide	ND	0.050	mg/L	MCAWW 376.2	04/18/07	7108584
		Dilution Factor: 1		Analysis Time...: 15:00		

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Client Sample ID: BACKYARD 34-34 PIT

General Chemistry

Lot-Sample #...: D7D120270-001

Work Order #...: JTR42

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Suspended Solids	5590 Q	100	mg/L	MCAWW 160.2	04/16/07	7106536

Dilution Factor: 25

Analysis Time...: 13:10

NOTE(S):

RL Reporting Limit

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.