

# SEVERN TRENT LABORATORIES, INC.

## PRELIMINARY DATA SUMMARY

The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.

Lot #: D6H160213      Pioneer Natural Resources USA, Inc.      PAGE 2  
Raton Basin Wells      Date Reported: 8/29/06  
Project Number: 35000210

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
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### Client Sample ID: DALLAS 44-13

Sample #: 001      Date Sampled: 08/15/06 11:53      Date Received: 08/16/06      Matrix: WATER

Specific Gravity					Reviewed
Specific Gravity	1.00	0.000100	--	ASTM D1429	

### Client Sample ID: MUFFINS 14-18

Sample #: 002      Date Sampled: 08/15/06 12:16      Date Received: 08/16/06      Matrix: WATER

Trace Inductively Coupled Plasma (ICP) Metals					Reviewed
Arsenic	ND	0.050	mg/L	SW846 6010B	
Selenium	ND	0.015	mg/L	SW846 6010B	

Inductively Coupled Plasma (ICP) Metals					Reviewed
Boron	0.10	0.050	mg/L	SW846 6010B	
Calcium	3.2	0.10	mg/L	SW846 6010B	
Chromium	ND	0.010	mg/L	SW846 6010B	
Copper	ND	0.010	mg/L	SW846 6010B	
Iron	1.1	0.050	mg/L	SW846 6010B	
Potassium	ND	5.0	mg/L	SW846 6010B	
Magnesium	0.83	0.10	mg/L	SW846 6010B	
Manganese	0.019	0.010	mg/L	SW846 6010B	
Sodium	564	2.0	mg/L	SW846 6010B	

Volatiles by GC					Reviewed
Benzene	2.9			SW846 8021B	
Ethylbenzene	0.53	0.50	ug/L	SW846 8021B	
Toluene	7.2	0.50	ug/L	SW846 8021B	
Xylenes (total)	6.5	0.50	ug/L	SW846 8021B	

Inorganic Analysis					Reviewed
Carbonate Alkalinity	41.8	5.0	mg/L	MCAWW 310.1	
Bicarbonate Alkalinity	1070	5.0	mg/L	MCAWW 310.1	
Hydroxide Alkalinity	ND	5.0	mg/L	MCAWW 310.1	
Alkalinity	1110	5.0	mg/L	MCAWW 310.1	
Chloride (Colorimetric, Automated Ferricyanide)	41.7	2.5	mg/L	MCAWW 325.2	
Bromide	0.25	0.20	mg/L	MCAWW 300.0A	

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Lot #: D6H160213      Pioneer Natural Resources USA, Inc.      PAGE 3  
Raton Basin Wells      Date Reported: 8/29/06  
Project Number: 35000210  
REPORTING ANALYTICAL  
PARAMETER RESULT LIMIT UNITS METHOD

### Client Sample ID: MUFFINS 14-18

Sample #: 002      Date Sampled: 08/15/06 12:16      Date Received: 08/16/06      Matrix: WATER

Sulfate					Reviewed
Sulfate	ND	5.0	mg/L	MCAWW 300.0A	
pH (Electrometric)	8.3	0.10	No Units	MCAWW 150.1	
Sulfide (Colorimetric,MB)	ND	0.050	mg/L	MCAWW 376.2	
Filterable Residue (TDS)	1270	10.0	mg/L	MCAWW 160.1	
Non-Filterable Residue (TSS)	8.0	4.0	mg/L	MCAWW 160.2	
Resistivity	5.1	0.00020	ohm-m	MCAWW 120.1	
120.1					
Specific Gravity	1.00	0.000100	--	ASTM D1429	

### Client Sample ID: TRIP BLANK

Sample #: 003      Date Sampled: 08/15/06 12:16      Date Received: 08/16/06      Matrix: WATER

Volatiles by GC					Reviewed
Benzene	ND	0.50	ug/L	SW846 8021B	
Ethylbenzene	ND	0.50	ug/L	SW846 8021B	
Toluene	ND	0.50	ug/L	SW846 8021B	
Xylenes (total)	ND	0.50	ug/L	SW846 8021B	