



TETRA TECH

March 29, 2012

Mr. Glenn von Gonten
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87504

Re: Comprehensive Groundwater Sampling Report for the Celero Energy II, LP, Rock Queen Unit Tract 7 Tank Battery, Located in Unit Letter I, Section 22, Township 13 South, Range 31 East, Chaves County, New Mexico (NMOCD 1RP#1645).

Mr. Von Gonten:

This report details the results of the groundwater sampling events performed at the Celero Energy II, LP (Celero), Rock Queen Unit Tract 7 Tank Battery (Site) from November 2009 through December 2011. The Site is located approximately 22 miles north of Maljamar, New Mexico. The Site location is shown on Figures 1 and 2.

FACILITY BACKGROUND

Pit Closure

On October 8, 2007, Highlander (Tetra Tech) submitted an Investigation and Characterization work plan (ICP) for an open pit at the Site. The ICP was subsequently approved by the New Mexico Oil Conservation Division (NMOCD).

The Tract 7 Tank Battery pit was dewatered and the residual sludge, tank bottom materials, and liner were removed in October 2007. Removed fluids were placed into an existing SWD system or taken for disposal, while the sludge, tank bottom materials, and liner were disposed of at Gandy-Marley, Inc.'s landfill site in Lovington, New Mexico. Upon completion of the removal of the fluids, sludge, and liner, the underlying soils were visually inspected for signs of impact. Approximately 440 cubic yards of soil were excavated and transported to Gandy-Marley, Inc. for disposal. The pit was excavated to a point where the subsoil would support a soil boring rig.

Tetra Tech

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On October 12, 2009, a report entitled *Assessment and Closure Report for the Pit located at the Rock Queen Unit Track 7 Tank Battery* was submitted to the NMOCD. The report detailed the closure of the former pit at the facility.

Groundwater Investigation

Between November 2009 and December 2010, Celero installed four 2-inch monitor wells (MW-1 through MW-4) and one 5-inch recovery well (RW-1) to assess the groundwater quality at the Site. The lithology at the Site was relatively consistent with limestone encountered to approximately 15 feet below ground surface (bgs) and very fine grain sands extending to approximately 150 to 160 feet bgs. From approximately 150 to 160 feet to the terminus of the borings (approximately 155 to 180 feet) the soils consisted of gray to red clay. See Appendix A for Boring Logs.

During the investigation, groundwater was encountered at depths of approximately 149 to 155 feet bgs. Monitor Well MW-1 was drilled into the surrounding underlying clay to 170 feet bgs and installed with 60 feet of 0.02 inch slotted screen. The remaining monitor wells were drilled to depths of 175 to 180 feet bgs and installed with 40 feet of 0.02 inch slotted screen. Recovery well RW-1 was drilled to a depth of 155 feet and installed with 20 feet of 0.035 inch slotted screen. From the top of the screens to the surface of the boring, the wells were completed with blank schedule 40 PVC casing. See Appendix B for monitor well installation diagrams.

During the investigation and subsequent sampling, the only constituents of concern detected in the groundwater above New Mexico Water Quality Control Commission (NMWQCC) standards was chlorides, TDS, and SO₄. No Phase Separated Hydrocarbons (PSH) or dissolved phase separated hydrocarbons have been measured or detected in any of the onsite monitor wells above New Mexico Water Quality Control Commission (NMWQCC) standards. See Figure 3 detailing the monitor well locations.

Gauging and Monitor Well Sampling

On November 24, 2009, initial sampling began at the site. During 2010, additional monitor wells were installed and quarterly sampling initiated. During the sampling events, all monitor wells were gauged, purged and sampled with no PSH measured. Utilizing the water level elevation calculations, groundwater gradient maps were generated for the January, April, July and October 2011 sampling events. The hydraulic gradient indicates a westerly direction. Groundwater gradient maps for the sampling events are included as Figures 4 through 7. Gauging data is summarized in Table 1.

During the sampling events, each of the wells was purged utilizing either a submersible pump or by hand bailing and subsequently sampled for BTEX



utilizing method SW8021B, chlorides and sulfates utilizing method E 300.0, total dissolved solids (TDS) utilizing method SM2540C and periodically for general chemistry using methods SM2320B, SW6010B, SM4500-H+. The samples were properly preserved and submitted under proper chain-of-custody control to Trace Analysis Inc. of Lubbock, Texas. All water samples collected and analyzed were below the NMWQCC standard of 0.01 milligrams per liter (mg/L) of benzene. Chlorides for the sampling period ranged from <125 mg/L in up gradient monitor well MW-4 on January 19, 2011 to 47,500 mg/L in down gradient monitor well MW-3 on January 19, 2011. With the exception of MW-4 all additional monitor wells exceeded the NMWQCC standard of 250 mg/L chlorides. The general chemistry and BTEX analyses are shown in Tables 2 and 3, respectively. Chloride concentration maps for the sampling events are included as Figures 8 through 15. Copies of the laboratory analyses are enclosed in Appendix C.

During the purging activities, it was noted that all four monitor well and one recovery well did not pump dry.

CONCLUSIONS

1. On November 24, 2009, initial sampling began at the site. During 2010, additional monitor wells were installed and quarterly sampling initiated. During the sampling events, all monitor wells were gauged, purged, and sampled. The samples were preserved, delivered to Trace Analysis, Inc. of Midland, Texas, and analyzed for BTEX utilizing method 8021B, chlorides and sulfates utilizing method E 300.0, total dissolved solids (TDS) utilizing method SM2540C and periodically for general chemistry using methods SM2320B, SW6010B, SM4500-H+.
2. The hydraulic gradient indicates a westerly direction.
3. All wells tested below the NMWQCC standards of 0.01 mg/L for benzene.
4. Chloride concentrations exceed the NMWQCC standards of 250 mg/L in all monitor wells with the exception of up gradient MW-4. The chloride concentrations at the site range from <125 mg/L in up gradient MW-4 on January 19, 2011 to 47,500 mg/L in down gradient monitor well MW-3 on January 19, 2011.

RECOMMENDATIONS

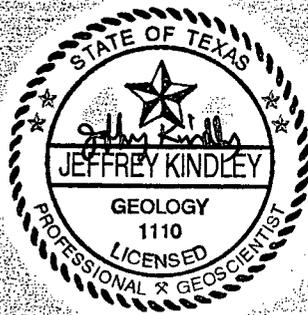
1. Quarterly groundwater monitoring and gauging will be continued throughout the year.



TETRA TECH

2. Additional monitor wells will be installed in order to further delineate the chloride plume at the site.
3. A remediation system consisting of either a low flow solar/electric pump or a windmill system will be installed in recovery well RW-1. The recovered fluids will be collected in an above ground tank and utilized for possible water flooding purposes in the surrounding oilfield.

If you have any question or comments concerning the assessment or the activities performed at the Site, please call me at (432) 682-4559.



Respectfully submitted,
Tetra Tech, Inc.

Jeffrey Kindley
Jeffrey Kindley, P.G.
Senior Environmental Geologist

cc: Bruce Woodard – Celero Energy II, LP

FIGURES

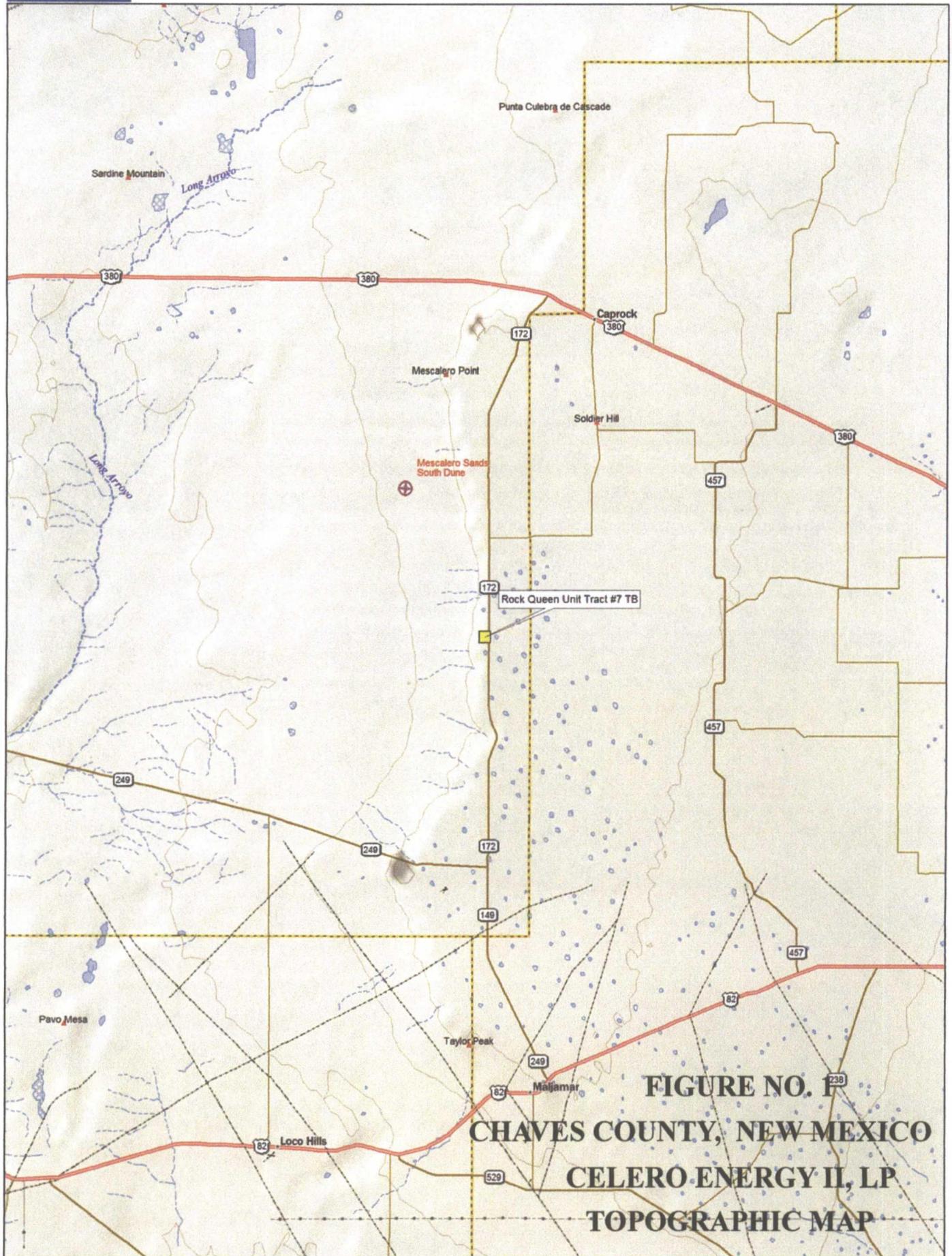
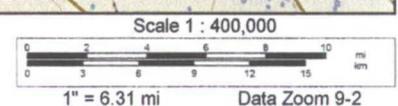
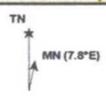


FIGURE NO. 1
CHAVES COUNTY, NEW MEXICO
CELERO ENERGY II, LP
TOPOGRAPHIC MAP

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www.delorme.com



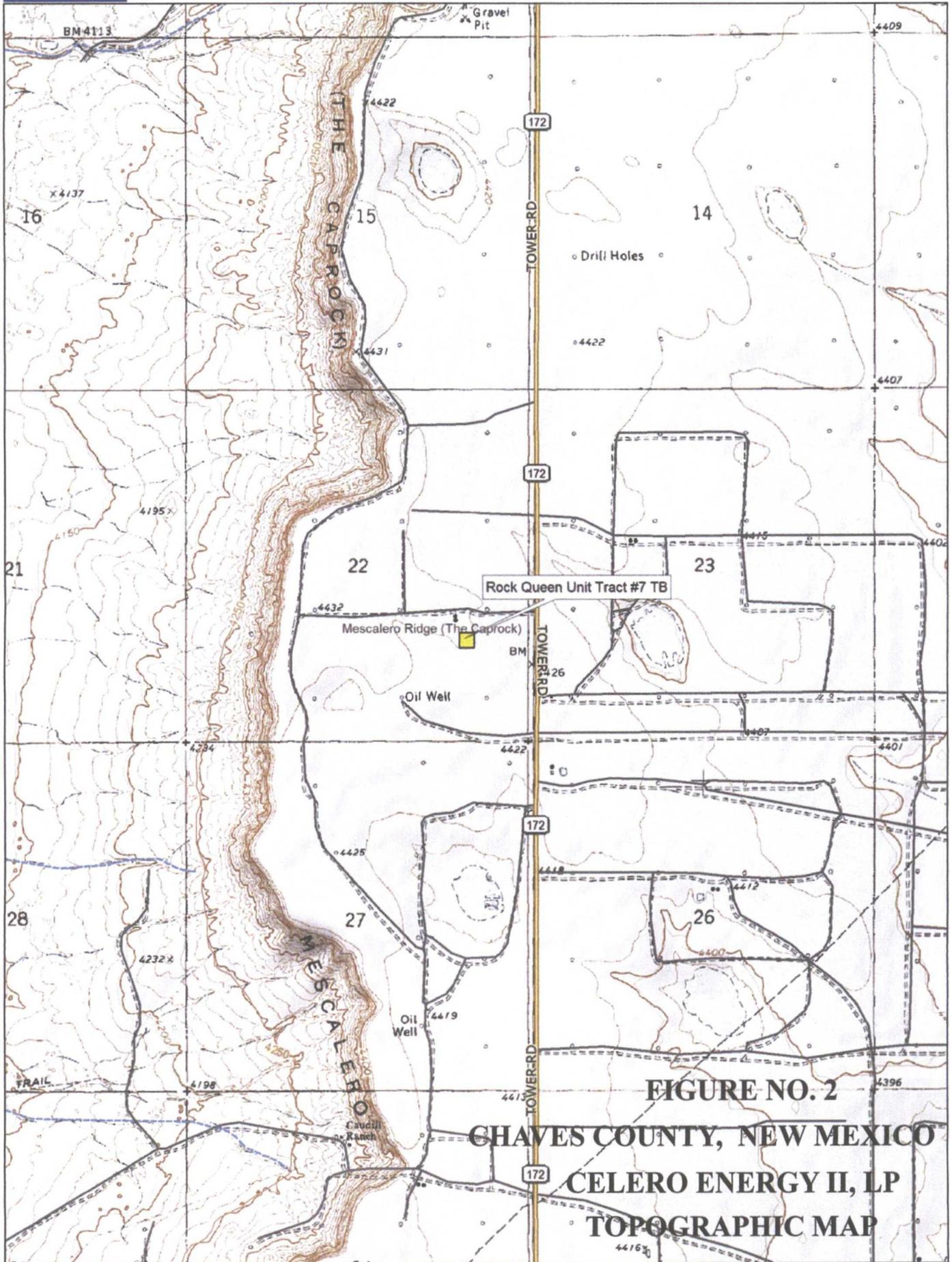
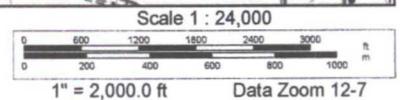


FIGURE NO. 2
CHAVES COUNTY, NEW MEXICO
CELERO ENERGY II, LP
TOPOGRAPHIC MAP





MW-2
+

ROCK QUEEN
TRACT #7



MW-1
+

RW-1
+

MW-3
+

MW-4
+

SCALE: 200'
0 200'

DATE:
9/4/07
DWN. BY:
JJ
FILE:
C:\CELERO\3130\
RQ TRACT #7

FIGURE NO. 3

CHAVES COUNTY, NEW MEXICO

CELERO ENERGY
ROCK QUEEN TRACT #7
SITE MAP

TETRA TECH, INC.
MIDLAND, TEXAS

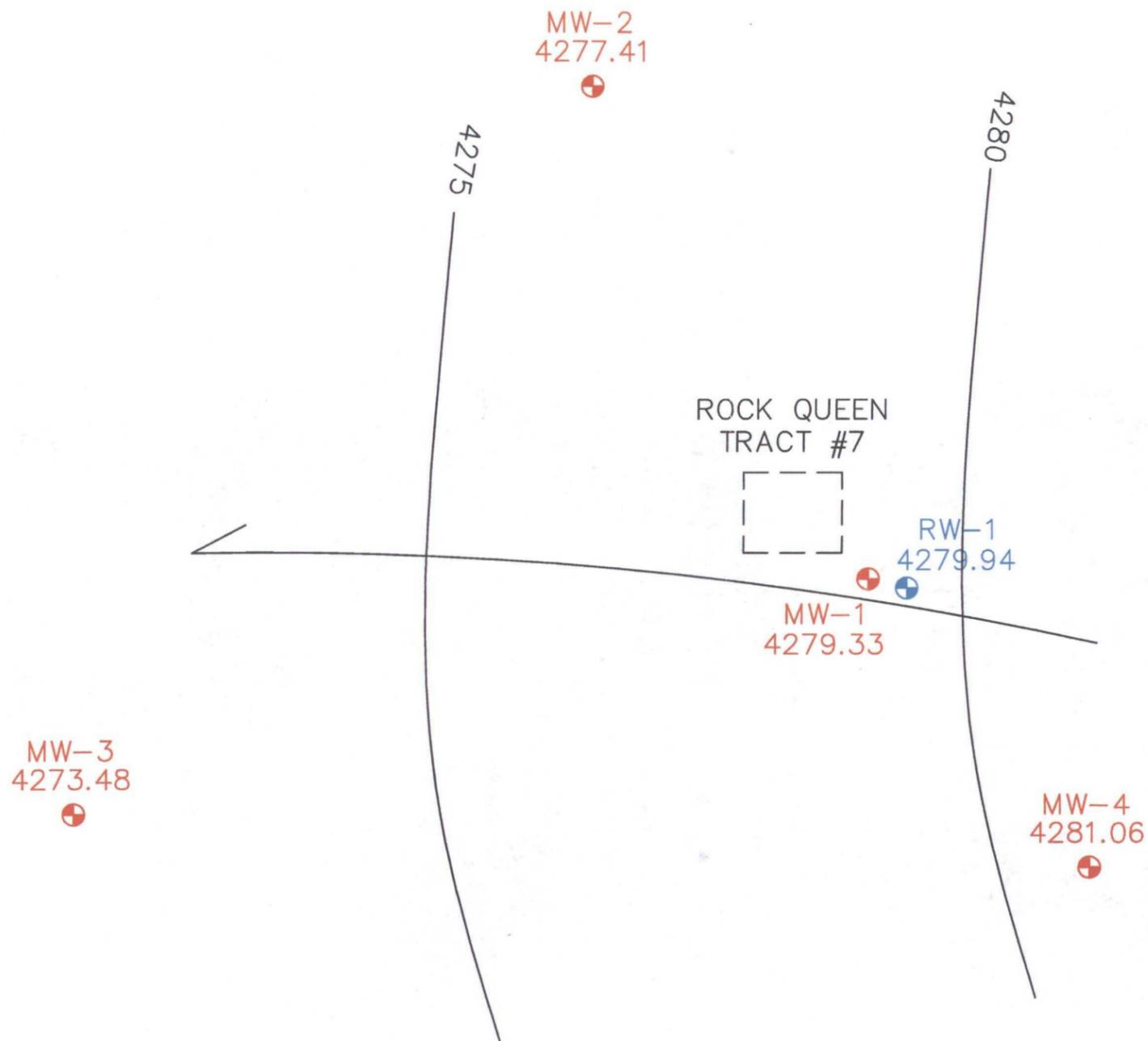


FIGURE NO. 4

CHAVES COUNTY, NEW MEXICO

CELERO ENERGY
ROCK QUEEN TRACT #7
GROUNDWATER GRADIENT MAP
GAUGED ON 1/17/11

TETRA TECH, INC.
MIDLAND, TEXAS

SCALE: 150'

C.I. = 5'



DATE:
1/17/11
DWN. BY:
IM
FILE:
C:\CELERO\3130\
GROUNDWATER MAP

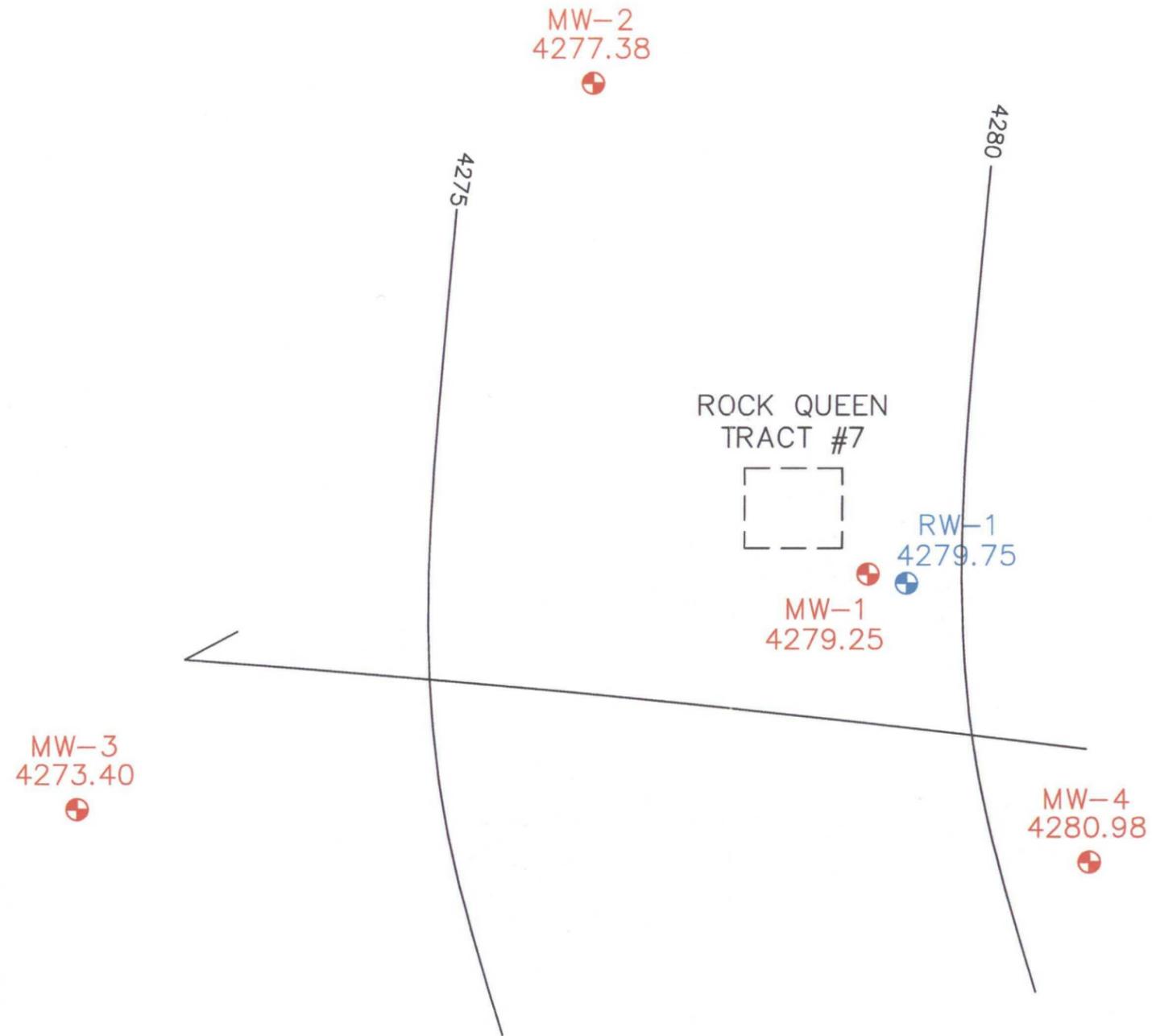


FIGURE NO. 5

CHAVES COUNTY, NEW MEXICO

CELERO ENERGY
ROCK QUEEN TRACT #7
GROUNDWATER GRADIENT MAP
GAUGED ON 4/11/2011

TETRA TECH, INC.
MIDLAND, TEXAS

DATE:
4/11/2011
DWN. BY:
IM
FILE:
C:\CELERO\3130\
GROUNDWATER MAP

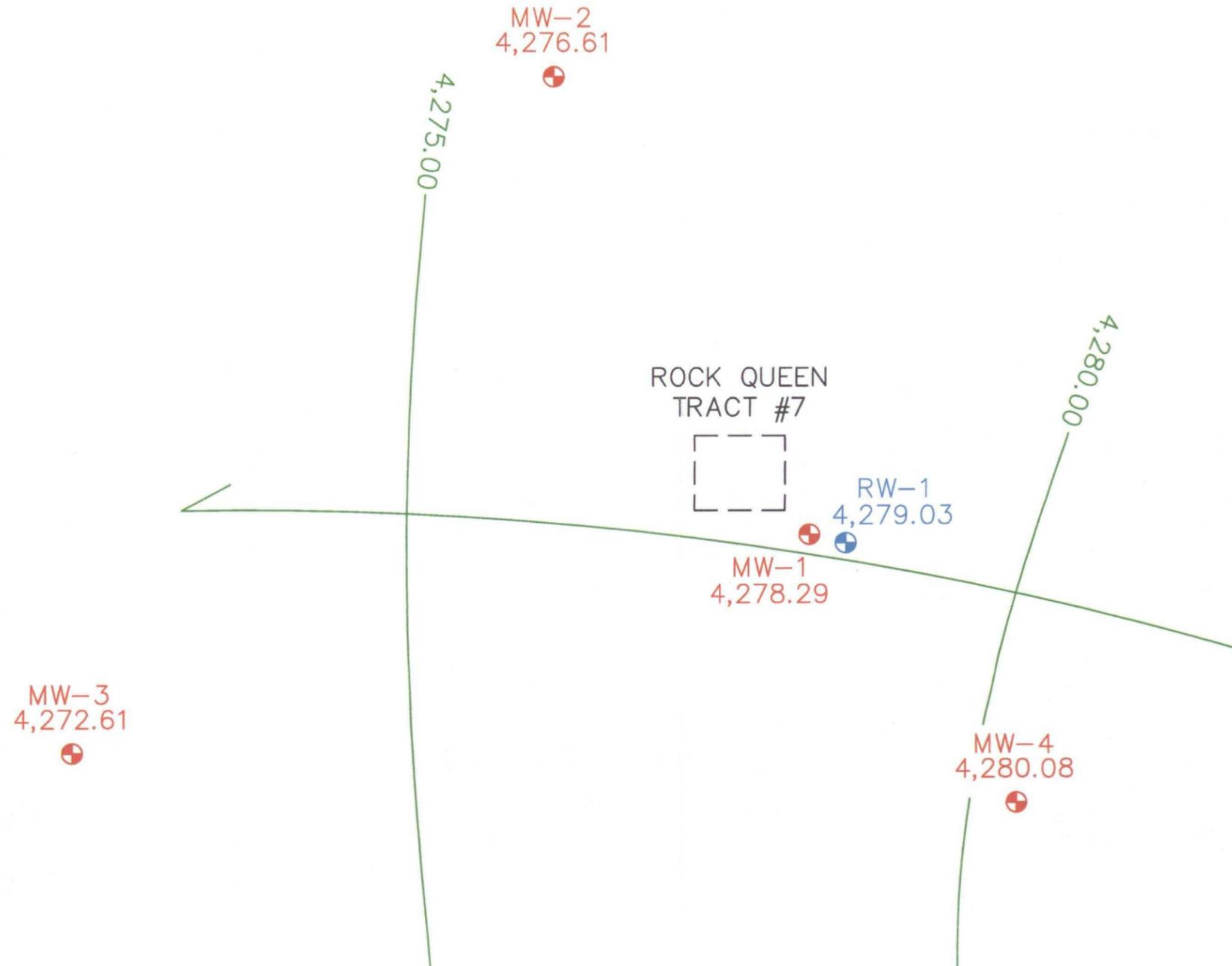


FIGURE NO. 6

CHAVES COUNTY, NEW MEXICO

CELERO ENERGY
ROCK QUEEN TRACT #7
GROUNDWATER GRADIENT MAP
GAUGED ON 7/29/2011

TETRA TECH, INC.
MIDLAND, TEXAS

C.I. = 5'

SCALE: 150'



DATE:
7/29/2011
DWN. BY:
IM
FILE:
C:\CELERO\3130\
GROUNDWATER MAP

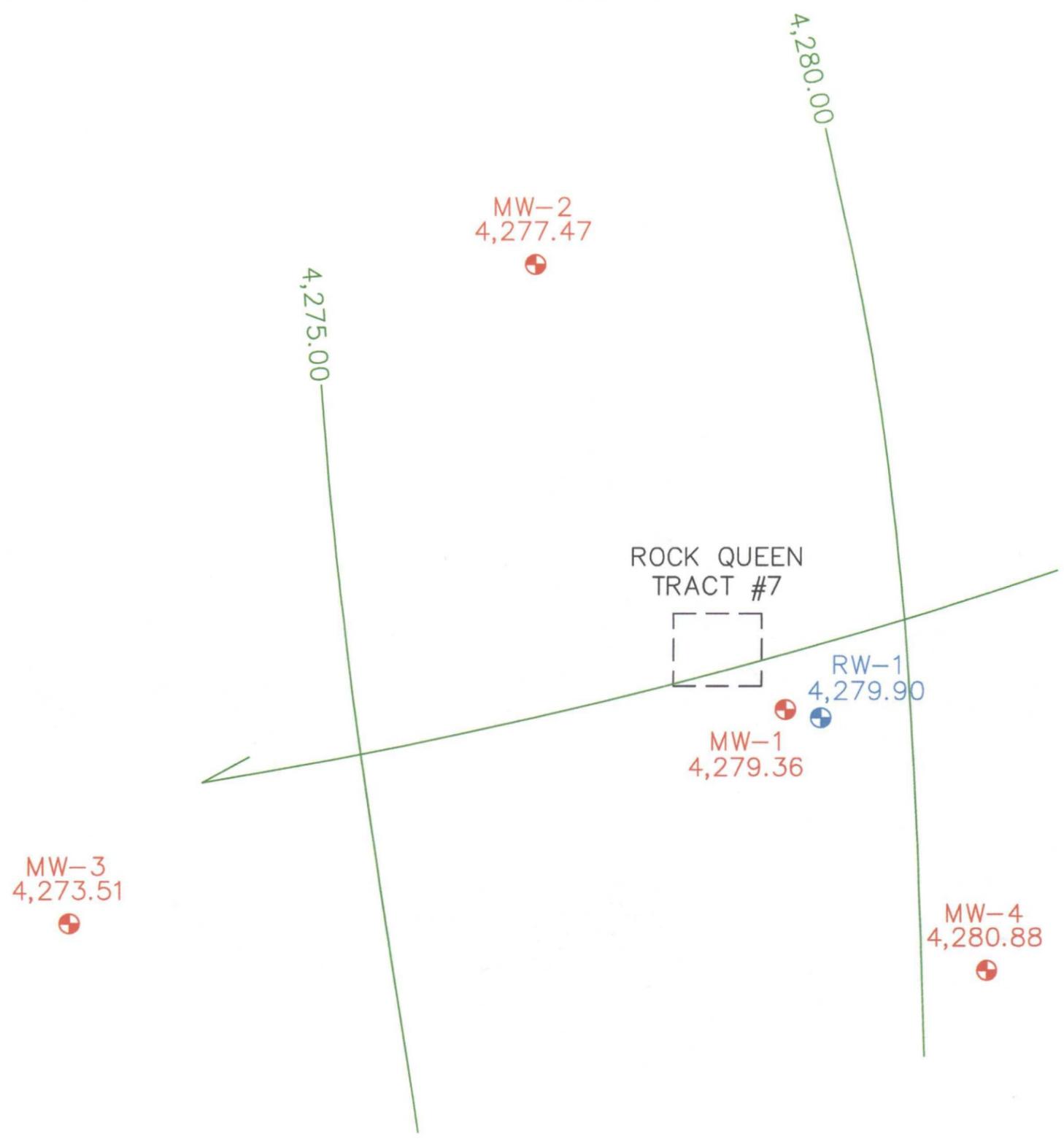


FIGURE NO. 7

CHAVES COUNTY, NEW MEXICO

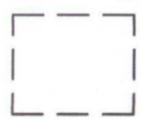
CELERO ENERGY
ROCK QUEEN TRACT #7
GROUNDWATER GRADIENT MAP
GAUGED ON 10/27/2011

TETRA TECH, INC.
MIDLAND, TEXAS

DATE:
10/27/2011
DWN. BY:
IM
FILE:
C:\CELERO\3130\
GROUNDWATER MAP



ROCK QUEEN
TRACT #7



MW-1
4,690

FIGURE NO. 8

CHAVES COUNTY, NEW MEXICO

CELERO ENERGY
ROCK QUEEN TRACT #7
CHLORIDE CONCENTRATION MAP
SAMPLED ON 11/24/2009

TETRA TECH, INC.
MIDLAND, TEXAS

SCALE: 150'



RESULTS IN mg/L

DATE:
11/24/2009
DWN. BY:
IM
FILE:
C:\CELERO\3130\
GROUNDWATER MAP



ROCK QUEEN
TRACT #7



MW-1
24,000

FIGURE NO. 9

CHAVES COUNTY, NEW MEXICO

CELERO ENERGY
ROCK QUEEN TRACT #7
CHLORIDE CONCENTRATION MAP
SAMPLED ON 02/25/2010

TETRA TECH, INC.
MIDLAND, TEXAS

SCALE: 150'



RESULTS IN mg/L

DATE:
02/25/2010
DWN. BY:
IM
FILE:
C:\CELERO\3130\
GROUNDWATER MAP



ROCK QUEEN
TRACT #7



MW-1
3,060

FIGURE NO. 10

CHAVES COUNTY, NEW MEXICO

CELERO ENERGY
ROCK QUEEN TRACT #7
CHLORIDE CONCENTRATION MAP
SAMPLED ON 7/12/2010

TETRA TECH, INC.
MIDLAND, TEXAS

SCALE: 150'

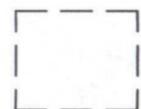
RESULTS IN mg/L



DATE:
7/12/2010
DWN. BY:
IM
FILE:
C:\CELERO\3130\
GROUNDWATER MAP



ROCK QUEEN
TRACT #7



MW-1
20,000

FIGURE NO. 11

CHAVES COUNTY, NEW MEXICO

CELERO ENERGY
ROCK QUEEN TRACT #7
CHLORIDE CONCENTRATION MAP
SAMPLED ON 10/11/2010

TETRA TECH, INC.
MIDLAND, TEXAS

SCALE: 150'



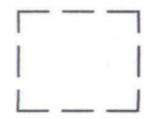
RESULTS IN mg/L

DATE:
10/11/2010
DWN. BY:
IM
FILE:
C:\CELERO\3130\
GROUNDWATER MAP



MW-2
45,100
+

ROCK QUEEN
TRACT #7



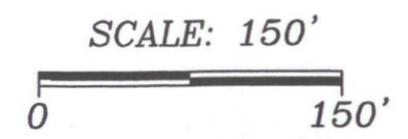
MW-1
18,200
+

RW-1
NS
+

MW-3
47,500
+

MW-4
< 125
+

RESULTS IN mg/L
NS- NOT SAMPLED



DATE:
01/19/2011
DWN. BY:
IM
FILE:
C:\CELERO\3130\
GROUNDWATER MAP

| |
|--------------------------------------------------------------------------------------------|
| FIGURE NO. 12 |
| CHAVES COUNTY, NEW MEXICO |
| CELERO ENERGY ROCK QUEEN TRACT #7 CHLORIDE CONCENTRATION MAP SAMPLED ON 1/19/2011 |
| TETRA TECH, INC. MIDLAND, TEXAS |



MW-2
19,100
+

ROCK QUEEN
TRACT #7



RW-1
NS

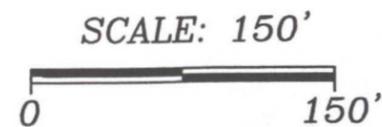
+

MW-1
20,500

MW-3
25,100
+

MW-4
510
+

RESULTS IN mg/L
NS- NOT SAMPLED



DATE:
4/14/2011
DWN. BY:
IM
FILE:
C:\CELERO\3130\
GROUNDWATER MAP

FIGURE NO. 13

CHAVES COUNTY, NEW MEXICO

CELERO ENERGY
ROCK QUEEN TRACT #7
CHLORIDE CONCENTRATION MAP
SAMPLED ON 4/14/11

TETRA TECH, INC.
MIDLAND, TEXAS



MW-2
11,700
+

ROCK QUEEN
TRACT #7



RW-1
NS

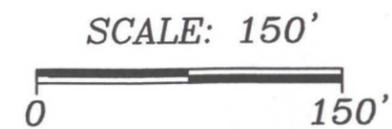
+

MW-1
20,500

MW-3
25,100
+

MW-4
127
+

RESULTS IN mg/L
NS- NOT SAMPLED



DATE:
7/29/2011
DWN. BY:
IM
FILE:
C:\CELERO\3130\
GROUNDWATER MAP

FIGURE NO. 14

CHAVES COUNTY, NEW MEXICO

CELERO ENERGY
ROCK QUEEN TRACT #7
CHLORIDE CONCENTRATION MAP
SAMPLED ON 7/29/2011

TETRA TECH, INC.
MIDLAND, TEXAS



MW-2
10,500
+

ROCK QUEEN
TRACT #7



RW-1
NS

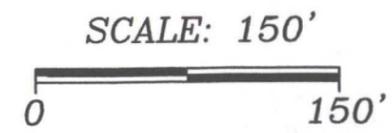
+

MW-1
13,100

MW-3
33,400
+

MW-4
144
+

RESULTS IN mg/L
NS- NOT SAMPLED



| | |
|----------|--------------------------------|
| DATE: | 10/28/2011 |
| DWN. BY: | IM |
| FILE: | C:\CELERO\3130\GROUNDWATER MAP |

| |
|---------------------------------------------------------------------------------------------|
| FIGURE NO. 15 |
| CHAVES COUNTY, NEW MEXICO |
| CELERO ENERGY ROCK QUEEN TRACT #7 CHLORIDE CONCENTRATION MAP SAMPLED ON 10/28/2011 |
| TETRA TECH, INC. MIDLAND, TEXAS |

TABLES

Table 1
 Celero Energy II, LP
 Groundwater Gauging Data
 Rock Queen Unit Tract #7
 Chaves County, New Mexico

| Monitor Well | Date Gauged | Date Well Installation | TOC Elevation (ft) | Depth of Well (bgs in ft) | Depth to Groundwater (ft) | Groundwater Elevation (ft) |
|--------------|-------------|------------------------|--------------------|---------------------------|---------------------------|----------------------------|
| MW-1 | 11/24/09 | 11/17/09 | 4,428.76 | 170.00 | 149.66 | 4,279.10 |
| | 02/25/10 | | | | 149.43 | 4,279.33 |
| | 07/12/10 | | | | 149.46 | 4,279.30 |
| | 10/11/10 | | | | 149.44 | 4,279.32 |
| | 01/17/11 | | | | 149.43 | 4,279.33 |
| | 04/11/11 | | | | 149.51 | 4,279.25 |
| | 07/29/11 | | | | 150.47 | 4,278.29 |
| | 10/27/11 | | | | 149.40 | 4,279.36 |
| MW-2 | 01/17/11 | 11/18/10 | 4,432.58 | 178.60 | 155.17 | 4,277.41 |
| | 04/11/11 | | | | 155.20 | 4,277.38 |
| | 07/29/11 | | | | 155.97 | 4,276.61 |
| | 10/27/11 | | | | 155.11 | 4,277.47 |
| MW-3 | 01/17/11 | 11/17/10 | 4,428.37 | 183.50 | 154.89 | 4,273.48 |
| | 04/11/11 | | | | 154.97 | 4,273.40 |
| | 07/29/11 | | | | 155.76 | 4,272.61 |
| | 10/27/11 | | | | 154.86 | 4,273.51 |
| MW-4 | 01/17/11 | 11/16/10 | 4,427.28 | 179.60 | 146.22 | 4,281.06 |
| | 04/11/11 | | | | 146.30 | 4,280.98 |
| | 07/29/11 | | | | 147.26 | 4,280.02 |
| | 10/27/11 | | | | 146.40 | 4,280.88 |
| RW-1 | 01/17/11 | 12/07/10 | 4,428.04 | 159.45 | 148.10 | 4,279.94 |
| | 04/11/11 | | | | 148.29 | 4,279.75 |
| | 07/29/11 | | | | 149.07 | 4,278.97 |
| | 10/27/11 | | | | 148.14 | 4,279.90 |

Table 2
 Celero Energy II, LP
 Groundwater Analytical Results
 Rock Queen Unit Tract #7
 Chaves County, New Mexico

| Monitor Well | Date Sampled | Dissolved Calcium (mg/L) | Dissolved Magnesium (mg/L) | Dissolved Sodium (mg/L) | Dissolved Potassium (mg/L) | Hydroxide Alkalinity (mg/L) | Carbonate Alkalinity (mg/L) | Bicarbonate Alkalinity (mg/L) | Total Alkalinity (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | TDS (mg/L) | Hardness (mg/L) | pH |
|--------------|--------------|--------------------------|----------------------------|-------------------------|----------------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------|----------------|-----------------|------------|-----------------|------|
| MW-1 | 11/24/09 | 1,730 | 430 | 585 | 15.3 | <1.00 | <1.00 | 114 | 114 | 150 | 4,690 | 9,100 | 6,100 | 7.55 |
| | 02/25/10 | 8,010 | 2,250 | 2,860 | 80.0 | <1.00 | <1.00 | 93 | 93 | 463 | 24,000 | 38,300 | 29,300 | 7.11 |
| | 07/12/10 | - | - | - | - | - | - | - | - | 316 | 3,060 | 3,060 | - | - |
| | 10/11/10 | - | - | - | - | - | - | - | - | 960 | 20,000 | 48,400 | - | - |
| | 01/19/11 | - | - | - | - | - | - | - | - | <2500 | 18,200 | 38,600 | - | - |
| | 04/14/11 | - | - | - | - | - | - | - | - | 1,020 | 20,500 | 32,000 | - | - |
| | 07/29/11 | - | - | - | - | - | - | - | - | 1,170 | 20,500 | 33,700 | - | - |
| | 10/28/11 | - | - | - | - | - | - | - | - | 1,270 | 13,100 | 23,200 | - | - |
| MW-2 | 01/19/11 | - | - | - | - | - | - | - | - | 1,250 | 45,100 | 78,200 | - | - |
| | 04/14/11 | - | - | - | - | - | - | - | - | 1,280 | 19,100 | 33,000 | - | - |
| | 07/29/11 | - | - | - | - | - | - | - | - | 1,570 | 11,700 | 25,900 | - | - |
| | 10/28/11 | - | - | - | - | - | - | - | - | 1,010 | 10,500 | 19,500 | - | - |
| MW-3 | 01/19/11 | - | - | - | - | - | - | - | - | 1,750 | 47,500 | 81,800 | - | - |
| | 04/14/11 | - | - | - | - | - | - | - | - | 1,170 | 25,100 | 41,000 | - | - |
| | 07/29/11 | - | - | - | - | - | - | - | - | 1,420 | 25,100 | 52,400 | - | - |
| | 10/28/11 | - | - | - | - | - | - | - | - | 1,480 | 33,400 | 57,000 | - | - |
| MW-4 | 01/19/11 | - | - | - | - | - | - | - | - | 279 | <125 | 792 | - | - |
| | 04/14/11 | - | - | - | - | - | - | - | - | 81 | 510 | 3,330 | - | - |
| | 07/29/11 | - | - | - | - | - | - | - | - | 114 | 127 | 648 | - | - |
| | 10/28/11 | - | - | - | - | - | - | - | - | 113 | 144 | 770 | - | - |
| RW-1 | 01/19/11 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | 04/14/11 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | 07/29/11 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | 10/28/11 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |

NS - Not sampled

(-) Not analyzed

Table 3
 Celero Energy II, LP
 Groundwater Analytical Results
 Rock Queen Unit Tract #7
 Chaves County, New Mexico

| Monitor Well | Date Sampled | Benzene in (mg/L) | Toluene in (mg/L) | Ethyl- Benzene (mg/L) | Xylene in (mg/L) | Total BTEX (mg/L) |
|--------------|--------------|-------------------------|-------------------------|-----------------------------|------------------------|-------------------------|
| MW-1 | 11/24/09 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 02/25/10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 07/12/10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 10/11/10 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 01/19/11 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 04/14/11 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 07/29/11 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| MW-2 | 10/28/11 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 01/19/11 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 04/14/11 | 0.0068 | <0.001 | <0.001 | <0.001 | 0.0068 |
| | 07/29/11 | 0.0065 | <0.001 | <0.001 | <0.001 | 0.0068 |
| MW-3 | 10/28/11 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 01/19/11 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 04/14/11 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 07/29/11 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| MW-4 | 10/28/11 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 01/19/11 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 04/14/11 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 07/29/11 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| RW-1 | 10/28/11 | NS | NS | NS | NS | NS |
| | 01/19/11 | NS | NS | NS | NS | NS |
| | 04/14/11 | NS | NS | NS | NS | NS |
| | 07/29/11 | NS | NS | NS | NS | NS |

NS - Not sampled

**APPENDIX A
BORING LOGS**

SAMPLE LOG

Boring/Well MW-1
GPS N33.172564° W103.804064°
Project Number 115-6403130A
Client Celero Energy II, LP
Site Name Rock Queen Unit Tract # 7 Tank Battery
Site Location Chaves County, New Mexico
Letter I, Section 22, Township 13 South, Range 31 East
Total Depth 170
Date Installed 11/17/09

| DEPTH (Ft) | OVM | SAMPLE DESCRIPTION |
|------------|-----|-----------------------------------------------------------------|
| 3-5 | -- | Hard buff limestone |
| 8-10 | -- | Hard buff limestone with chert |
| 13-15 | -- | Hard tan sandy limestone |
| 18-20 | -- | Tan fine grain sand |
| 23-25 | -- | Tan fine grain sand |
| 28-30 | -- | Tan fine grain sand |
| 33-35 | -- | Tan fine grain sand |
| 38-40 | -- | Tan fine grain sand |
| 43-45 | -- | Tan fine grain sand |
| 48-50 | -- | Tan fine grain sand |
| 53-55 | -- | Tan fine grain sand |
| 58-60 | -- | Tan fine grain sand |
| 63-65 | -- | Tan to brown fine grain well sorted sand |
| 68-70 | -- | Tan to brown fine grain well sorted sand |
| 73-75 | -- | Tan to brown fine grain well sorted sand |
| 78-80 | -- | Tan to brown fine grain well sorted sand (Mud up) |
| 83-85 | -- | Tan to brown fine grain well sorted sand |
| 88-90 | -- | Tan to brown fine grain well sorted sand with gravel intermixed |
| 93-95 | -- | Tan to brown fine grain well sorted sand with gravel intermixed |
| 98-100 | -- | Tan to brown fine grain well sorted sand |
| 103-105 | -- | Tan to brown fine grain well sorted sand |
| 108-110 | -- | Tan to brown fine grain well sorted sand |
| 113-115 | -- | Tan to brown fine grain well sorted sand |
| 118-120 | -- | Tan to brown fine grain well sorted sand |
| 123-125 | -- | Tan to brown fine grain well sorted sand |

SAMPLE LOG

Boring/Well MW-1
GPS N33.172564° W103.804064°
Project Number 115-6403130A
Client Celero Energy II, LP
Site Name Rock Queen Unit Tract # 7 Tank Battery
Site Location Chaves County, New Mexico
Letter I, Section 22, Township 13 South, Range 31 East
Total Depth 170
Date Installed 11/17/09

| DEPTH (Ft) | OVM | SAMPLE DESCRIPTION |
|------------|-----|------------------------------------------|
| 128-130 | -- | Tan to brown fine grain well sorted sand |
| 133-135 | -- | Tan to brown fine grain well sorted sand |
| 138-140 | -- | Tan to brown fine grain well sorted sand |
| 143-145 | -- | Tan to brown fine grain well sorted sand |
| 148-150 | -- | Tan to brown fine grain well sorted sand |
| 153-155 | -- | Red to brown sandy clay |
| 158-160 | -- | Red to brown sandy clay |
| 163-165 | -- | Red to brown sandy clay |
| 168-170 | -- | Red to brown sandy clay |

Total Depth: 170' Depth to groundwater encountered unknown.

SAMPLE LOG

Boring/Well MW-2
GPS N33.17362° W103.80504°
Project Number 115-6403130A
Client Celero Energy II, LP
Site Name Rock Queen Unit Tract #7 Tank Battery
Site Location Chaves, New Mexico
Letter I, Section 22, Township 13 South, Range 31 East
Total Depth 175'
Date Installed 11/18/10

| Depth (Ft) | OVM | Sample Description |
|------------|-----|--------------------------------------------------------------------|
| 5-6' | -- | Caliche with Buff Sand and 15%Chert |
| 10-11' | -- | Caliche with 10% Chert |
| 15-16' | -- | Caliche with Buff Sand and 5% Chert |
| 20-21' | -- | Buff Sand with 15% Caliche |
| 25-26' | -- | Light Brown Fine Grain Well Sorted Sand |
| 30-31' | -- | Light Brown Fine Grain Well Sorted Sand |
| 35-36' | -- | Light Brown Fine Grain Well Sorted Sand |
| 40-41' | -- | Light Brown Fine Grain Well Sorted Sand |
| 45-46' | -- | Light Brown Fine Grain Well Sorted Sand |
| 50-51' | -- | Light Brown Fine Grain Well Sorted Sand |
| 55-56' | -- | Light Brown Fine Grain Well Sorted Sand |
| 60-61' | -- | Brown Fine Grain Well Sorted Sand |
| 65-66' | -- | Brown Fine Grain Well Sorted Sand |
| 70-71' | -- | Brown Fine Grain Well Sorted Sand |
| 75-76' | -- | Brown Fine Grain Well Sorted Sand |
| 80-81' | -- | Brown Fine Grain Well Sorted Sand |
| 85-86' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 90-91' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 95-96' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 100-101' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 105-106' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 110-111' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 115-116' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 120-121' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 125-126' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |

SAMPLE LOG

Boring/Well MW-2
GPS N33.17362° W103.80504°
Project Number 115-6403130A
Client Celero Energy II, LP
Site Name Rock Queen Unit Tract #7 Tank Battery
Site Location Chaves, New Mexico
Letter I, Section 22, Township 13 South, Range 31 East
Total Depth 175'
Date Installed 11/18/10

| | | |
|----------|----|--------------------------------------------------------------------|
| 130-131' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 135-136' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 140-141' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 145-146' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 150-151' | -- | Brown Fine Grain Well Sorted Sand with Rounded and Angular Caliche |
| 155-156' | -- | Blue Brown Clay with Angular Caliche |
| 160-161' | -- | Blue Brown Clay with Red Bed |
| 165-166' | -- | Red Bed |
| 170-171' | -- | Red Bed |
| 175' | -- | Red Bed |

Total Depth: 175' Ground water depth not encountered while drilling.

SAMPLE LOG

Boring/Well MW-3
GPS N33.17220° W103.80511°
Project Number: 115-6403130A
Client Celero Energy II, LP
Site Name Rock Queen Unit Tract #7 Tank Battery
Site Location Chaves, New Mexico
Letter J, Section 22, Township 13 South, Range 31 East
Total Depth 180'
Date Installed 11/17/10

| Depth (Ft) | OVM | Sample Description |
|------------|-----|-----------------------------------------------------------------|
| 5-6' | -- | Caliche |
| 10-11' | -- | Caliche and Chert |
| 15-16' | -- | Caliche |
| 20-21' | -- | Light Brown Fine Grain Sand |
| 25-26' | -- | Light Tan Fine Grain Sand with 20% Caliche |
| 30-31' | -- | Light Tan Fine Grain Sand with 20% Caliche |
| 35-36' | -- | Light Tan Fine Grain Sand with 20% Caliche |
| 40-41' | -- | Light Tan Fine Grain Sand with 20% Caliche |
| 45-46' | -- | Light Tan Fine Grain Sand with 20% Caliche |
| 50-51' | -- | Light Tan Fine Grain Sand with 20% Caliche |
| 55-56' | -- | Light Brown Fine Grain Well Sorted Sand |
| 60-61' | -- | Light Brown Fine Grain Well Sorted Sand |
| 65-66' | -- | Light Brown Fine Grain Well Sorted Sand |
| 70-71' | -- | Light Brown Fine Grain Well Sorted Sand |
| 75-76' | -- | Light Brown Fine Grain Well Sorted Sand |
| 80-81' | -- | Light Brown Fine Grain Well Sorted Sand |
| 85-86' | -- | Light Brown Fine Grain Well Sorted Sand with 10% Angular Gravel |
| 90-91' | -- | Light Brown Fine Grain Well Sorted Sand with 10% Angular Gravel |
| 95-96' | -- | Light Brown Fine Grain Well Sorted Sand with 5% Angular Gravel |
| 100-101' | -- | Light Brown Fine Grain Well Sorted Sand with 5% Angular Gravel |
| 105-106' | -- | Light Brown Fine Grain Well Sorted Sand with 5% Angular Gravel |
| 110-111' | -- | Light Brown Fine Grain Well Sorted Sand with 10% Angular Gravel |
| 115-116' | -- | Light Brown Fine Grain Well Sorted Sand with 10% Angular Gravel |
| 120-121' | -- | Light Brown Fine Grain Well Sorted Sand with 10% Angular Gravel |
| 125-126' | -- | Light Brown Fine Grain Well Sorted Sand with 10% Angular Gravel |

SAMPLE LOG

Boring/Well **MW-3**
GPS **N33.17220° W103.80511°**
Project Number: **115-6403130A**
Client **Celero Energy II, LP**
Site Name **Rock Queen Unit Tract #7 Tank Battery**
Site Location **Chaves, New Mexico**
Letter J, Section 22, Township 13 South, Range 31 East
Total Depth **180'**
Date Installed **11/17/10**

| | | |
|----------|----|-----------------------------------------|
| 130-131' | -- | Light Brown Fine Grain Well Sorted Sand |
| 135-136' | -- | Light Brown Fine Grain Well Sorted Sand |
| 140-141' | -- | Light Brown Fine Grain Well Sorted Sand |
| 145-146' | -- | Light Brown Fine Grain Well Sorted Sand |
| 150-151' | -- | Light Brown Fine Grain Well Sorted Sand |
| 155-156' | -- | Light Brown Fine Grain Well Sorted Sand |
| 160-161' | -- | Light Brown Fine Grain Well Sorted Sand |
| 165-166' | -- | Light Brown Fine Grain Well Sorted Sand |
| 170-171' | -- | Red Bed |
| 175-176' | -- | Red Bed with Blue Green Clay |
| 180 | -- | Red Bed |

Total Depth: 175' Ground water depth not encountered while drilling.

SAMPLE LOG

Boring/Well MW-4
GPS N33.17218° W103.80413°
Project Number 115-6403130A
Client Celero Energy II, LP
Site Name Rock Queen Unit Tract #7 Tank Battery
Site Location Chaves, New Mexico
Letter I, Section 22, Township 13 South, Range 31 East
Total Depth 175'
Date Installed 11/16/10

| Depth (Ft) | OVM | Sample Description |
|------------|-----|--------------------------------------------|
| 5-6' | -- | Caliche |
| 10-11' | -- | Caliche and Chert |
| 15-16' | -- | Caliche |
| 20-21' | -- | Light Brown Fine Grain Sand |
| 25-26' | -- | Light Tan Fine Grain Sand with 30% Caliche |
| 30-31' | -- | Light Tan Fine Grain Sand with 30% Caliche |
| 35-36' | -- | Light Tan Fine Grain Sand with 30% Caliche |
| 40-41' | -- | Light Tan Fine Grain Sand with 30% Caliche |
| 45-46' | -- | Light Brown Fine Grain Well Sorted Sand |
| 50-51' | -- | Light Brown Fine Grain Well Sorted Sand |
| 55-56' | -- | Light Brown Fine Grain Well Sorted Sand |
| 60-61' | -- | Light Brown Fine Grain Well Sorted Sand |
| 65-66' | -- | Light Brown Fine Grain Well Sorted Sand |
| 70-71' | -- | Light Brown Fine Grain Well Sorted Sand |
| 75-76' | -- | Light Brown Fine Grain Well Sorted Sand |
| 80-81' | -- | Light Brown Fine Grain Well Sorted Sand |
| 85-86' | -- | Light Brown Fine Grain Well Sorted Sand |
| 90-91' | -- | Light Brown Fine Grain Well Sorted Sand |
| 95-96' | -- | Light Brown Fine Grain Well Sorted Sand |
| 100-101' | -- | Light Brown Fine Grain Well Sorted Sand |
| 105-106' | -- | Light Brown Fine Grain Well Sorted Sand |
| 110-111' | -- | Light Brown Fine Grain Well Sorted Sand |
| 115-116' | -- | Light Brown Fine Grain Well Sorted Sand |
| 120-121' | -- | Light Brown Fine Grain Medium Sorted Sand |
| 125-126' | -- | Light Brown Fine Grain Medium Sorted Sand |

SAMPLE LOG

Boring/Well MW-4
GPS N33.17218° W103.80413°
Project Number 115-6403130A
Client Celero Energy II, LP
Site Name Rock Queen Unit Tract #7 Tank Battery
Site Location Chaves, New Mexico
Letter I, Section 22, Township 13 South, Range 31 East
Total Depth 175'
Date Installed 11/16/10

| | | |
|----------|----|-------------------------------------------------|
| 130-131' | -- | Light Brown Fine Grain Medium Sorted Sand |
| 135-136' | -- | Light Brown Fine Grain Medium Sorted Sand |
| 140-141' | -- | Light Brown Fine Grain Medium Sorted Sand |
| 145-146' | -- | Light Brown Fine Grain Medium Sorted Sand |
| 150-151' | -- | Light Brown Fine Grain Sand with Blue Grey Clay |
| 155-156' | -- | Light Brown Fine Grain Sand with Blue Grey Clay |
| 160-161' | -- | Light Brown Fine Grain Sand with Blue Grey Clay |
| 165-166' | -- | Red Bed |
| 170-171' | -- | Red Bed |
| 175' | -- | Red Bed |

Total Depth: 175' Ground water depth not encountered while drilling.

SAMPLE LOG

Boring/Well RW-1
GPS N33.172547° W103.803986°
Project Number 115-6403130A
Client Celero Energy II, LP
Site Name Rock Queen Unit Tract #7 Tank Battery
Site Location Chaves, New Mexico
Letter I, Section 22, Township 13 South, Range 31 East
Total Depth 155
Date Installed 12/7/10 to 12/8/10

| Depth (Ft) | OVM | Sample Description |
|------------|-----|--------------------------------------------|
| 5-6' | -- | Buff limestone |
| 10-11' | -- | Buff to tan sandy limestone |
| 15-16' | -- | Tan to buff fine grain calcareous sand |
| 20-21' | -- | Tan fine grain well sorted calcareous sand |
| 25-26' | -- | Tan fine grain well sorted calcareous sand |
| 30-31' | -- | Tan fine grain well sorted calcareous sand |
| 35-36' | -- | Tan fine grain well sorted calcareous sand |
| 40-41' | -- | Tan fine grain well sorted calcareous sand |
| 45-46' | -- | Tan fine grain well sorted sand |
| 50-51' | -- | Tan fine grain well sorted sand |
| 55-56' | -- | Tan fine grain well sorted sand |
| 60-61' | -- | Tan fine grain well sorted sand |
| 65-66' | -- | Tan fine grain well sorted sand |
| 70-71' | -- | Tan fine grain well sorted sand |
| 75-76' | -- | Tan fine grain well sorted sand |
| 80-81' | -- | Tan fine grain well sorted sand |
| 85-86' | -- | Tan fine grain well sorted sand |
| 90-91' | -- | Tan fine grain well sorted sand |
| 95-96' | -- | Tan fine grain well sorted sand |
| 100-101' | -- | Tan fine grain sand with gravel |
| 105-106' | -- | Tan fine grain sand with gravel |
| 110-111' | -- | Tan fine grain sand with gravel |
| 115-116' | -- | Tan fine grain sand with gravel |
| 120-121' | -- | Tan fine grain sand with gravel |
| 125-126' | -- | Tan fine grain sand with gravel |

SAMPLE LOG

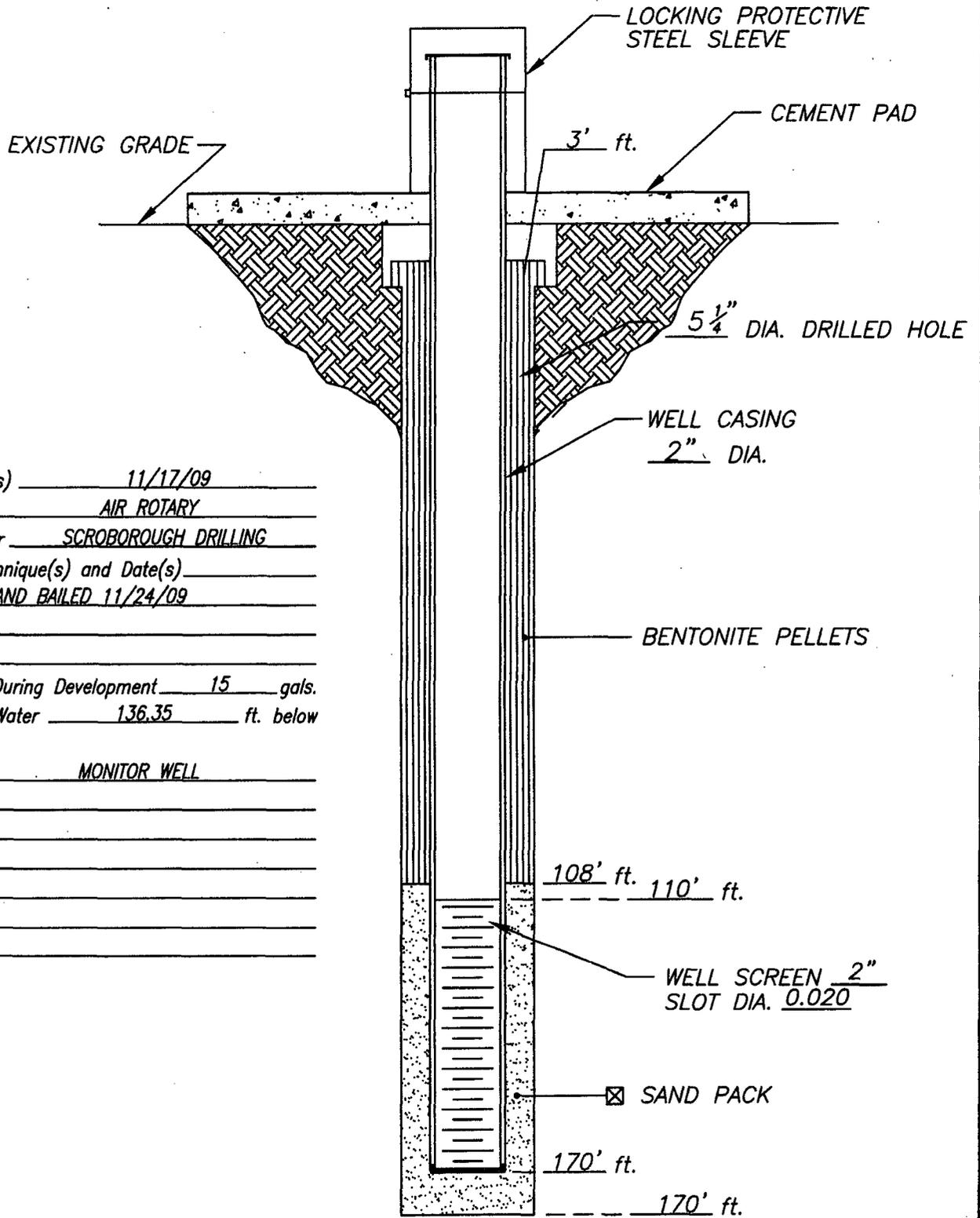
Boring/Well RW-1
GPS N33.172547° W103.803986°
Project Number 115-6403130A
Client Celero Energy II, LP
Site Name Rock Queen Unit Tract #7 Tank Battery
Site Location Chaves, New Mexico
Letter I, Section 22, Township 13 South, Range 31 East
Total Depth 155
Date Installed 12/7/10 to 12/8/10

| | | |
|----------|----|---------------------------------|
| 130-131' | -- | Tan fine grain sand with gravel |
| 135-136' | -- | Tan fine grain sand with gravel |
| 140-141' | -- | Tan fine grain sand with gravel |
| 145-146' | -- | Tan fine grain sand with gravel |
| 150-151' | -- | Tan to red clay |
| 155-156' | -- | Tan to red clay |

Total Depth: 155' Ground water depth not encountered while drilling.

APPENDIX B
MONITOR WELL INSTALLATION DIAGRAMS

WELL CONSTRUCTION LOG



Installation Date(s) 11/17/09
 Drilling Method AIR ROTARY
 Drilling Contractor SCROBOROUGH DRILLING
 Development Technique(s) and Date(s) HAND BAILED 11/24/09

Water Removed During Development 15 gals.
 Static Depth to Water 136.35 ft. below
 Ground Level
 Well Purpose MONITOR WELL

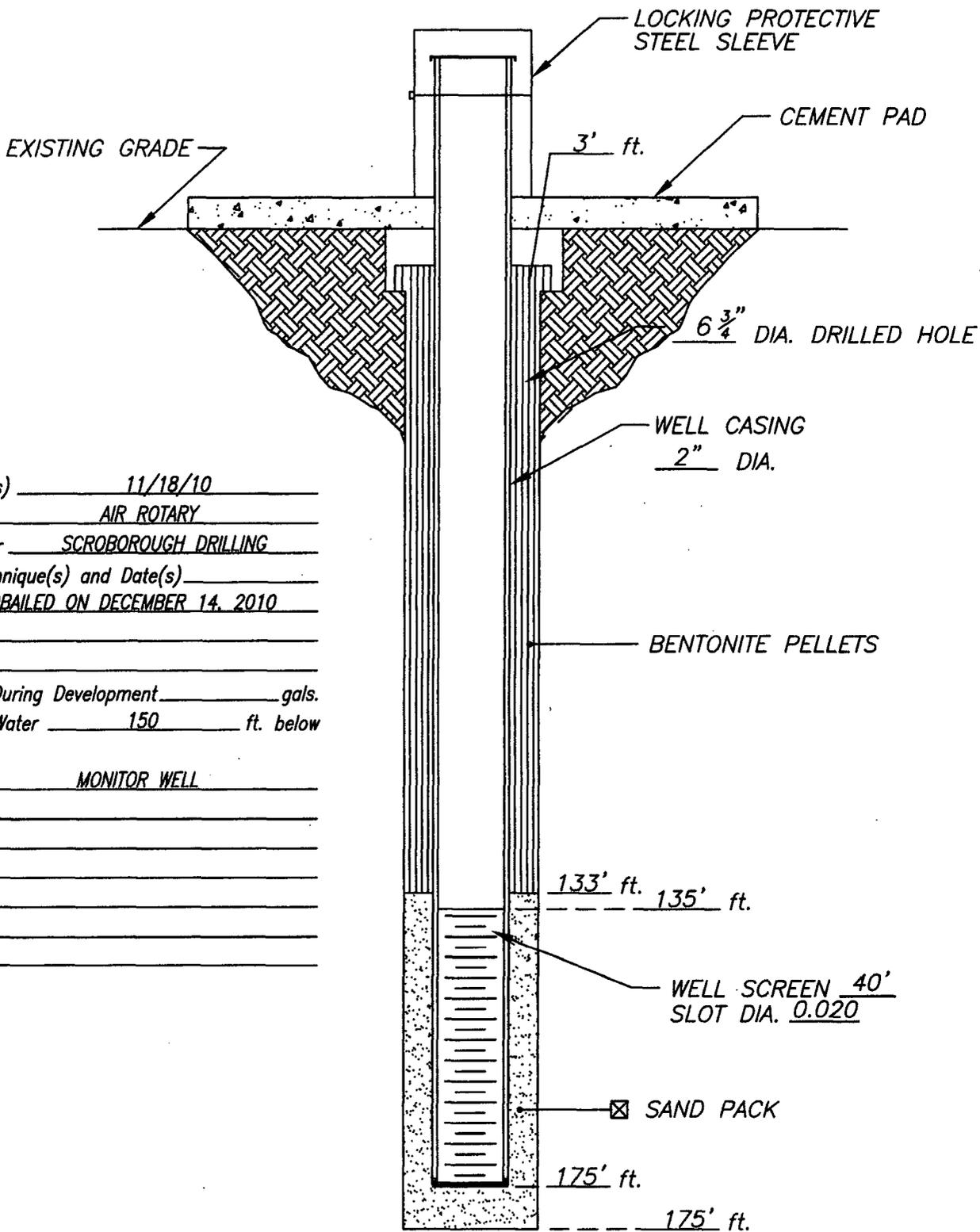
Remarks _____

DATE: 11/20/09
TETRA TECH, INC.
MIDLAND, TEXAS

CLIENT: CELERO ENERGY II, LLC
 PROJECT: ROCK QUEEN TRACT #7
 LOCATION: CHAVES COUNTY, NEW MEXICO

WELL NO.
MW-1

WELL CONSTRUCTION LOG



Installation Date(s) 11/18/10
 Drilling Method AIR ROTARY
 Drilling Contractor SCROBOROUGH DRILLING
 Development Technique(s) and Date(s) HANDBAILED ON DECEMBER 14, 2010

Water Removed During Development _____ gals.
 Static Depth to Water 150 ft. below
 Ground Level
 Well Purpose MONITOR WELL

Remarks _____

DATE: 11/18/10

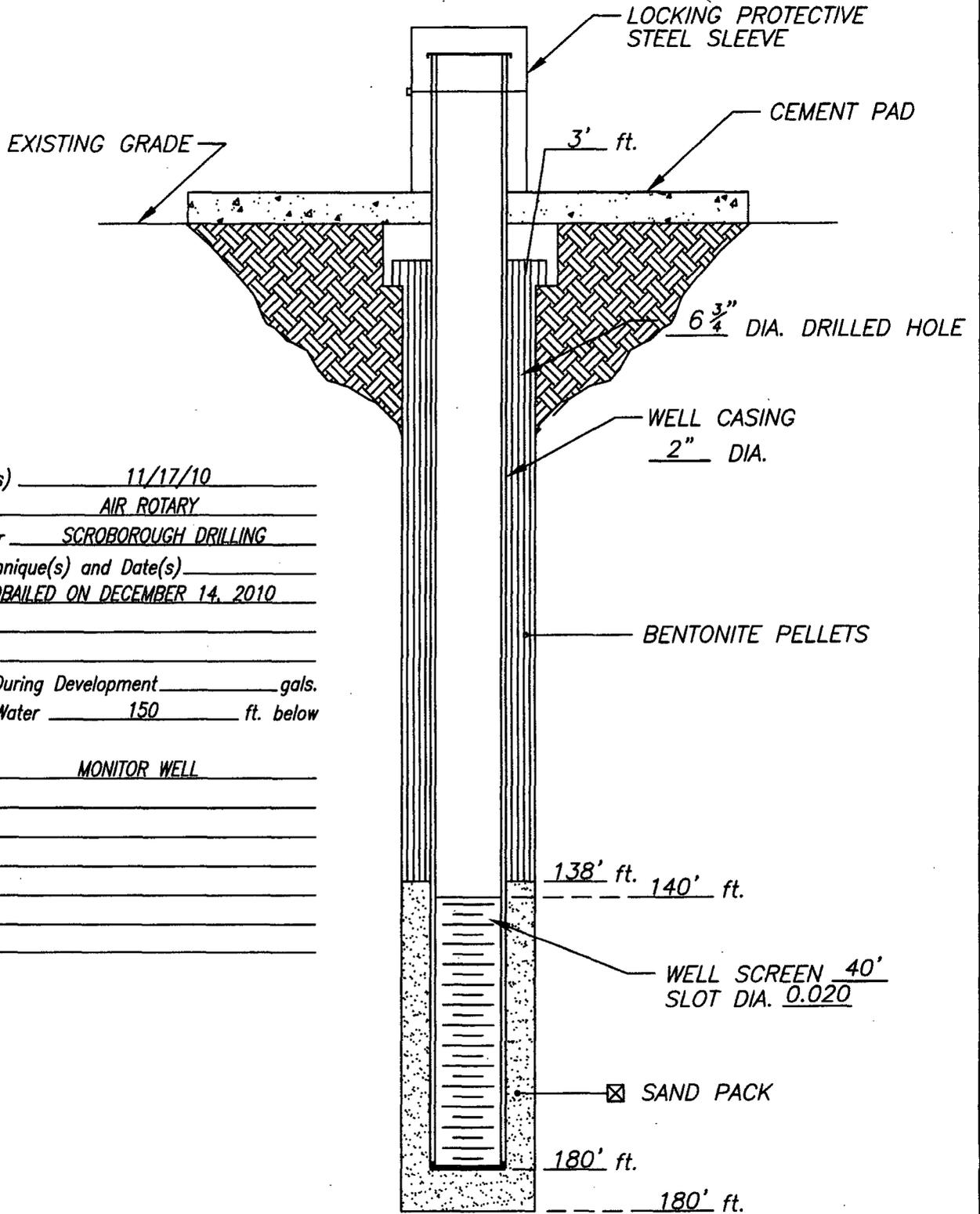
TETRA TECH, INC.
MIDLAND, TEXAS

CLIENT: *CELERO ENERGY II, LLC*
 PROJECT: *ROCK QUEEN TRACT #7*
 LOCATION: *CHAVES COUNTY, NEW MEXICO*

WELL NO.

MW-2

WELL CONSTRUCTION LOG



Installation Date(s) 11/17/10
 Drilling Method AIR ROTARY
 Drilling Contractor SCROBOROUGH DRILLING
 Development Technique(s) and Date(s) HANDBAILED ON DECEMBER 14, 2010

Water Removed During Development _____ gals.
 Static Depth to Water 150 ft. below
 Ground Level
 Well Purpose MONITOR WELL

Remarks _____

DATE: 11/17/10

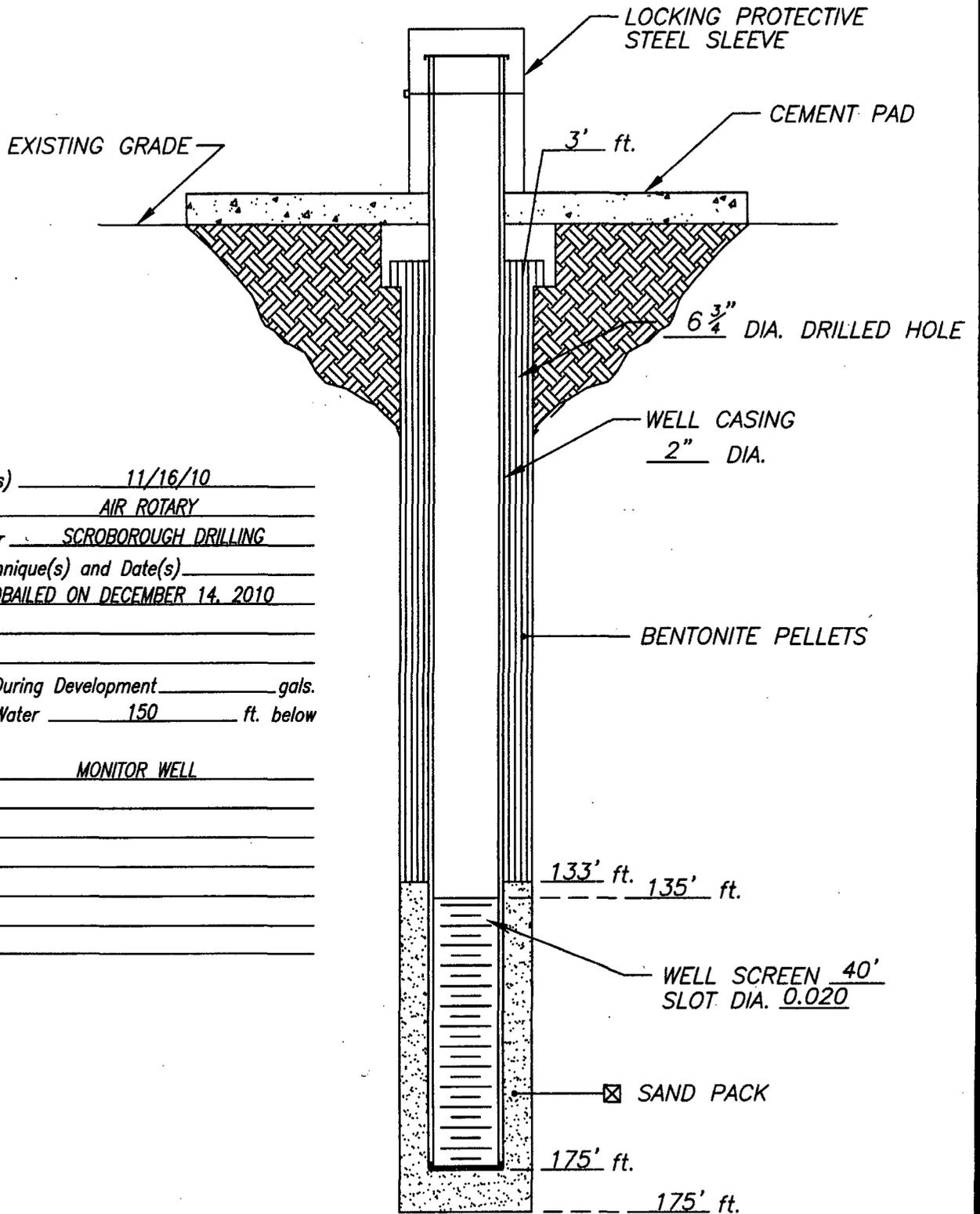
TETRA TECH, INC.
MIDLAND, TEXAS

CLIENT: CELERO ENERGY II, LLC
 PROJECT: ROCK QUEEN TRACT #7
 LOCATION: CHAVES COUNTY, NEW MEXICO

WELL NO.

MW-3

WELL CONSTRUCTION LOG



Installation Date(s) 11/16/10
 Drilling Method AIR ROTARY
 Drilling Contractor SCROBOROUGH DRILLING
 Development Technique(s) and Date(s) _____
HANDBAILED ON DECEMBER 14, 2010

Water Removed During Development _____ gals.
 Static Depth to Water 150 ft. below
 Ground Level
 Well Purpose MONITOR WELL

Remarks _____

DATE: 11/16/10

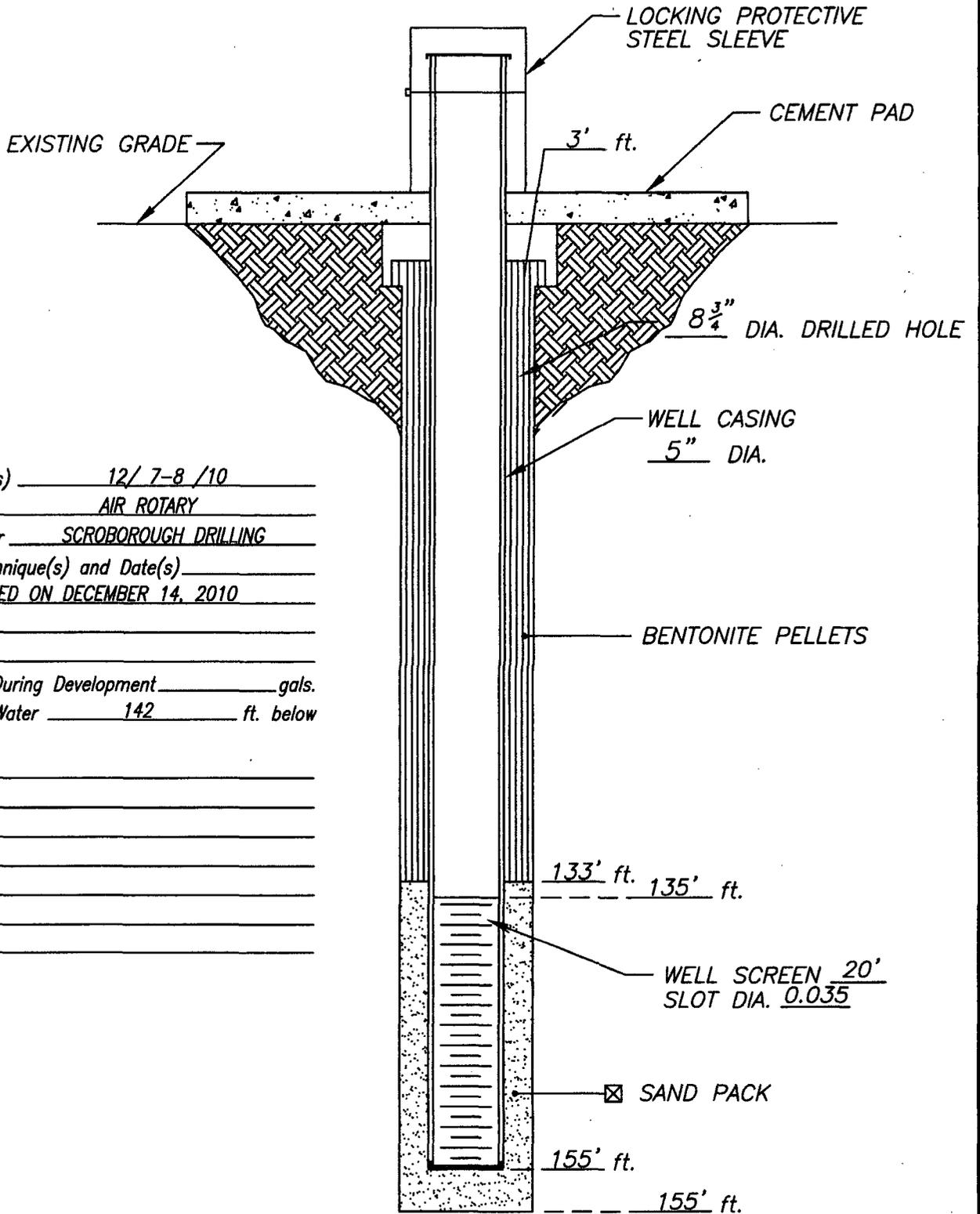
TETRA TECH, INC.
MIDLAND, TEXAS

CLIENT: *CELERO ENERGY II, LLC*
 PROJECT: *ROCK QUEEN TRACT #7*
 LOCATION: *CHAVES COUNTY, NEW MEXICO*

WELL NO.

MW-4

WELL CONSTRUCTION LOG



Installation Date(s) 12/ 7-8 /10
 Drilling Method AIR ROTARY
 Drilling Contractor SCROBOROUGH DRILLING
 Development Technique(s) and Date(s)
HANDBAILED ON DECEMBER 14, 2010

Water Removed During Development _____ gals.
 Static Depth to Water 142 ft. below
 Ground Level
 Well Purpose _____

Remarks _____

DATE: 12/7/10

TETRA TECH, INC.
MIDLAND, TEXAS

CLIENT: *CELERO ENERGY II, LLC*
 PROJECT: *ROCK QUEEN TRACT #7*
 LOCATION: *CHAVES COUNTY, NEW MEXICO*

WELL NO.

RW-1

APPENDIX C
LABORATORY ANALYSIS



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
 200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
 5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
 6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
 E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX **El Paso:** T104704221-08-TX **Midland:** T104704392-08-TX
 LELAP-02003 LELAP-02002
 Kansas E-10317

Analytical and Quality Control Report

Jeff Kindley
 Tetra Tech
 1910 N. Big Spring Street
 Midland, TX, 79705

Report Date: December 7, 2009

Work Order: 9112520



Project Location: Chavez Co., NM
 Project Name: Celero/Tract 7
 Project Number: 115-6403130A

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 215843 | MW-1 | water | 2009-11-24 | 14:45 | 2009-11-25 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 15 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael Abel

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project Celero/Tract 7 were received by TraceAnalysis, Inc. on 2009-11-25 and assigned to work order 9112520. Samples for work order 9112520 were received intact without headspace and at a temperature of 3.2 deg. C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|---------------|------------|---------------|---------------------|-------------|---------------------|
| Alkalinity | SM 2320B | 56132 | 2009-12-01 at 10:04 | 65677 | 2009-12-01 at 16:04 |
| BTEX | S 8021B | 56178 | 2009-12-02 at 10:28 | 65725 | 2009-12-02 at 10:28 |
| Ca, Dissolved | S 6010B | 56137 | 2009-12-02 at 09:55 | 65745 | 2009-12-03 at 14:57 |
| Chloride (IC) | E 300.0 | 56093 | 2009-11-30 at 12:22 | 65660 | 2009-12-01 at 08:59 |
| Hardness | S 6010B | 56137 | 2009-12-02 at 09:55 | 65745 | 2009-12-03 at 14:57 |
| K, Dissolved | S 6010B | 56137 | 2009-12-02 at 09:55 | 65745 | 2009-12-03 at 14:57 |
| Mg, Dissolved | S 6010B | 56137 | 2009-12-02 at 09:55 | 65745 | 2009-12-03 at 14:57 |
| Na, Dissolved | S 6010B | 56137 | 2009-12-02 at 09:55 | 65745 | 2009-12-03 at 14:57 |
| pH | SM 4500-H+ | 56049 | 2009-11-25 at 11:09 | 65589 | 2009-11-25 at 12:09 |
| SO4 (IC) | E 300.0 | 56093 | 2009-11-30 at 12:22 | 65660 | 2009-12-01 at 08:59 |
| TDS | SM 2540C | 56115 | 2009-12-01 at 10:13 | 65808 | 2009-12-07 at 14:46 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 9112520 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 215843 - MW-1

| | | |
|----------------------|--------------------------------|------------------|
| Laboratory: Midland | Analytical Method: SM 2320B | Prep Method: N/A |
| Analysis: Alkalinity | Date Analyzed: 2009-12-01 | Analyzed By: AR |
| QC Batch: 65677 | Sample Preparation: 2009-12-01 | Prepared By: AR |
| Prep Batch: 56132 | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|---------------|----------|------|
| Hydroxide Alkalinity | | <1.00 | mg/L as CaCo3 | 1 | 1.00 |
| Carbonate Alkalinity | | <1.00 | mg/L as CaCo3 | 1 | 1.00 |
| Bicarbonate Alkalinity | | 114 | mg/L as CaCo3 | 1 | 4.00 |
| Total Alkalinity | | 114 | mg/L as CaCo3 | 1 | 4.00 |

Sample: 215843 - MW-1

| | | |
|---------------------|--------------------------------|----------------------|
| Laboratory: Midland | Analytical Method: S 8021B | Prep Method: S 5030B |
| Analysis: BTEX | Date Analyzed: 2009-12-02 | Analyzed By: tn |
| QC Batch: 65725 | Sample Preparation: 2009-12-02 | Prepared By: tn |
| Prep Batch: 56178 | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.103 | mg/L | 1 | 0.100 | 103 | 70.9 - 119.8 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0881 | mg/L | 1 | 0.100 | 88 | 68.1 - 118.8 |

Sample: 215843 - MW-1

| | | |
|---------------------|--------------------------------|----------------------|
| Laboratory: Lubbock | Analytical Method: S 6010B | Prep Method: S 3005A |
| Analysis: Cations | Date Analyzed: 2009-12-03 | Analyzed By: RR |
| QC Batch: 65745 | Sample Preparation: 2009-12-02 | Prepared By: KV |
| Prep Batch: 56137 | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-------------------|------|--------------|-------|----------|------|
| Dissolved Calcium | | 1730 | mg/L | 10 | 1.00 |

continued ...

sample 215843 continued ...

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---------------------|------|--------------|-------|----------|------|
| Dissolved Potassium | | 15.3 | mg/L | 1 | 1.00 |
| Dissolved Magnesium | | 430 | mg/L | 10 | 1.00 |
| Dissolved Sodium | | 585 | mg/L | 10 | 1.00 |

Sample: 215843 - MW-1

Laboratory: Midland
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 65660 Date Analyzed: 2009-12-01 Analyzed By: AR
Prep Batch: 56093 Sample Preparation: 2009-11-30 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|-------|
| Chloride | | 4690 | mg/L | 500 | 0.500 |

Sample: 215843 - MW-1

Laboratory: Lubbock
Analysis: Hardness Analytical Method: S 6010B Prep Method: N/A
QC Batch: 65745 Date Analyzed: 2009-12-03 Analyzed By: RR
Prep Batch: 56137 Sample Preparation: 2009-12-02 Prepared By: KV

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-------------------|------|--------------|---------------|----------|------|
| Hardness (by ICP) | | 6100 | mg eq CaCO3/L | 1 | 0.00 |

Sample: 215843 - MW-1

Laboratory: Midland
Analysis: pH Analytical Method: SM 4500-H+ Prep Method: N/A
QC Batch: 65589 Date Analyzed: 2009-11-25 Analyzed By: AR
Prep Batch: 56049 Sample Preparation: 2009-11-25 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| pH | | 7.55 | s.u. | 1 | 0.00 |

Sample: 215843 - MW-1

Laboratory: Midland
Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 65660 Date Analyzed: 2009-12-01 Analyzed By: AR
Prep Batch: 56093 Sample Preparation: 2009-11-30 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|-------|
| Sulfate | | 150 | mg/L | 5 | 0.500 |

Sample: 215843 - MW-1

Laboratory: Midland
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 65808 Date Analyzed: 2009-12-07 Analyzed By: AR
Prep Batch: 56115 Sample Preparation: 2009-12-01 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 9100 | mg/L | 100 | 10.0 |

Method Blank (1) QC Batch: 65660

QC Batch: 65660 Date Analyzed: 2009-12-01 Analyzed By: AR
Prep Batch: 56093 QC Preparation: 2009-11-30 Prepared By: AR

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| Chloride | | <0.475 | mg/L | 0.5 |

Method Blank (1) QC Batch: 65660

QC Batch: 65660 Date Analyzed: 2009-12-01 Analyzed By: AR
Prep Batch: 56093 QC Preparation: 2009-11-30 Prepared By: AR

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| Sulfate | | <0.217 | mg/L | 0.5 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|--------------|
| Trifluorotoluene (TFT) | 0.104 | 0.102 | mg/L | 1 | 0.100 | 104 | 102 | 76.2 - 119.6 |
| 4-Bromofluorobenzene (4-BFB) | 0.0938 | 0.0926 | mg/L | 1 | 0.100 | 94 | 93 | 77.9 - 109.8 |

Laboratory Control Spike (LCS-1)

QC Batch: 65745
Prep Batch: 56137

Date Analyzed: 2009-12-03
QC Preparation: 2009-12-02

Analyzed By: RR
Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------------------|------------|-------|------|--------------|---------------|------|------------|
| Dissolved Calcium | 51.9 | mg/L | 1 | 50.0 | <0.117 | 104 | 85 - 115 |
| Dissolved Potassium | 50.7 | mg/L | 1 | 50.0 | <0.172 | 101 | 85 - 115 |
| Dissolved Magnesium | 50.5 | mg/L | 1 | 50.0 | <0.160 | 101 | 85 - 115 |
| Dissolved Sodium | 51.1 | mg/L | 1 | 50.0 | <0.0500 | 102 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------------------|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Dissolved Calcium | 50.8 | mg/L | 1 | 50.0 | <0.117 | 102 | 85 - 115 | 2 | 20 |
| Dissolved Potassium | 50.0 | mg/L | 1 | 50.0 | <0.172 | 100 | 85 - 115 | 1 | 20 |
| Dissolved Magnesium | 49.7 | mg/L | 1 | 50.0 | <0.160 | 99 | 85 - 115 | 2 | 20 |
| Dissolved Sodium | 49.7 | mg/L | 1 | 50.0 | <0.0500 | 99 | 85 - 115 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 65808
Prep Batch: 56115

Date Analyzed: 2009-12-07
QC Preparation: 2009-12-01

Analyzed By: AR
Prepared By: AR

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|------------------------|------------|-------|------|--------------|---------------|------|------------|
| Total Dissolved Solids | 972 | mg/L | 1 | 1000 | <9.75 | 97 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|------------------------|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Total Dissolved Solids | 1010 | mg/L | 1 | 1000 | <9.75 | 101 | 90 - 110 | 4 | 10 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 215843

QC Batch: 65660 Date Analyzed: 2009-12-01 Analyzed By: AR
Prep Batch: 56093 QC Preparation: 2009-11-30 Prepared By: AR

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|-------------------|-------|------|--------------|---------------|------|------------|
| Chloride | ¹ 5330 | mg/L | 5 | 27.5 | 4690 | 2327 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|-------------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Chloride | ² 5320 | mg/L | 5 | 27.5 | 4690 | 2291 | 90 - 110 | 0 | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 215843

QC Batch: 65660 Date Analyzed: 2009-12-01 Analyzed By: AR
Prep Batch: 56093 QC Preparation: 2009-11-30 Prepared By: AR

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|------------------|-------|------|--------------|---------------|------|------------|
| Sulfate | ³ 254 | mg/L | 5 | 27.5 | 150 | 378 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|------------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Sulfate | ⁴ 256 | mg/L | 5 | 27.5 | 150 | 385 | 90 - 110 | 1 | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 215919

QC Batch: 65725 Date Analyzed: 2009-12-02 Analyzed By: tn
Prep Batch: 56178 QC Preparation: 2009-12-02 Prepared By: tn

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|-----------|-------|------|--------------|---------------|------|--------------|
| Benzene | 13.9 | mg/L | 50 | 5.00 | 8.779 | 102 | 77.3 - 117.4 |
| Toluene | 4.88 | mg/L | 50 | 5.00 | <0.0100 | 98 | 75 - 111.8 |
| Ethylbenzene | 5.23 | mg/L | 50 | 5.00 | 0.2906 | 99 | 78.8 - 106.6 |

continued ...

¹Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

²MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

³Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

⁴MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

matrix spikes continued ...

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------|-----------|-------|------|--------------|---------------|------|------------|
| Xylene | 14.5 | mg/L | 50 | 15.0 | <0.0450 | 97 | 68.9 - 114 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| Benzene | 13.6 | mg/L | 50 | 5.00 | 8.779 | 96 | 77.3 - 117.4 | 2 | 20 |
| Toluene | 4.72 | mg/L | 50 | 5.00 | <0.0100 | 94 | 75 - 111.8 | 3 | 20 |
| Ethylbenzene | 5.08 | mg/L | 50 | 5.00 | 0.2906 | 96 | 78.8 - 106.6 | 3 | 20 |
| Xylene | 14.1 | mg/L | 50 | 15.0 | <0.0450 | 94 | 68.9 - 114 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|--------------|
| Trifluorotoluene (TFT) | 5.43 | 5.26 | mg/L | 50 | 5 | 109 | 105 | 76.3 - 109.8 |
| 4-Bromofluorobenzene (4-BFB) | 4.74 | 4.63 | mg/L | 50 | 5 | 95 | 93 | 75.2 - 112.8 |

Matrix Spike (MS-1) Spiked Sample: 215149

QC Batch: 65745
Prep Batch: 56137

Date Analyzed: 2009-12-03
QC Preparation: 2009-12-02

Analyzed By: RR
Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------------------|-----------|-------|------|--------------|---------------|------|------------|
| Dissolved Calcium | 104 | mg/L | 1 | 50.0 | 54.7 | 99 | 75 - 125 |
| Dissolved Potassium | 53.0 | mg/L | 1 | 50.0 | 2.85 | 100 | 75 - 125 |
| Dissolved Magnesium | 88.0 | mg/L | 1 | 50.0 | 40 | 96 | 75 - 125 |
| Dissolved Sodium | 199 | mg/L | 1 | 50.0 | 150 | 98 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------------------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Dissolved Calcium | 102 | mg/L | 1 | 50.0 | 54.7 | 95 | 75 - 125 | 2 | 20 |
| Dissolved Potassium | 53.3 | mg/L | 1 | 50.0 | 2.85 | 101 | 75 - 125 | 1 | 20 |
| Dissolved Magnesium | 86.5 | mg/L | 1 | 50.0 | 40 | 93 | 75 - 125 | 2 | 20 |
| Dissolved Sodium | 194 | mg/L | 1 | 50.0 | 150 | 88 | 75 - 125 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1)

QC Batch: 65589

Date Analyzed: 2009-11-25

Analyzed By: AR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | mg/L | 0.100 | 0.0977 | 98 | 80 - 120 | 2009-12-02 |
| Toluene | | mg/L | 0.100 | 0.0975 | 98 | 80 - 120 | 2009-12-02 |
| Ethylbenzene | | mg/L | 0.100 | 0.0962 | 96 | 80 - 120 | 2009-12-02 |
| Xylene | | mg/L | 0.300 | 0.286 | 95 | 80 - 120 | 2009-12-02 |

Standard (ICV-1)

QC Batch: 65745

Date Analyzed: 2009-12-03

Analyzed By: RR

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Dissolved Calcium | | mg/L | 50.0 | 52.2 | 104 | 90 - 110 | 2009-12-03 |
| Dissolved Potassium | | mg/L | 50.0 | 51.2 | 102 | 90 - 110 | 2009-12-03 |
| Dissolved Magnesium | | mg/L | 50.0 | 52.4 | 105 | 90 - 110 | 2009-12-03 |
| Dissolved Sodium | | mg/L | 50.0 | 50.5 | 101 | 90 - 110 | 2009-12-03 |

Standard (CCV-1)

QC Batch: 65745

Date Analyzed: 2009-12-03

Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Dissolved Calcium | | mg/L | 50.0 | 52.4 | 105 | 90 - 110 | 2009-12-03 |
| Dissolved Potassium | | mg/L | 50.0 | 49.7 | 99 | 90 - 110 | 2009-12-03 |
| Dissolved Magnesium | | mg/L | 50.0 | 52.4 | 105 | 90 - 110 | 2009-12-03 |
| Dissolved Sodium | | mg/L | 50.0 | 50.5 | 101 | 90 - 110 | 2009-12-03 |

Order # 9112520

Analysis Request of Chain of Custody Record

PAGE: 1 OF 1



TETRA TECH

1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:

Celco

SITE MANAGER:

Jeff Kindley

PROJECT NO.:

115-6463130A

PROJECT NAME:

Celco / Tract 7
Chever Co. NA

LAB I.D. NUMBER

DATE

TIME

MATRIX

COMP

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HNO3

ICE

NONE

PRESERVATIVE METHOD

| | | | | | | | | | | | | | | | | |
|------------------------------------------------|-------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------|----------------------------------------------|------------------------------|---------------------------------------------------|----------------------------------------------------|-----------------------------------------|-----------------------------------------|----------------------------------------------|--------------------------------------|-------------------------------------------|-----------------------------------------|-------------------------------------------------------------------|
| <input checked="" type="checkbox"/> BTEX 8021B | <input type="checkbox"/> TPH 8015 MOD. TX1005 (Ext. to C35) | <input type="checkbox"/> PAH 8270 | <input type="checkbox"/> RCRA Metals Ag As Ba Cd Cr Pb Hg Se | <input type="checkbox"/> TCLP Metals Ag As Ba Cd Vr Pd Hg Se | <input type="checkbox"/> TCLP Volatiles | <input type="checkbox"/> TCLP Semi Volatiles | <input type="checkbox"/> RC1 | <input type="checkbox"/> GC-MS Vol. 8240/8260/824 | <input type="checkbox"/> GC-MS Semi. Vol. 8270/825 | <input type="checkbox"/> PCB's 8080/608 | <input type="checkbox"/> Pest. 8082/608 | <input checked="" type="checkbox"/> Chloride | <input type="checkbox"/> Gamma Spec. | <input type="checkbox"/> Alpha Beta (Air) | <input type="checkbox"/> PLM (Asbestos) | <input checked="" type="checkbox"/> Major Anions/Cations, pH, TDS |
| 4 | N | 3 | X | | | | | | | | | | | | | |

RELINQUISHED BY: (Signature) *[Signature]*

Date: 11/23/09
Time: 10:12

RECEIVED BY: (Signature) *[Signature]*

Date: 11/23/09
Time: 10:10

SAMPLED BY: (Print & Initial) *[Signature]*

Date: 11/23/09
Time: 09:00

RELINQUISHED BY: (Signature)

Date: _____
Time: _____

RECEIVED BY: (Signature)

Date: _____
Time: _____

SAMPLE SHIPPED BY: (Circle)
FEDEX BUS
 HAND DELIVERED UPS

AIRBILL #: _____
OTHER: _____

RELINQUISHED BY: (Signature)

Date: _____
Time: _____

RECEIVED BY: (Signature)

Date: _____
Time: _____

TETRA TECH CONTACT PERSON: *IR Jeff Kindley*

Results by: _____

RECEIVING LABORATORY: *Tetra*

ADDRESS: _____
CITY: *Midland* STATE: *TX* ZIP: _____
CONTACT: *Monika* PHONE: _____

RECEIVED BY: (Signature) *Court FOX*

(Intact) 5.6
DATE: 11-30-09 TIME: 9:00 AM U.S.

RUSH Charges Authorized: _____
Yes No

SAMPLE CONDITION WHEN RECEIVED:
3.2°C intact

REMARKS:
Midland - BTEX, Chloride, Anions, pH, TDS Subrock - Cations hardness

Please fill out all copies - Laboratory retains Yellow copy - Return Original copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

LS 27325356



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX **El Paso:** T104704221-08-TX **Midland:** T104704392-08-TX
LELAP-02003 LELAP-02002
Kansas E-10317

Analytical and Quality Control Report

Jeff Kindley
Tetra Tech
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: March 9, 2010

Work Order: 10022632



Project Location: Chavez County, NM
Project Name: Celero/Rock Queen #7 TB
Project Number: 115-6403130

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 223829 | MW-1 | water | 2010-02-25 | 16:40 | 2010-02-26 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 15 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael Abel

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project Celero/Rock Queen #7 TB were received by TraceAnalysis, Inc. on 2010-02-26 and assigned to work order 10022632. Samples for work order 10022632 were received intact without headspace and at a temperature of 2.6 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|---------------|------------|------------|---------------------|----------|---------------------|
| Alkalinity | SM 2320B | 58086 | 2010-03-01 at 08:24 | 67894 | 2010-03-01 at 15:26 |
| BTEX | S 8021B | 58101 | 2010-03-01 at 15:45 | 67911 | 2010-03-01 at 17:11 |
| Ca, Dissolved | S 6010B | 58109 | 2010-03-02 at 12:55 | 67940 | 2010-03-02 at 16:17 |
| Chloride (IC) | E 300.0 | 58087 | 2010-03-01 at 12:28 | 67932 | 2010-03-02 at 11:58 |
| Hardness | S 6010B | 58109 | 2010-03-02 at 12:55 | 67940 | 2010-03-02 at 16:17 |
| K, Dissolved | S 6010B | 58109 | 2010-03-02 at 12:55 | 67940 | 2010-03-02 at 16:17 |
| Mg, Dissolved | S 6010B | 58109 | 2010-03-02 at 12:55 | 67940 | 2010-03-02 at 16:17 |
| Na, Dissolved | S 6010B | 58109 | 2010-03-02 at 12:55 | 67940 | 2010-03-02 at 16:17 |
| pH | SM 4500-H+ | 58060 | 2010-02-26 at 16:00 | 67873 | 2010-02-26 at 17:15 |
| SO4 (IC) | E 300.0 | 58087 | 2010-03-01 at 12:28 | 67932 | 2010-03-02 at 11:58 |
| TDS | SM 2540C | 58134 | 2010-03-03 at 08:46 | 68076 | 2010-03-08 at 16:06 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10022632 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 223829 - MW-1

| | | |
|----------------------|--------------------------------|------------------|
| Laboratory: Midland | Analytical Method: SM 2320B | Prep Method: N/A |
| Analysis: Alkalinity | Date Analyzed: 2010-03-01 | Analyzed By: AR |
| QC Batch: 67894 | Sample Preparation: 2010-03-01 | Prepared By: AR |
| Prep Batch: 58086 | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|---------------|----------|------|
| Hydroxide Alkalinity | | <1.00 | mg/L as CaCo3 | 1 | 1.00 |
| Carbonate Alkalinity | | <1.00 | mg/L as CaCo3 | 1 | 1.00 |
| Bicarbonate Alkalinity | | 93.0 | mg/L as CaCo3 | 1 | 4.00 |
| Total Alkalinity | | 93.0 | mg/L as CaCo3 | 1 | 4.00 |

Sample: 223829 - MW-1

| | | |
|---------------------|--------------------------------|----------------------|
| Laboratory: Midland | Analytical Method: S 8021B | Prep Method: S 5030B |
| Analysis: BTEX | Date Analyzed: 2010-03-01 | Analyzed By: AG |
| QC Batch: 67911 | Sample Preparation: 2010-03-01 | Prepared By: AG |
| Prep Batch: 58101 | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.0983 | mg/L | 1 | 0.100 | 98 | 65.9 - 129.8 |
| 4-Bromofluorobenzene (4-BFB) | | 0.101 | mg/L | 1 | 0.100 | 101 | 51.1 - 118.8 |

Sample: 223829 - MW-1

| | | |
|---------------------|--------------------------------|----------------------|
| Laboratory: Lubbock | Analytical Method: S 6010B | Prep Method: S 3005A |
| Analysis: Cations | Date Analyzed: 2010-03-02 | Analyzed By: RR |
| QC Batch: 67940 | Sample Preparation: 2010-03-02 | Prepared By: KV |
| Prep Batch: 58109 | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-------------------|------|--------------|-------|----------|-------|
| Dissolved Calcium | | 8010 | mg/L | 1000 | 0.100 |

continued ...

sample 223829 continued ...

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---------------------|------|--------------|-------|----------|-------|
| Dissolved Potassium | | 80.0 | mg/L | 1 | 0.100 |
| Dissolved Magnesium | | 2250 | mg/L | 1000 | 0.100 |
| Dissolved Sodium | | 2860 | mg/L | 1000 | 0.100 |

Sample: 223829 - MW-1

| | | |
|-------------------------|--------------------------------|------------------|
| Laboratory: Midland | Analytical Method: E 300.0 | Prep Method: N/A |
| Analysis: Chloride (IC) | Date Analyzed: 2010-03-02 | Analyzed By: AR |
| QC Batch: 67932 | Sample Preparation: 2010-03-01 | Prepared By: AR |
| Prep Batch: 58087 | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|-------|
| Chloride | | 24000 | mg/L | 500 | 0.500 |

Sample: 223829 - MW-1

| | | |
|---------------------|--------------------------------|------------------|
| Laboratory: Lubbock | Analytical Method: S 6010B | Prep Method: N/A |
| Analysis: Hardness | Date Analyzed: 2010-03-02 | Analyzed By: RR |
| QC Batch: 67940 | Sample Preparation: 2010-03-02 | Prepared By: KV |
| Prep Batch: 58109 | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-------------------|------|--------------|---------------|----------|------|
| Hardness (by ICP) | | 29300 | mg eq CaCO3/L | 1 | 0.00 |

Sample: 223829 - MW-1

| | | |
|---------------------|--------------------------------|------------------|
| Laboratory: Midland | Analytical Method: SM 4500-H+ | Prep Method: N/A |
| Analysis: pH | Date Analyzed: 2010-02-26 | Analyzed By: AG |
| QC Batch: 67873 | Sample Preparation: 2010-02-26 | Prepared By: AG |
| Prep Batch: 58060 | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| pH | | 7.11 | s.u. | 1 | 0.00 |

Sample: 223829 - MW-1

| | | |
|---------------------|--------------------------------|------------------|
| Laboratory: Midland | Analytical Method: E 300.0 | Prep Method: N/A |
| Analysis: SO4 (IC) | Date Analyzed: 2010-03-02 | Analyzed By: AR |
| QC Batch: 67932 | Sample Preparation: 2010-03-01 | Prepared By: AR |
| Prep Batch: 58087 | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|-------|
| Sulfate | | 463 | mg/L | 50 | 0.500 |

Sample: 223829 - MW-1

| | | |
|---------------------|--------------------------------|------------------|
| Laboratory: Midland | Analytical Method: SM 2540C | Prep Method: N/A |
| Analysis: TDS | Date Analyzed: 2010-03-08 | Analyzed By: AR |
| QC Batch: 68076 | Sample Preparation: 2010-03-03 | Prepared By: AR |
| Prep Batch: 58134 | | |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 38300 | mg/L | 100 | 10.0 |

Method Blank (1) QC Batch: 67894

| | | |
|-------------------|----------------------------|-----------------|
| QC Batch: 67894 | Date Analyzed: 2010-03-01 | Analyzed By: AR |
| Prep Batch: 58086 | QC Preparation: 2010-03-01 | Prepared By: AR |

| Parameter | Flag | MDL Result | Units | RL |
|------------------------|------|---------------|---------------|----|
| Hydroxide Alkalinity | | <1.00 | mg/L as CaCo3 | 1 |
| Carbonate Alkalinity | | <1.00 | mg/L as CaCo3 | 1 |
| Bicarbonate Alkalinity | | <4.00 | mg/L as CaCo3 | 4 |
| Total Alkalinity | | <4.00 | mg/L as CaCo3 | 4 |

Method Blank (1) QC Batch: 67911

| | | |
|-------------------|----------------------------|-----------------|
| QC Batch: 67911 | Date Analyzed: 2010-03-01 | Analyzed By: AG |
| Prep Batch: 58101 | QC Preparation: 2010-03-01 | Prepared By: AG |

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-------|
| Benzene | | <0.000300 | mg/L | 0.001 |

continued ...

method blank continued ...

| Parameter | Flag | MDL Result | Units | RL |
|--------------|------|---------------|-------|-------|
| Toluene | | <0.000200 | mg/L | 0.001 |
| Ethylbenzene | | <0.000200 | mg/L | 0.001 |
| Xylene | | <0.000900 | mg/L | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.0991 | mg/L | 1 | 0.100 | 99 | 73.6 - 126.6 |
| 4-Bromofluorobenzene (4-BFB) | | 0.102 | mg/L | 1 | 0.100 | 102 | 62.6 - 117.5 |

Method Blank (1) QC Batch: 67932

QC Batch: 67932 Date Analyzed: 2010-03-02 Analyzed By: AR
Prep Batch: 58087 QC Preparation: 2010-03-01 Prepared By: AR

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| Chloride | | <0.475 | mg/L | 0.5 |

Method Blank (1) QC Batch: 67932

QC Batch: 67932 Date Analyzed: 2010-03-02 Analyzed By: AR
Prep Batch: 58087 QC Preparation: 2010-03-01 Prepared By: AR

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| Sulfate | | <0.217 | mg/L | 0.5 |

Method Blank (1) QC Batch: 67940

QC Batch: 67940 Date Analyzed: 2010-03-02 Analyzed By: RR
Prep Batch: 58109 QC Preparation: 2010-03-02 Prepared By: KV

| Parameter | Flag | MDL Result | Units | RL |
|---------------------|------|---------------|-------|-----|
| Dissolved Calcium | | <0.00216 | mg/L | 0.1 |
| Dissolved Potassium | | <0.00645 | mg/L | 0.1 |
| Dissolved Magnesium | | <0.00594 | mg/L | 0.1 |
| Dissolved Sodium | | <0.00548 | mg/L | 0.1 |

Report Date: March 9, 2010
115-6403130

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Method Blank (1) QC Batch: 68076

QC Batch: 68076 Date Analyzed: 2010-03-08 Analyzed By: AR
Prep Batch: 58134 QC Preparation: 2010-03-03 Prepared By: AR

| Parameter | Flag | MDL Result | Units | RL |
|------------------------|------|---------------|-------|----|
| Total Dissolved Solids | | <9.75 | mg/L | 10 |

Duplicates (1) Duplicated Sample: 223824

QC Batch: 67873 Date Analyzed: 2010-02-26 Analyzed By: AG
Prep Batch: 58060 QC Preparation: 2010-02-26 Prepared By: AG

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|-------|---------------------|------------------|-------|----------|-----|--------------|
| pH | 6.22 | 6.24 | s.u. | 1 | 0 | 1.5 |

Duplicates (1) Duplicated Sample: 223818

QC Batch: 67894 Date Analyzed: 2010-03-01 Analyzed By: AR
Prep Batch: 58086 QC Preparation: 2010-03-01 Prepared By: AR

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---------------------|------------------|---------------|----------|-----|--------------|
| Hydroxide Alkalinity | <1.00 | <1.00 | mg/L as CaCo3 | 1 | 0 | 20 |
| Carbonate Alkalinity | <1.00 | <1.00 | mg/L as CaCo3 | 1 | 0 | 20 |
| Bicarbonate Alkalinity | 192 | 194 | mg/L as CaCo3 | 1 | 1 | 20 |
| Total Alkalinity | 192 | 194 | mg/L as CaCo3 | 1 | 1 | 20 |

Duplicates (1) Duplicated Sample: 224053

QC Batch: 68076 Date Analyzed: 2010-03-08 Analyzed By: AR
Prep Batch: 58134 QC Preparation: 2010-03-03 Prepared By: AR

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---------------------|------------------|-------|----------|-----|--------------|
| Total Dissolved Solids | 2240 | 2310 | mg/L | 5 | 3 | 10 |

Laboratory Control Spike (LCS-1)

QC Batch: 67911 Date Analyzed: 2010-03-01 Analyzed By: AG
Prep Batch: 58101 QC Preparation: 2010-03-01 Prepared By: AG

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|------------|-------|------|--------------|---------------|------|--------------|
| Benzene | 0.0949 | mg/L | 1 | 0.100 | <0.000300 | 95 | 79.4 - 112.4 |
| Toluene | 0.0942 | mg/L | 1 | 0.100 | <0.000200 | 94 | 79.3 - 110 |
| Ethylbenzene | 0.0935 | mg/L | 1 | 0.100 | <0.000200 | 94 | 73.8 - 113.1 |
| Xylene | 0.282 | mg/L | 1 | 0.300 | <0.000900 | 94 | 73.9 - 113.6 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|-------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| Benzene | 0.0957 | mg/L | 1 | 0.100 | <0.000300 | 96 | 79.4 - 112.4 | 1 | 20 |
| Toluene | 0.0954 | mg/L | 1 | 0.100 | <0.000200 | 95 | 79.3 - 110 | 1 | 20 |
| Ethylbenzene | 0.0952 | mg/L | 1 | 0.100 | <0.000200 | 95 | 73.8 - 113.1 | 2 | 20 |
| Xylene | 0.287 | mg/L | 1 | 0.300 | <0.000900 | 96 | 73.9 - 113.6 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|--------------|
| Trifluorotoluene (TFT) | 0.0954 | 0.0943 | mg/L | 1 | 0.100 | 95 | 94 | 76.2 - 129.6 |
| 4-Bromofluorobenzene (4-BFB) | 0.112 | 0.111 | mg/L | 1 | 0.100 | 112 | 111 | 77.9 - 119.8 |

Laboratory Control Spike (LCS-1)

QC Batch: 67932
Prep Batch: 58087

Date Analyzed: 2010-03-02
QC Preparation: 2010-03-01

Analyzed By: AR
Prepared By: AR

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|------------|-------|------|--------------|---------------|------|------------|
| Chloride | 23.7 | mg/L | 1 | 25.0 | <0.475 | 95 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Chloride | 23.7 | mg/L | 1 | 25.0 | <0.475 | 95 | 90 - 110 | 0 | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 67932
Prep Batch: 58087

Date Analyzed: 2010-03-02
QC Preparation: 2010-03-01

Analyzed By: AR
Prepared By: AR

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|------------|-------|------|--------------|---------------|------|------------|
| Sulfate | 23.2 | mg/L | 1 | 25.0 | <0.217 | 93 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Sulfate | 23.1 | mg/L | 1 | 25.0 | <0.217 | 92 | 90 - 110 | 0 | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 67940
Prep Batch: 58109

Date Analyzed: 2010-03-02
QC Preparation: 2010-03-02

Analyzed By: RR
Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------------------|------------|-------|------|--------------|---------------|------|------------|
| Dissolved Calcium | 52.9 | mg/L | 1 | 50.0 | <0.00216 | 106 | 85 - 115 |
| Dissolved Potassium | 51.6 | mg/L | 1 | 50.0 | <0.00645 | 103 | 85 - 115 |
| Dissolved Magnesium | 53.9 | mg/L | 1 | 50.0 | <0.00594 | 108 | 85 - 115 |
| Dissolved Sodium | 50.6 | mg/L | 1 | 50.0 | <0.00548 | 101 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------------------|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Dissolved Calcium | 51.0 | mg/L | 1 | 50.0 | <0.00216 | 102 | 85 - 115 | 4 | 20 |
| Dissolved Potassium | 49.7 | mg/L | 1 | 50.0 | <0.00645 | 99 | 85 - 115 | 4 | 20 |
| Dissolved Magnesium | 51.5 | mg/L | 1 | 50.0 | <0.00594 | 103 | 85 - 115 | 5 | 20 |
| Dissolved Sodium | 49.0 | mg/L | 1 | 50.0 | <0.00548 | 98 | 85 - 115 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 68076
Prep Batch: 58134

Date Analyzed: 2010-03-08
QC Preparation: 2010-03-03

Analyzed By: AR
Prepared By: AR

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|------------------------|------------|-------|------|--------------|---------------|------|------------|
| Total Dissolved Solids | 1010 | mg/L | 1 | 1000 | <9.75 | 101 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|------------------------|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Total Dissolved Solids | 1010 | mg/L | 1 | 1000 | <9.75 | 101 | 90 - 110 | 0 | 10 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 223853

QC Batch: 67911
Prep Batch: 58101

Date Analyzed: 2010-03-01
QC Preparation: 2010-03-01

Analyzed By: AG
Prepared By: AG

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|-----------|-------|------|--------------|---------------|------|--------------|
| Benzene | 10.9 | mg/L | 50 | 5.00 | 5.9567 | 99 | 77.3 - 117.4 |
| Toluene | 6.30 | mg/L | 50 | 5.00 | 1.5038 | 96 | 75 - 111.8 |
| Ethylbenzene | 5.23 | mg/L | 50 | 5.00 | 0.5072 | 94 | 78.8 - 106.6 |
| Xylene | 14.6 | mg/L | 50 | 15.0 | 0.6358 | 93 | 68.9 - 114 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| Benzene | 10.6 | mg/L | 50 | 5.00 | 5.9567 | 93 | 77.3 - 117.4 | 3 | 20 |
| Toluene | 5.98 | mg/L | 50 | 5.00 | 1.5038 | 90 | 75 - 111.8 | 5 | 20 |
| Ethylbenzene | 4.79 | mg/L | 50 | 5.00 | 0.5072 | 86 | 78.8 - 106.6 | 9 | 20 |
| Xylene | 13.5 | mg/L | 50 | 15.0 | 0.6358 | 86 | 68.9 - 114 | 8 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|--------------|
| Trifluorotoluene (TFT) | 4.41 | 4.27 | mg/L | 50 | 5 | 88 | 85 | 76.3 - 129.8 |
| 4-Bromofluorobenzene (4-BFB) | 5.17 | 4.98 | mg/L | 50 | 5 | 103 | 100 | 75.2 - 112.8 |

Matrix Spike (MS-1) Spiked Sample: 223829

QC Batch: 67932
Prep Batch: 58087

Date Analyzed: 2010-03-02
QC Preparation: 2010-03-01

Analyzed By: AR
Prepared By: AR

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|--------------------|-------|------|--------------|---------------|------|------------|
| Chloride | ¹ 27200 | mg/L | 50 | 1380 | 24013 | 232 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|--------------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Chloride | ² 27300 | mg/L | 50 | 1380 | 24013 | 239 | 90 - 110 | 0 | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

¹ Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

² MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

Matrix Spike (MS-1) Spiked Sample: 223829

QC Batch: 67932 Date Analyzed: 2010-03-02 Analyzed By: AR
Prep Batch: 58087 QC Preparation: 2010-03-01 Prepared By: AR

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|-------------------|-------|------|--------------|---------------|------|------------|
| Sulfate | ³ 1500 | mg/L | 50 | 1380 | 463 | 75 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|-------------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Sulfate | ⁴ 1590 | mg/L | 50 | 1380 | 463 | 82 | 90 - 110 | 6 | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 223817

QC Batch: 67940 Date Analyzed: 2010-03-02 Analyzed By: RR
Prep Batch: 58109 QC Preparation: 2010-03-02 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------------------|-----------|-------|------|--------------|---------------|------|------------|
| Dissolved Calcium | 366 | mg/L | 1 | 50.0 | 306 | 120 | 75 - 125 |
| Dissolved Potassium | 72.6 | mg/L | 1 | 50.0 | 20.6 | 104 | 75 - 125 |
| Dissolved Magnesium | 117 | mg/L | 1 | 50.0 | 71 | 92 | 75 - 125 |
| Dissolved Sodium | 485 | mg/L | 1 | 50.0 | 439 | 92 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------------------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Dissolved Calcium | 356 | mg/L | 1 | 50.0 | 306 | 100 | 75 - 125 | 3 | 20 |
| Dissolved Potassium | 75.6 | mg/L | 1 | 50.0 | 20.6 | 110 | 75 - 125 | 4 | 20 |
| Dissolved Magnesium | 120 | mg/L | 1 | 50.0 | 71 | 98 | 75 - 125 | 2 | 20 |
| Dissolved Sodium | 486 | mg/L | 1 | 50.0 | 439 | 94 | 75 - 125 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1)

QC Batch: 67873 Date Analyzed: 2010-02-26 Analyzed By: AG

³Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

⁴MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

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Chavez County, NM

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| pH | | s.u. | 7.00 | 6.99 | 100 | 98 - 102 | 2010-02-26 |

Standard (CCV-1)

QC Batch: 67873

Date Analyzed: 2010-02-26

Analyzed By: AG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| pH | | s.u. | 7.00 | 6.93 | 99 | 98 - 102 | 2010-02-26 |

Standard (ICV-1)

QC Batch: 67894

Date Analyzed: 2010-03-01

Analyzed By: AR

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|------------------------|------|---------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Hydroxide Alkalinity | | mg/L as CaCo3 | 0.00 | 17.0 | | 0 - 200 | 2010-03-01 |
| Carbonate Alkalinity | | mg/L as CaCo3 | 0.00 | 244 | | 0 - 200 | 2010-03-01 |
| Bicarbonate Alkalinity | | mg/L as CaCo3 | 0.00 | <4.00 | | 0 - 200 | 2010-03-01 |
| Total Alkalinity | | mg/L as CaCo3 | 250 | 261 | 104 | 90 - 110 | 2010-03-01 |

Standard (CCV-1)

QC Batch: 67894

Date Analyzed: 2010-03-01

Analyzed By: AR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|------------------------|------|---------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Hydroxide Alkalinity | | mg/L as CaCo3 | 0.00 | 29.0 | | 0 - 200 | 2010-03-01 |
| Carbonate Alkalinity | | mg/L as CaCo3 | 0.00 | 224 | | 0 - 200 | 2010-03-01 |
| Bicarbonate Alkalinity | | mg/L as CaCo3 | 0.00 | <4.00 | | 0 - 200 | 2010-03-01 |
| Total Alkalinity | | mg/L as CaCo3 | 250 | 253 | 101 | 90 - 110 | 2010-03-01 |

Standard (CCV-1)

QC Batch: 67911

Date Analyzed: 2010-03-01

Analyzed By: AG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | mg/L | 25.0 | 23.0 | 92 | 90 - 110 | 2010-03-02 |

Standard (CCV-1)

QC Batch: 67932

Date Analyzed: 2010-03-02

Analyzed By: AR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | mg/L | 25.0 | 24.9 | 100 | 90 - 110 | 2010-03-02 |

Standard (ICV-1)

QC Batch: 67940

Date Analyzed: 2010-03-02

Analyzed By: RR

| Param | Flag | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Dissolved Calcium | | mg/L | 50.0 | 51.3 | 103 | 90 - 110 | 2010-03-02 |
| Dissolved Potassium | | mg/L | 50.0 | 50.3 | 101 | 90 - 110 | 2010-03-02 |
| Dissolved Magnesium | | mg/L | 50.0 | 51.6 | 103 | 90 - 110 | 2010-03-02 |
| Dissolved Sodium | | mg/L | 50.0 | 49.8 | 100 | 90 - 110 | 2010-03-02 |

Standard (CCV-1)

QC Batch: 67940

Date Analyzed: 2010-03-02

Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Dissolved Calcium | | mg/L | 51.0 | 50.5 | 99 | 90 - 110 | 2010-03-02 |
| Dissolved Potassium | | mg/L | 55.0 | 55.3 | 100 | 90 - 110 | 2010-03-02 |
| Dissolved Magnesium | | mg/L | 51.0 | 50.6 | 99 | 90 - 110 | 2010-03-02 |
| Dissolved Sodium | | mg/L | 51.0 | 51.2 | 100 | 90 - 110 | 2010-03-02 |

Order #: 10022632

Analysis Request of Chain of Custody Record

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TETRA TECH

1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:
Celero Energy

SITE MANAGER:
Jeff Kindly

PROJECT NO.:
115-6403130

PROJECT NAME:
Celero Energy / Rock Queen # 7 T13
Chute 7 Co, NM

LAB I.D. NUMBER

DATE
2/25

TIME
1640

MATRIX
W

COMP.
X

GRAB

MW-1

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS
FILTERED (Y/N)
HCL
HNO3
ICE
NONE

4 N 3 X 1

| | | | | | | | | | | | | | | | | |
|------------------------------------------------|------------------------------------|----------|-------------------------------------|-------------------------------------|----------------|---------------------|-----|--------------------------|---------------------------|----------------|---------------|----------|-------------|------------------|----------------|-------------------------------|
| <input checked="" type="checkbox"/> BTEX 8021B | TPH 8015 MOD. TX1005 (Ext. to C35) | PAH 8270 | RCRA Metals Ag As Ba Cd Cr Pb Hg Se | TCLP Metals Ag As Ba Cd Vr Pd Hg Se | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC-MS Vol. 8240/8260/624 | GC-MS Semi. Vol. 8270/625 | PCB's 8080/608 | Pest. 808/608 | Chloride | Gamma Spec. | Alpha Beta (Air) | PLM (Asbestos) | Major Anions/Cations, pH, TDS |
| <i>X</i> | | | | | | | | | | | | | | | | <i>X</i> |

RELINQUISHED BY: (Signature) *[Signature]* Date: *2/26/10* Time: *15:00*

RELINQUISHED BY: (Signature) *[Signature]* Date: *2/26/10* Time: *17:00*

RELINQUISHED BY: (Signature) _____ Date: _____ Time: _____

RECEIVED BY: (Signature) *[Signature]* Date: *2/26/10* Time: *15:00*

RECEIVED BY: (Signature) *Kimberly Baldwin* Date: *2/27/10* Time: *10:10*

RECEIVED BY: (Signature) _____ Date: _____ Time: _____

SAMPLED BY: (Print & Initial) *JT/TH* Date: *2/25/10* Time: _____

SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL #: _____ HAND DELIVERED UPS OTHER: _____

TETRA TECH CONTACT PERSON: *Jeff Kindly* Results by: _____

RECEIVING LABORATORY: *Tetra* RECEIVED BY: (Signature) _____

ADDRESS: _____ CITY: *Midland* STATE: *TX* ZIP: _____

CONTACT: _____ PHONE: _____ DATE: _____ TIME: _____

SAMPLE CONDITION WHEN RECEIVED:
26 c intact

REMARKS:
Midland - BTEX pH, TDS, Anions Subba - Cations hardness

Please fill out all copies - Laboratory retains Yellow copy - Return Original copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

Lone Star 76030145 5.2°C



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 6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
 E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX **El Paso:** T104704221-08-TX **Midland:** T104704392-08-TX
 LELAP-02003 LELAP-02002
 Kansas E-10317

Analytical and Quality Control Report

Jeff Kindley
 Tetra Tech
 1910 N. Big Spring Street
 Midland, TX, 79705

Report Date: July 27, 2010

Work Order: 10071412



Project Location: Chavez County, NM
 Project Name: Celero/Rock Queen #7 TB
 Project Number: 115-6403130

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 237456 | MW-1 | water | 2010-07-13 | 13:45 | 2010-07-14 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael Abel

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project Celero/Rock Queen #7 TB were received by TraceAnalysis, Inc. on 2010-07-14 and assigned to work order 10071412. Samples for work order 10071412 were received intact without headspace and at a temperature of 3.9 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|---------------|----------|------------|---------------------|----------|---------------------|
| BTEX | S 8021B | 61451 | 2010-07-14 at 16:00 | 71724 | 2010-07-14 at 16:42 |
| Chloride (IC) | E 300.0 | 61482 | 2010-07-15 at 09:54 | 71929 | 2010-07-16 at 03:27 |
| SO4 (IC) | E 300.0 | 61482 | 2010-07-15 at 09:54 | 71929 | 2010-07-16 at 03:27 |
| TDS | SM 2540C | 61516 | 2010-07-15 at 10:29 | 72039 | 2010-07-26 at 12:30 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10071412 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 237456 - MW-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 71724
Prep Batch: 61451

Analytical Method: S 8021B
Date Analyzed: 2010-07-14
Sample Preparation: 2010-07-14

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.104 | mg/L | 1 | 0.100 | 104 | 67.8 - 126 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0877 | mg/L | 1 | 0.100 | 88 | 51.1 - 128 |

Sample: 237456 - MW-1

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 71929
Prep Batch: 61482

Analytical Method: E 300.0
Date Analyzed: 2010-07-16
Sample Preparation: 2010-07-15

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 3060 | mg/L | 500 | 2.50 |

Sample: 237456 - MW-1

Laboratory: Midland
Analysis: SO4 (IC)
QC Batch: 71929
Prep Batch: 61482

Analytical Method: E 300.0
Date Analyzed: 2010-07-16
Sample Preparation: 2010-07-15

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | 316 | mg/L | 50 | 2.50 |

Sample: 237456 - MW-1

Laboratory: Midland
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 72039 Date Analyzed: 2010-07-26 Analyzed By: AR
 Prep Batch: 61516 Sample Preparation: 2010-07-16 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 5910 | mg/L | 5 | 10.0 |

Method Blank (1) QC Batch: 71724

QC Batch: 71724 Date Analyzed: 2010-07-14 Analyzed By: AG
 Prep Batch: 61451 QC Preparation: 2010-07-14 Prepared By: AG

| Parameter | Flag | MDL Result | Units | RL |
|--------------|------|---------------|-------|-------|
| Benzene | | <0.000600 | mg/L | 0.001 |
| Toluene | | <0.000600 | mg/L | 0.001 |
| Ethylbenzene | | <0.000800 | mg/L | 0.001 |
| Xylene | | <0.000767 | mg/L | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.0973 | mg/L | 1 | 0.100 | 97 | 70.2 - 118 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0848 | mg/L | 1 | 0.100 | 85 | 47.3 - 116 |

Method Blank (1) QC Batch: 71929

QC Batch: 71929 Date Analyzed: 2010-07-16 Analyzed By: AR
 Prep Batch: 61482 QC Preparation: 2010-07-15 Prepared By: AR

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| Chloride | | 0.462 | mg/L | 2.5 |

Method Blank (1) QC Batch: 71929

QC Batch: 71929 Date Analyzed: 2010-07-16 Analyzed By: AR
 Prep Batch: 61482 QC Preparation: 2010-07-15 Prepared By: AR



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NELAP Certifications

Lubbock: T104704219-08-TX **El Paso:** T104704221-08-TX **Midland:** T104704392-08-TX
 LELAP-02003 LELAP-02002
 Kansas E-10317

Analytical and Quality Control Report

Jeff Kindley
 Tetra Tech
 1910 N. Big Spring Street
 Midland, TX, 79705

Report Date: November 10, 2010

Work Order: 10101414



Project Location: Chavez County, NM
 Project Name: Celero/Rock Queen #7 TB
 Project Number: 115-6403130

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 247533 | MW-1 | water | 2010-10-13 | 09:15 | 2010-10-13 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael Abel

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project Celero/Rock Queen #7 TB were received by TraceAnalysis, Inc. on 2010-10-13 and assigned to work order 10101414. Samples for work order 10101414 were received intact without headspace and at a temperature of 3.5 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|---------------|----------|------------|---------------------|----------|---------------------|
| BTEX | S 8021B | 63840 | 2010-10-14 at 13:40 | 74557 | 2010-10-14 at 18:04 |
| Chloride (IC) | E 300.0 | 64403 | 2010-11-03 at 10:35 | 75072 | 2010-11-03 at 20:21 |
| SO4 (IC) | E 300.0 | 64531 | 2010-11-09 at 10:50 | 75231 | 2010-11-09 at 22:48 |
| TDS | SM 2540C | 63873 | 2010-10-15 at 10:25 | 74622 | 2010-10-21 at 14:52 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10101414 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 247533 - MW-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 74557
Prep Batch: 63840

Analytical Method: S 8021B
Date Analyzed: 2010-10-14
Sample Preparation: 2010-10-14

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.0886 | mg/L | 1 | 0.100 | 89 | 66.2 - 107 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0727 | mg/L | 1 | 0.100 | 73 | 39 - 138 |

Sample: 247533 - MW-1

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 75072
Prep Batch: 64403

Analytical Method: E 300.0
Date Analyzed: 2010-11-03
Sample Preparation: 2010-11-03

Prep Method: N/A
Analyzed By: PG
Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 20000 | mg/L | 1000 | 2.50 |

Sample: 247533 - MW-1

Laboratory: Lubbock
Analysis: SO4 (IC)
QC Batch: 75231
Prep Batch: 64531

Analytical Method: E 300.0
Date Analyzed: 2010-11-09
Sample Preparation: 2010-11-09

Prep Method: N/A
Analyzed By: PG
Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | 960 | mg/L | 50 | 2.50 |

Sample: 247533 - MW-1

Laboratory: Midland
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 74622 Date Analyzed: 2010-10-21 Analyzed By: AR
 Prep Batch: 63873 Sample Preparation: 2010-10-15 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 48400 | mg/L | 100 | 10.0 |

Method Blank (1) QC Batch: 74557

QC Batch: 74557 Date Analyzed: 2010-10-14 Analyzed By: AG
 Prep Batch: 63840 QC Preparation: 2010-10-14 Prepared By: AG

| Parameter | Flag | MDL Result | Units | RL |
|--------------|------|---------------|-------|-------|
| Benzene | | <0.000400 | mg/L | 0.001 |
| Toluene | | <0.000800 | mg/L | 0.001 |
| Ethylbenzene | | <0.000400 | mg/L | 0.001 |
| Xylene | | <0.000400 | mg/L | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.0893 | mg/L | 1 | 0.100 | 89 | 61.8 - 106 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0784 | mg/L | 1 | 0.100 | 78 | 48.5 - 129 |

Method Blank (1) QC Batch: 74622

QC Batch: 74622 Date Analyzed: 2010-10-21 Analyzed By: AR
 Prep Batch: 63873 QC Preparation: 2010-10-15 Prepared By: AR

| Parameter | Flag | MDL Result | Units | RL |
|------------------------|------|---------------|-------|----|
| Total Dissolved Solids | | 11.0 | mg/L | 10 |

Method Blank (1) QC Batch: 75072

QC Batch: 75072 Date Analyzed: 2010-11-03 Analyzed By: PG
 Prep Batch: 64403 QC Preparation: 2010-11-03 Prepared By: PG

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Sulfate | 23.9 | mg/L | 1 | 25.0 | <0.596 | 96 | 90 - 110 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 247532

QC Batch: 74557 Date Analyzed: 2010-10-14 Analyzed By: AG
Prep Batch: 63840 QC Preparation: 2010-10-14 Prepared By: AG

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|-----------|-------|------|--------------|---------------|------|------------|
| Benzene | 0.107 | mg/L | 1 | 0.100 | 0.0048 | 102 | 60.9 - 132 |
| Toluene | 0.0929 | mg/L | 1 | 0.100 | <0.000800 | 93 | 65.7 - 129 |
| Ethylbenzene | 0.0881 | mg/L | 1 | 0.100 | <0.000400 | 88 | 51.5 - 134 |
| Xylene | 0.332 | mg/L | 1 | 0.300 | <0.000400 | 111 | 62.6 - 124 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---------------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene | ¹ 0.0817 | mg/L | 1 | 0.100 | 0.0048 | 77 | 60.9 - 132 | 27 | 20 |
| Toluene | ² 0.0712 | mg/L | 1 | 0.100 | <0.000800 | 71 | 65.7 - 129 | 26 | 20 |
| Ethylbenzene | ³ 0.0645 | mg/L | 1 | 0.100 | <0.000400 | 64 | 51.5 - 134 | 31 | 20 |
| Xylene | 0.283 | mg/L | 1 | 0.300 | <0.000400 | 94 | 62.6 - 124 | 16 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|----------------------|------------|-------|------|--------------|---------|----------|------------|
| Trifluorotoluene (TFT) | ^{4 5} 0.317 | 0.331 | mg/L | 1 | 0.1 | 317 | 331 | 75.1 - 117 |
| 4-Bromofluorobenzene (4-BFB) | 0.0577 | 0.0585 | mg/L | 1 | 0.1 | 58 | 58 | 31.3 - 143 |

Matrix Spike (MS-1) Spiked Sample: 248210

QC Batch: 75072 Date Analyzed: 2010-11-03 Analyzed By: PG
Prep Batch: 64403 QC Preparation: 2010-11-03 Prepared By: PG

continued ...

¹MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.
²MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.
³MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.
⁴High surrogate recovery due to peak interference.
⁵High surrogate recovery due to peak interference.



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NELAP Certifications

Lubbock: T104704219-08-TX **El Paso:** T104704221-08-TX **Midland:** T104704392-08-TX
 LELAP-02003 LELAP-02002
 Kansas E-10317

Analytical and Quality Control Report

Jeff Kindley
 Tetra Tech
 1910 N. Big Spring Street
 Midland, TX, 79705

Report Date: February 3, 2011

Work Order: 11012129



Project Location: Chavez County, NM
 Project Name: Celero/Rock Queen #7 TB
 Project Number: 115-6403130

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 255903 | MW-1 | water | 2011-01-20 | 18:19 | 2011-01-21 |
| 255904 | MW-2 | water | 2011-01-20 | 18:00 | 2011-01-21 |
| 255905 | MW-3 | water | 2011-01-20 | 18:12 | 2011-01-21 |
| 255906 | MW-4 | water | 2011-01-20 | 18:16 | 2011-01-21 |
| 255907 | Rinseate | water | 2011-01-20 | 16:45 | 2011-01-21 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 18 pages and shall not be reproduced except in its entirety, without written approval of

TraceAnalysis, Inc.

Michael Abel

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Samples for project Celero/Rock Queen #7 TB were received by TraceAnalysis, Inc. on 2011-01-21 and assigned to work order 11012129. Samples for work order 11012129 were received intact without headspace and at a temperature of 12.3 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|---------------|----------|------------|---------------------|----------|---------------------|
| BTEX | S 8021B | 66157 | 2011-01-24 at 11:00 | 77124 | 2011-01-24 at 13:17 |
| Chloride (IC) | E 300.0 | 66273 | 2011-01-30 at 10:00 | 77266 | 2011-01-30 at 17:14 |
| SO4 (IC) | E 300.0 | 66273 | 2011-01-30 at 10:00 | 77266 | 2011-01-30 at 17:14 |
| SO4 (IC) | E 300.0 | 66364 | 2011-02-01 at 10:33 | 77367 | 2011-02-01 at 12:49 |
| TDS | SM 2540C | 66128 | 2011-01-24 at 11:48 | 77161 | 2011-01-26 at 15:20 |
| TDS | SM 2540C | 66142 | 2011-01-24 at 11:30 | 77255 | 2011-01-31 at 10:09 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11012129 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 255903 - MW-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 77124
Prep Batch: 66157

Analytical Method: S 8021B
Date Analyzed: 2011-01-24
Sample Preparation: 2011-01-24

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.108 | mg/L | 1 | 0.100 | 108 | 67.8 - 126 |
| 4-Bromofluorobenzene (4-BFB) | | 0.100 | mg/L | 1 | 0.100 | 100 | 51.1 - 128 |

Sample: 255903 - MW-1

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 77266
Prep Batch: 66273

Analytical Method: E 300.0
Date Analyzed: 2011-01-30
Sample Preparation: 2011-01-30

Prep Method: N/A
Analyzed By: PG
Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 18200 | mg/L | 1000 | 2.50 |

Sample: 255903 - MW-1

Laboratory: Lubbock
Analysis: SO4 (IC)
QC Batch: 77266
Prep Batch: 66273

Analytical Method: E 300.0
Date Analyzed: 2011-01-30
Sample Preparation: 2011-01-30

Prep Method: N/A
Analyzed By: PG
Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | <2500 | mg/L | 1000 | 2.50 |

Sample: 255903 - MW-1

Laboratory: Midland
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 77161 Date Analyzed: 2011-01-26 Analyzed By: AR
 Prep Batch: 66128 Sample Preparation: 2011-01-24 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 38600 | mg/L | 100 | 10.0 |

Sample: 255904 - MW-2

Laboratory: Midland
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
 QC Batch: 77124 Date Analyzed: 2011-01-24 Analyzed By: AG
 Prep Batch: 66157 Sample Preparation: 2011-01-24 Prepared By: AG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.107 | mg/L | 1 | 0.100 | 107 | 67.8 - 126 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0992 | mg/L | 1 | 0.100 | 99 | 51.1 - 128 |

Sample: 255904 - MW-2

Laboratory: Lubbock
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 77266 Date Analyzed: 2011-01-30 Analyzed By: PG
 Prep Batch: 66273 Sample Preparation: 2011-01-30 Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 45100 | mg/L | 10000 | 2.50 |

Report Date: February 3, 2011
115-6403130

Work Order: 11012129
Celero/Rock Queen #7 TB

Page Number: 6 of 18
Chavez County, NM

Sample: 255904 - MW-2

Laboratory: Lubbock
Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 77367 Date Analyzed: 2011-02-01 Analyzed By: PG
Prep Batch: 66364 Sample Preparation: 2011-02-01 Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | 1250 | mg/L | 50 | 2.50 |

Sample: 255904 - MW-2

Laboratory: Midland
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 77161 Date Analyzed: 2011-01-26 Analyzed By: AR
Prep Batch: 66128 Sample Preparation: 2011-01-24 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 78200 | mg/L | 100 | 10.0 |

Sample: 255905 - MW-3

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 77124 Date Analyzed: 2011-01-24 Analyzed By: AG
Prep Batch: 66157 Sample Preparation: 2011-01-24 Prepared By: AG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.108 | mg/L | 1 | 0.100 | 108 | 67.8 - 126 |
| 4-Bromofluorobenzene (4-BFB) | | 0.101 | mg/L | 1 | 0.100 | 101 | 51.1 - 128 |

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Sample: 255905 - MW-3

Laboratory: Lubbock
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 77266 Date Analyzed: 2011-01-30 Analyzed By: PG
Prep Batch: 66273 Sample Preparation: 2011-01-30 Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 47500 | mg/L | 5000 | 2.50 |

Sample: 255905 - MW-3

Laboratory: Lubbock
Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 77367 Date Analyzed: 2011-02-01 Analyzed By: PG
Prep Batch: 66364 Sample Preparation: 2011-02-01 Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | 1750 | mg/L | 50 | 2.50 |

Sample: 255905 - MW-3

Laboratory: Midland
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 77161 Date Analyzed: 2011-01-26 Analyzed By: AR
Prep Batch: 66128 Sample Preparation: 2011-01-24 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 81800 | mg/L | 100 | 10.0 |

Sample: 255906 - MW-4

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 77124 Date Analyzed: 2011-01-24 Analyzed By: AG
Prep Batch: 66157 Sample Preparation: 2011-01-24 Prepared By: AG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|---------|
| Benzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |

continued ...

sample 255906 continued ...

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.114 | mg/L | 1 | 0.100 | 114 | 67.8 - 126 |
| 4-Bromofluorobenzene (4-BFB) | | 0.103 | mg/L | 1 | 0.100 | 103 | 51.1 - 128 |

Sample: 255906 - MW-4

Laboratory: Lubbock
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 77266 Date Analyzed: 2011-01-30 Analyzed By: PG
 Prep Batch: 66273 Sample Preparation: 2011-01-30 Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | 279 | mg/L | 50 | 2.50 |

Sample: 255906 - MW-4

Laboratory: Lubbock
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 77266 Date Analyzed: 2011-01-30 Analyzed By: PG
 Prep Batch: 66273 Sample Preparation: 2011-01-30 Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | <125 | mg/L | 50 | 2.50 |

Sample: 255906 - MW-4

Laboratory: Midland
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 77255 Date Analyzed: 2011-01-31 Analyzed By: AR
 Prep Batch: 66142 Sample Preparation: 2011-01-25 Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 792 | mg/L | 2 | 10.0 |

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Sample: 255907 - Rinseate

Laboratory: Midland
Analysis: BTEX
QC Batch: 77124
Prep Batch: 66157
Analytical Method: S 8021B
Date Analyzed: 2011-01-24
Sample Preparation: 2011-01-24
Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|--------------|------|--------------|-------|----------|---------|
| Benzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.108 | mg/L | 1 | 0.100 | 108 | 67.8 - 126 |
| 4-Bromofluorobenzene (4-BFB) | | 0.100 | mg/L | 1 | 0.100 | 100 | 51.1 - 128 |

Sample: 255907 - Rinseate

Laboratory: Lubbock
Analysis: Chloride (IC)
QC Batch: 77266
Prep Batch: 66273
Analytical Method: E 300.0
Date Analyzed: 2011-01-30
Sample Preparation: 2011-01-30
Prep Method: N/A
Analyzed By: PG
Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Chloride | | <12.5 | mg/L | 5 | 2.50 |

Sample: 255907 - Rinseate

Laboratory: Lubbock
Analysis: SO4 (IC)
QC Batch: 77266
Prep Batch: 66273
Analytical Method: E 300.0
Date Analyzed: 2011-01-30
Sample Preparation: 2011-01-30
Prep Method: N/A
Analyzed By: PG
Prepared By: PG

| Parameter | Flag | RL Result | Units | Dilution | RL |
|-----------|------|--------------|-------|----------|------|
| Sulfate | | <12.5 | mg/L | 5 | 2.50 |

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Sample: 255907 - Rinseate

Laboratory: Midland
Analysis: TDS
QC Batch: 77255
Prep Batch: 66142
Analytical Method: SM 2540C
Date Analyzed: 2011-01-31
Sample Preparation: 2011-01-25
Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | RL Result | Units | Dilution | RL |
|------------------------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 74.0 | mg/L | 1 | 10.0 |

Method Blank (1) QC Batch: 77124

QC Batch: 77124
Prep Batch: 66157
Date Analyzed: 2011-01-24
QC Preparation: 2011-01-24
Analyzed By: AG
Prepared By: AG

| Parameter | Flag | MDL Result | Units | RL |
|--------------|------|---------------|-------|-------|
| Benzene | | <0.000600 | mg/L | 0.001 |
| Toluene | | <0.000600 | mg/L | 0.001 |
| Ethylbenzene | | <0.000800 | mg/L | 0.001 |
| Xylene | | <0.000767 | mg/L | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 0.115 | mg/L | 1 | 0.100 | 115 | 70.2 - 118 |
| 4-Bromofluorobenzene (4-BFB) | | 0.111 | mg/L | 1 | 0.100 | 111 | 47.3 - 116 |

Method Blank (1) QC Batch: 77161

QC Batch: 77161
Prep Batch: 66128
Date Analyzed: 2011-01-26
QC Preparation: 2011-01-24
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | MDL Result | Units | RL |
|------------------------|------|---------------|-------|----|
| Total Dissolved Solids | | 10.0 | mg/L | 10 |

Method Blank (1) QC Batch: 77255

QC Batch: 77255
Prep Batch: 66142
Date Analyzed: 2011-01-31
QC Preparation: 2011-01-24
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | MDL Result | Units | RL |
|------------------------|------|---------------|-------|----|
| Total Dissolved Solids | | 10.0 | mg/L | 10 |

Method Blank (1) QC Batch: 77266

QC Batch: 77266 Date Analyzed: 2011-01-30 Analyzed By: PG
Prep Batch: 66273 QC Preparation: 2011-01-30 Prepared By: PG

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| Chloride | | <0.0142 | mg/L | 2.5 |

Method Blank (1) QC Batch: 77266

QC Batch: 77266 Date Analyzed: 2011-01-30 Analyzed By: PG
Prep Batch: 66273 QC Preparation: 2011-01-30 Prepared By: PG

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| Sulfate | | <0.126 | mg/L | 2.5 |

Method Blank (1) QC Batch: 77367

QC Batch: 77367 Date Analyzed: 2011-02-01 Analyzed By: PG
Prep Batch: 66364 QC Preparation: 2011-02-01 Prepared By: PG

| Parameter | Flag | MDL Result | Units | RL |
|-----------|------|---------------|-------|-----|
| Sulfate | | <0.126 | mg/L | 2.5 |

Duplicates (1) Duplicated Sample: 255905

QC Batch: 77161 Date Analyzed: 2011-01-26 Analyzed By: AR
Prep Batch: 66128 QC Preparation: 2011-01-24 Prepared By: AR

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---------------------|------------------|-------|----------|-----|--------------|
| Total Dissolved Solids | 81500 | 81800 | mg/L | 100 | 0 | 10 |

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Duplicates (1) Duplicated Sample: 255921

QC Batch: 77255 Date Analyzed: 2011-01-31 Analyzed By: AR
Prep Batch: 66142 QC Preparation: 2011-01-24 Prepared By: AR

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids | 147000 | 134000 | mg/L | 100 | 9 | 10 |

Laboratory Control Spike (LCS-1)

QC Batch: 77124 Date Analyzed: 2011-01-24 Analyzed By: AG
Prep Batch: 66157 QC Preparation: 2011-01-24 Prepared By: AG

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|------------|-------|------|--------------|---------------|------|------------|
| Benzene | 0.0885 | mg/L | 1 | 0.100 | <0.000600 | 88 | 82.9 - 118 |
| Toluene | 0.0989 | mg/L | 1 | 0.100 | <0.000600 | 99 | 82.7 - 117 |
| Ethylbenzene | 0.102 | mg/L | 1 | 0.100 | <0.000800 | 102 | 78.8 - 116 |
| Xylene | 0.308 | mg/L | 1 | 0.300 | <0.000767 | 103 | 79.3 - 116 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene | 0.0906 | mg/L | 1 | 0.100 | <0.000600 | 91 | 82.9 - 118 | 2 | 20 |
| Toluene | 0.102 | mg/L | 1 | 0.100 | <0.000600 | 102 | 82.7 - 117 | 3 | 20 |
| Ethylbenzene | 0.106 | mg/L | 1 | 0.100 | <0.000800 | 106 | 78.8 - 116 | 4 | 20 |
| Xylene | 0.320 | mg/L | 1 | 0.300 | <0.000767 | 107 | 79.3 - 116 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Trifluorotoluene (TFT) | 0.110 | 0.111 | mg/L | 1 | 0.100 | 110 | 111 | 67.3 - 113 |
| 4-Bromofluorobenzene (4-BFB) | 0.110 | 0.113 | mg/L | 1 | 0.100 | 110 | 113 | 68.2 - 134 |

Laboratory Control Spike (LCS-1)

QC Batch: 77161 Date Analyzed: 2011-01-26 Analyzed By: AR
Prep Batch: 66128 QC Preparation: 2011-01-24 Prepared By: AR

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|------------------------|------------|-------|------|--------------|---------------|------|------------|
| Total Dissolved Solids | 993 | mg/L | 1 | 1000 | <9.75 | 99 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---------------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene | ⁵ 0.0811 | mg/L | 1 | 0.100 | 0.0121 | 69 | 77.9 - 114 | 19 | 20 |
| Toluene | ⁶ 0.0774 | mg/L | 1 | 0.100 | 0.0066 | 71 | 78.3 - 111 | 20 | 20 |
| Ethylbenzene | ⁷ 0.0693 | mg/L | 1 | 0.100 | <0.000800 | 69 | 75.3 - 110 | 19 | 20 |
| Xylene | ⁸ 0.180 | mg/L | 1 | 0.300 | <0.000767 | 60 | 75.7 - 109 | 22 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|----------------------|------------|-------|------|--------------|---------|----------|------------|
| Trifluorotoluene (TFT) | ⁹ 0.0705 | 0.0437 | mg/L | 1 | 0.1 | 70 | 44 | 68.3 - 107 |
| 4-Bromofluorobenzene (4-BFB) | ¹⁰ 0.0736 | 0.0449 | mg/L | 1 | 0.1 | 74 | 45 | 60.1 - 135 |

Matrix Spike (MS-1) Spiked Sample: 256128

QC Batch: 77266 Date Analyzed: 2011-01-30 Analyzed By: PG
Prep Batch: 66273 QC Preparation: 2011-01-30 Prepared By: PG

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|-----------|-------|------|--------------|---------------|------|------------|
| Chloride | 121 | mg/L | 5 | 125 | 2.2 | 95 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Chloride | 120 | mg/L | 5 | 125 | 2.2 | 94 | 90 - 110 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 256128

QC Batch: 77266 Date Analyzed: 2011-01-30 Analyzed By: PG
Prep Batch: 66273 QC Preparation: 2011-01-30 Prepared By: PG

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|-----------|-------|------|--------------|---------------|------|------------|
| Sulfate | 123 | mg/L | 5 | 125 | <0.630 | 98 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

⁵ Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
⁶ Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
⁷ Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
⁸ Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
⁹ Surrogate out due to peak interference.
¹⁰ Surrogate out due to peak interference.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Sulfate | 122 | mg/L | 5 | 125 | <0.630 | 98 | 90 - 110 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 256245

QC Batch: 77367 Date Analyzed: 2011-02-01 Analyzed By: PG
Prep Batch: 66364 QC Preparation: 2011-02-01 Prepared By: PG

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|-----------|-------|------|--------------|---------------|------|------------|
| Sulfate | 13000 | mg/L | 500 | 12500 | <63.0 | 104 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Sulfate | 13000 | mg/L | 500 | 12500 | <63.0 | 104 | 90 - 110 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (CCV-1)

QC Batch: 77124 Date Analyzed: 2011-01-24 Analyzed By: AG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Benzene | | mg/L | 0.100 | 0.0910 | 91 | 80 - 120 | 2011-01-24 |
| Toluene | | mg/L | 0.100 | 0.102 | 102 | 80 - 120 | 2011-01-24 |
| Ethylbenzene | | mg/L | 0.100 | 0.108 | 108 | 80 - 120 | 2011-01-24 |
| Xylene | | mg/L | 0.300 | 0.325 | 108 | 80 - 120 | 2011-01-24 |

Standard (CCV-2)

QC Batch: 77124 Date Analyzed: 2011-01-24 Analyzed By: AG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Benzene | | mg/L | 0.100 | 0.0858 | 86 | 80 - 120 | 2011-01-24 |
| Toluene | | mg/L | 0.100 | 0.0989 | 99 | 80 - 120 | 2011-01-24 |
| Ethylbenzene | | mg/L | 0.100 | 0.103 | 103 | 80 - 120 | 2011-01-24 |
| Xylene | | mg/L | 0.300 | 0.308 | 103 | 80 - 120 | 2011-01-24 |

Standard (CCV-3)

QC Batch: 77124

Date Analyzed: 2011-01-24

Analyzed By: AG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Benzene | | mg/L | 0.100 | 0.0820 | 82 | 80 - 120 | 2011-01-24 |
| Toluene | | mg/L | 0.100 | 0.0952 | 95 | 80 - 120 | 2011-01-24 |
| Ethylbenzene | | mg/L | 0.100 | 0.0976 | 98 | 80 - 120 | 2011-01-24 |
| Xylene | | mg/L | 0.300 | 0.294 | 98 | 80 - 120 | 2011-01-24 |

Standard (CCV-1)

QC Batch: 77266

Date Analyzed: 2011-01-30

Analyzed By: PG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Chloride | | mg/L | 25.0 | 24.1 | 96 | 90 - 110 | 2011-01-30 |

Standard (CCV-1)

QC Batch: 77266

Date Analyzed: 2011-01-30

Analyzed By: PG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Sulfate | | mg/L | 25.0 | 24.7 | 99 | 90 - 110 | 2011-01-30 |

Standard (CCV-2)

QC Batch: 77266

Date Analyzed: 2011-01-30

Analyzed By: PG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Chloride | | mg/L | 25.0 | 24.0 | 96 | 90 - 110 | 2011-01-30 |

Standard (CCV-2)

QC Batch: 77266

Date Analyzed: 2011-01-30

Analyzed By: PG

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| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | mg/L | 25.0 | 24.5 | 98 | 90 - 110 | 2011-01-30 |

Standard (CCV-1)

QC Batch: 77367

Date Analyzed: 2011-02-01

Analyzed By: PG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | mg/L | 25.0 | 23.9 | 96 | 90 - 110 | 2011-02-01 |

Standard (CCV-2)

QC Batch: 77367

Date Analyzed: 2011-02-01

Analyzed By: PG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | mg/L | 25.0 | 24.1 | 96 | 90 - 110 | 2011-02-01 |



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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Jeff Kindley
Tetra Tech
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: April 27, 2011

Work Order: 11041526

Project Location: Chavez Co., NM
Project Name: Celero/Rock Queen Tract #7
Project Number: 115-6403130A

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 263892 | MW-1 | water | 2011-04-14 | 10:05 | 2011-04-15 |
| 263893 | MW-2 | water | 2011-04-14 | 10:15 | 2011-04-15 |
| 263894 | MW-3 | water | 2011-04-14 | 10:00 | 2011-04-15 |
| 263895 | MW-4 | water | 2011-04-14 | 10:25 | 2011-04-15 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 20 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

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Case Narrative

Samples for project Celero/Rock Queen Tract #7 were received by TraceAnalysis, Inc. on 2011-04-15 and assigned to work order 11041526. Samples for work order 11041526 were received intact without headspace and at a temperature of 0.6 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|---------------|----------|------------|---------------------|----------|---------------------|
| BTEX | S 8021B | 68257 | 2011-04-18 at 08:51 | 80419 | 2011-04-18 at 08:51 |
| Chloride (IC) | E 300.0 | 68430 | 2011-04-20 at 12:00 | 80628 | 2011-04-22 at 15:03 |
| Chloride (IC) | E 300.0 | 68436 | 2011-04-25 at 08:21 | 80663 | 2011-04-26 at 15:30 |
| SO4 (IC) | E 300.0 | 68430 | 2011-04-20 at 12:00 | 80628 | 2011-04-22 at 15:03 |
| SO4 (IC) | E 300.0 | 68436 | 2011-04-25 at 08:21 | 80663 | 2011-04-26 at 15:30 |
| TDS | SM 2540C | 68387 | 2011-04-20 at 11:51 | 80715 | 2011-04-26 at 13:47 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11041526 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 263892 - MW-1

Laboratory: Midland
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
 QC Batch: 80419 Date Analyzed: 2011-04-18 Analyzed By: ME
 Prep Batch: 68257 Sample Preparation: 2011-04-18 Prepared By: ME

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene | | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | 1 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 1 | 0.0981 | mg/L | 1 | 0.100 | 98 | 67.8 - 129 |
| 4-Bromofluorobenzene (4-BFB) | | 1 | 0.100 | mg/L | 1 | 0.100 | 100 | 51.1 - 128 |

Sample: 263892 - MW-1

Laboratory: Midland
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 80628 Date Analyzed: 2011-04-22 Analyzed By: AR
 Prep Batch: 68430 Sample Preparation: 2011-04-20 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | 1 | 20500 | mg/L | 1000 | 2.50 |

Sample: 263892 - MW-1

Laboratory: Midland
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 80628 Date Analyzed: 2011-04-22 Analyzed By: AR
 Prep Batch: 68430 Sample Preparation: 2011-04-20 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Sulfate | | 1 | 1020 | mg/L | 100 | 2.50 |

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Sample: 263892 - MW-1

Laboratory: Midland
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 80715 Date Analyzed: 2011-04-26 Analyzed By: AR
Prep Batch: 68387 Sample Preparation: 2011-04-20 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|------------------------|------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 1 | 32000 | mg/L | 100 | 10.0 |

Sample: 263893 - MW-2

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 80419 Date Analyzed: 2011-04-18 Analyzed By: ME
Prep Batch: 68257 Sample Preparation: 2011-04-18 Prepared By: ME

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene | | 1 | 0.00680 | mg/L | 1 | 0.00100 |
| Toluene | | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | 1 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 1 | 0.0903 | mg/L | 1 | 0.100 | 90 | 67.8 - 129 |
| 4-Bromofluorobenzene (4-BFB) | | 1 | 0.0980 | mg/L | 1 | 0.100 | 98 | 51.1 - 128 |

Sample: 263893 - MW-2

Laboratory: Midland
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 80628 Date Analyzed: 2011-04-22 Analyzed By: AR
Prep Batch: 68430 Sample Preparation: 2011-04-20 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | 1 | 19100 | mg/L | 1000 | 2.50 |

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Sample: 263893 - MW-2

Laboratory: Midland
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 80628 Date Analyzed: 2011-04-22 Analyzed By: AR
 Prep Batch: 68430 Sample Preparation: 2011-04-20 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Sulfate | | 1 | 1280 | mg/L | 100 | 2.50 |

Sample: 263893 - MW-2

Laboratory: Midland
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 80715 Date Analyzed: 2011-04-26 Analyzed By: AR
 Prep Batch: 68387 Sample Preparation: 2011-04-20 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|------------------------|------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 1 | 33000 | mg/L | 100 | 10.0 |

Sample: 263894 - MW-3

Laboratory: Midland
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
 QC Batch: 80419 Date Analyzed: 2011-04-18 Analyzed By: ME
 Prep Batch: 68257 Sample Preparation: 2011-04-18 Prepared By: ME

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene | | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | 1 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 1 | 0.0914 | mg/L | 1 | 0.100 | 91 | 67.8 - 129 |
| 4-Bromofluorobenzene (4-BFB) | | 1 | 0.0998 | mg/L | 1 | 0.100 | 100 | 51.1 - 128 |

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Sample: 263894 - MW-3

Laboratory: Midland
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 80628 Date Analyzed: 2011-04-22 Analyzed By: AR
Prep Batch: 68430 Sample Preparation: 2011-04-20 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | 1 | 25100 | mg/L | 500 | 2.50 |

Sample: 263894 - MW-3

Laboratory: Midland
Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 80628 Date Analyzed: 2011-04-22 Analyzed By: AR
Prep Batch: 68430 Sample Preparation: 2011-04-20 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Sulfate | | 1 | 1170 | mg/L | 50 | 2.50 |

Sample: 263894 - MW-3

Laboratory: Midland
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 80715 Date Analyzed: 2011-04-26 Analyzed By: AR
Prep Batch: 68387 Sample Preparation: 2011-04-20 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|------------------------|------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 1 | 41000 | mg/L | 100 | 10.0 |

Sample: 263895 - MW-4

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 80419 Date Analyzed: 2011-04-18 Analyzed By: ME
Prep Batch: 68257 Sample Preparation: 2011-04-18 Prepared By: ME

continued ...

sample 263895 continued ...

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|---------|
| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
| Benzene | | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | | 1 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 1 | 0.0952 | mg/L | 1 | 0.100 | 95 | 67.8 - 129 |
| 4-Bromofluorobenzene (4-BFB) | | 1 | 0.0967 | mg/L | 1 | 0.100 | 97 | 51.1 - 128 |

Sample: 263895 - MW-4

Laboratory: Midland
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 80663 Date Analyzed: 2011-04-26 Analyzed By: AR
 Prep Batch: 68436 Sample Preparation: 2011-04-25 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | 1 | 510 | mg/L | 50 | 2.50 |

Sample: 263895 - MW-4

Laboratory: Midland
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 80663 Date Analyzed: 2011-04-26 Analyzed By: AR
 Prep Batch: 68436 Sample Preparation: 2011-04-25 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Sulfate | | 1 | 80.5 | mg/L | 5 | 2.50 |

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Sample: 263895 - MW-4

Laboratory: Midland
Analysis: TDS
QC Batch: 80715
Prep Batch: 68387

Analytical Method: SM 2540C
Date Analyzed: 2011-04-26
Sample Preparation: 2011-04-20

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|------------------------|------|------|--------------|-------|----------|------|
| Total Dissolved Solids | | 1 | 3330 | mg/L | 5 | 10.0 |

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Method Blanks

Method Blank (1) QC Batch: 80419

QC Batch: 80419
Prep Batch: 68257

Date Analyzed: 2011-04-18
QC Preparation: 2011-04-18

Analyzed By: ME
Prepared By: ME

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|------|---------------|-------|-------|
| Benzene | | 1 | <0.000400 | mg/L | 0.001 |
| Toluene | | 1 | <0.000300 | mg/L | 0.001 |
| Ethylbenzene | | 1 | <0.000300 | mg/L | 0.001 |
| Xylene | | 1 | <0.000333 | mg/L | 0.001 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | 1 | 0.0911 | mg/L | 1 | 0.100 | 91 | 70.2 - 118 |
| 4-Bromofluorobenzene (4-BFB) | | 1 | 0.104 | mg/L | 1 | 0.100 | 104 | 47.3 - 116 |

Method Blank (1) QC Batch: 80628

QC Batch: 80628
Prep Batch: 68430

Date Analyzed: 2011-04-22
QC Preparation: 2011-04-20

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|-----|
| Chloride | | 1 | 0.593 | mg/L | 2.5 |

Method Blank (1) QC Batch: 80628

QC Batch: 80628
Prep Batch: 68430

Date Analyzed: 2011-04-22
QC Preparation: 2011-04-20

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|-----|
| Sulfate | | 1 | <0.177 | mg/L | 2.5 |

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Method Blank (1) QC Batch: 80663

QC Batch: 80663 Date Analyzed: 2011-04-26 Analyzed By: AR
Prep Batch: 68436 QC Preparation: 2011-04-25 Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|-----|
| Chloride | | 1 | 0.878 | mg/L | 2.5 |

Method Blank (1) QC Batch: 80663

QC Batch: 80663 Date Analyzed: 2011-04-26 Analyzed By: AR
Prep Batch: 68436 QC Preparation: 2011-04-25 Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|-----|
| Sulfate | | 1 | <0.177 | mg/L | 2.5 |

Method Blank (1) QC Batch: 80715

QC Batch: 80715 Date Analyzed: 2011-04-26 Analyzed By: AR
Prep Batch: 68387 QC Preparation: 2011-04-20 Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|------------------------|------|------|---------------|-------|----|
| Total Dissolved Solids | | 1 | <9.75 | mg/L | 10 |

Duplicates (1) Duplicated Sample: 263895

QC Batch: 80715 Date Analyzed: 2011-04-26 Analyzed By: AR
Prep Batch: 68387 QC Preparation: 2011-04-20 Prepared By: AR

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---------------------|------------------|-------|----------|-----|--------------|
| Total Dissolved Solids | 3480 | 3330 | mg/L | 5 | 4 | 10 |

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 80419
Prep Batch: 68257

Date Analyzed: 2011-04-18
QC Preparation: 2011-04-18

Analyzed By: ME
Prepared By: ME

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|------------|-------|------|--------------|---------------|------|------------|
| Benzene | | 1 | 0.0882 | mg/L | 1 | 0.100 | <0.000400 | 88 | 76.8 - 110 |
| Toluene | | 1 | 0.0944 | mg/L | 1 | 0.100 | <0.000300 | 94 | 81 - 108 |
| Ethylbenzene | | 1 | 0.0965 | mg/L | 1 | 0.100 | <0.000300 | 96 | 78.8 - 118 |
| Xylene | | 1 | 0.291 | mg/L | 1 | 0.300 | <0.000333 | 97 | 80.3 - 119 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|-------------|-------|------|--------------|---------------|------|------------|-----|-----------|
| Benzene | | 1 | 0.0948 | mg/L | 1 | 0.100 | <0.000400 | 95 | 76.8 - 110 | 7 | 20 |
| Toluene | | 1 | 0.102 | mg/L | 1 | 0.100 | <0.000300 | 102 | 81 - 108 | 8 | 20 |
| Ethylbenzene | | 1 | 0.104 | mg/L | 1 | 0.100 | <0.000300 | 104 | 78.8 - 118 | 8 | 20 |
| Xylene | | 1 | 0.314 | mg/L | 1 | 0.300 | <0.000333 | 105 | 80.3 - 119 | 8 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | F | C | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|---|---|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Trifluorotoluene (TFT) | | 1 | 0.0994 | 0.0964 | mg/L | 1 | 0.100 | 99 | 96 | 66.6 - 114 |
| 4-Bromofluorobenzene (4-BFB) | | 1 | 0.119 | 0.116 | mg/L | 1 | 0.100 | 119 | 116 | 68.2 - 124 |

Laboratory Control Spike (LCS-1)

QC Batch: 80628
Prep Batch: 68430

Date Analyzed: 2011-04-22
QC Preparation: 2011-04-20

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|------------|-------|------|--------------|---------------|------|------------|
| Chloride | | 1 | 24.6 | mg/L | 1 | 25.0 | <0.265 | 98 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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control spikes continued ...

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | 1 | 24.7 | mg/L | 1 | 25.0 | <0.265 | 99 | 90 - 110 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 80628
Prep Batch: 68430

Date Analyzed: 2011-04-22
QC Preparation: 2011-04-20

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | | 1 | 24.2 | mg/L | 1 | 25.0 | <0.177 | 97 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | | 1 | 24.2 | mg/L | 1 | 25.0 | <0.177 | 97 | 90 - 110 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 80663
Prep Batch: 68436

Date Analyzed: 2011-04-26
QC Preparation: 2011-04-25

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | 1 | 25.3 | mg/L | 1 | 25.0 | <0.265 | 101 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | 1 | 25.6 | mg/L | 1 | 25.0 | <0.265 | 102 | 90 - 110 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Laboratory Control Spike (LCS-1)

QC Batch: 80663
Prep Batch: 68436

Date Analyzed: 2011-04-26
QC Preparation: 2011-04-25

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | | 1 | 23.5 | mg/L | 1 | 25.0 | <0.177 | 94 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Limit | RPD | RPD Limit | |
|---------|---|---|----------------|-------|------|-----------------|------------------|---------------|----------|--------------|----|
| Sulfate | | 1 | 22.7 | mg/L | 1 | 25.0 | <0.177 | 91 | 90 - 110 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 80715
Prep Batch: 68387

Date Analyzed: 2011-04-26
QC Preparation: 2011-04-20

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids | | 1 | 966 | mg/L | 1 | 1000 | <9.75 | 97 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. Limit | RPD | RPD Limit | |
|------------------------|---|---|----------------|-------|------|-----------------|------------------|---------------|----------|--------------|----|
| Total Dissolved Solids | | 1 | 992 | mg/L | 1 | 1000 | <9.75 | 99 | 90 - 110 | 3 | 10 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 263891

QC Batch: 80628
Prep Batch: 68430

Date Analyzed: 2011-04-22
QC Preparation: 2011-04-20

Analyzed By: AR
Prepared By: AR

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | 1 | 3430 | mg/L | 100 | 2750 | 997 | 88 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | 1 | 3380 | mg/L | 100 | 2750 | 997 | 87 | 90 - 110 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 263891

QC Batch: 80628
Prep Batch: 68430

Date Analyzed: 2011-04-22
QC Preparation: 2011-04-20

Analyzed By: AR
Prepared By: AR

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | | 1 | 3830 | mg/L | 100 | 2750 | 1570 | 82 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | | 1 | 3800 | mg/L | 100 | 2750 | 1570 | 81 | 90 - 110 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 263897

QC Batch: 80663
Prep Batch: 68436

Date Analyzed: 2011-04-26
QC Preparation: 2011-04-25

Analyzed By: AR
Prepared By: AR

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | 1 | 1400 | mg/L | 50 | 1380 | 91.7 | 95 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | 1 | 1410 | mg/L | 50 | 1380 | 91.7 | 96 | 90 - 110 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 263897

QC Batch: 80663
Prep Batch: 68436

Date Analyzed: 2011-04-26
QC Preparation: 2011-04-25

Analyzed By: AR
Prepared By: AR

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| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | | 1 | 1200 | mg/L | 50 | 1380 | 32 | 85 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | | 1 | 1240 | mg/L | 50 | 1380 | 32 | 88 | 90 - 110 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Calibration Standards

Standard (CCV-2)

QC Batch: 80419

Date Analyzed: 2011-04-18

Analyzed By: ME

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/L | 0.100 | 0.0964 | 96 | 80 - 120 | 2011-04-18 |
| Toluene | | 1 | mg/L | 0.100 | 0.100 | 100 | 80 - 120 | 2011-04-18 |
| Ethylbenzene | | 1 | mg/L | 0.100 | 0.0997 | 100 | 80 - 120 | 2011-04-18 |
| Xylene | | 1 | mg/L | 0.300 | 0.298 | 99 | 80 - 120 | 2011-04-18 |

Standard (CCV-3)

QC Batch: 80419

Date Analyzed: 2011-04-18

Analyzed By: ME

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/L | 0.100 | 0.0957 | 96 | 80 - 120 | 2011-04-18 |
| Toluene | | 1 | mg/L | 0.100 | 0.0994 | 99 | 80 - 120 | 2011-04-18 |
| Ethylbenzene | | 1 | mg/L | 0.100 | 0.0987 | 99 | 80 - 120 | 2011-04-18 |
| Xylene | | 1 | mg/L | 0.300 | 0.294 | 98 | 80 - 120 | 2011-04-18 |

Standard (ICV-1)

QC Batch: 80628

Date Analyzed: 2011-04-22

Analyzed By: AR

| Param | Flag | Cert | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | 1 | mg/L | 25.0 | 24.1 | 96 | 90 - 110 | 2011-04-22 |

Standard (ICV-1)

QC Batch: 80628

Date Analyzed: 2011-04-22

Analyzed By: AR

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| Param | Flag | Cert | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | 1 | mg/L | 25.0 | 24.1 | 96 | 90 - 110 | 2011-04-22 |

Standard (CCV-1)

QC Batch: 80628

Date Analyzed: 2011-04-22

Analyzed By: AR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | 1 | mg/L | 25.0 | 24.1 | 96 | 90 - 110 | 2011-04-22 |

Standard (CCV-1)

QC Batch: 80628

Date Analyzed: 2011-04-22

Analyzed By: AR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | 1 | mg/L | 25.0 | 24.8 | 99 | 90 - 110 | 2011-04-22 |

Standard (ICV-1)

QC Batch: 80663

Date Analyzed: 2011-04-26

Analyzed By: AR

| Param | Flag | Cert | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | 1 | mg/L | 25.0 | 24.3 | 97 | 90 - 110 | 2011-04-26 |

Standard (ICV-1)

QC Batch: 80663

Date Analyzed: 2011-04-26

Analyzed By: AR

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| Param | Flag | Cert | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | 1 | mg/L | 25.0 | 25.0 | 100 | 90 - 110 | 2011-04-26 |

Standard (CCV-1)

QC Batch: 80663

Date Analyzed: 2011-04-26

Analyzed By: AR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | 1 | mg/L | 25.0 | 22.8 | 91 | 90 - 110 | 2011-04-26 |

Standard (CCV-1)

QC Batch: 80663

Date Analyzed: 2011-04-26

Analyzed By: AR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | 1 | mg/L | 25.0 | 22.8 | 91 | 90 - 110 | 2011-04-26 |

Appendix

Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - | DBE | VN 20657 | TraceAnalysis |
| - | HUB | 1752439743100-86536 | TraceAnalysis |
| - | WBE | 237019 | TraceAnalysis |
| 1 | NELAP | T104704392-10-TX | Midland |

Standard Flags

| F | Description |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B | Analyte detected in the corresponding method blank above the method detection limit |
| H | Analyzed out of hold time |
| J | Estimated concentration |
| Jb | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je | Estimated concentration exceeding calibration range. |
| Qc | Calibration check outside of laboratory limits. |
| Qr | RPD outside of laboratory limits |
| Qs | Spike recovery outside of laboratory limits. |
| Qsr | Surrogate recovery outside of laboratory limits. |
| U | The analyte is not detected above the SDL |

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.



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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Jeff Kindley
 Tetra Tech
 1910 N. Big Spring Street
 Midland, TX, 79705

Report Date: August 25, 2011

Work Order: 11080110



Project Location: Chavez Co., NM
 Project Name: Celero/Rock Queen #7 TB
 Project Number: 115-6403130

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 273243 | MW-1 | water | 2011-07-29 | 12:50 | 2011-07-29 |
| 273244 | MW-2 | water | 2011-07-29 | 12:30 | 2011-07-29 |
| 273245 | MW-3 | water | 2011-07-29 | 12:40 | 2011-07-29 |
| 273246 | MW-4 | water | 2011-07-29 | 13:00 | 2011-07-29 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 21 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director
 Dr. Michael Abel, Project Manager

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Case Narrative

Samples for project Celero/Rock Queen #7 TB were received by TraceAnalysis, Inc. on 2011-07-29 and assigned to work order 11080110. Samples for work order 11080110 were received intact without headspace and at a temperature of 10.8 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|---------------|----------|------------|---------------------|----------|---------------------|
| BTEX | S 8021B | 70958 | 2011-08-03 at 09:47 | 83538 | 2011-08-03 at 09:47 |
| Chloride (IC) | E 300.0 | 71007 | 2011-08-03 at 10:14 | 83606 | 2011-08-04 at 10:14 |
| Chloride (IC) | E 300.0 | 71505 | 2011-08-22 at 09:26 | 84218 | 2011-08-22 at 14:27 |
| SO4 (IC) | E 300.0 | 71007 | 2011-08-03 at 10:14 | 83606 | 2011-08-04 at 10:14 |
| SO4 (IC) | E 300.0 | 71505 | 2011-08-22 at 09:26 | 84218 | 2011-08-22 at 14:27 |
| TDS | SM 2540C | 71017 | 2011-08-05 at 12:42 | 83880 | 2011-08-15 at 15:06 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11080110 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

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115-6403130

Work Order: 11080110
Celero/Rock Queen #7 TB

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Analytical Report

Sample: 273243 - MW-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 83538
Prep Batch: 70958

Analytical Method: S 8021B
Date Analyzed: 2011-08-03
Sample Preparation: 2011-08-03

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 0.101 | mg/L | 1 | 0.100 | 101 | 79.1 - 127.2 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0972 | mg/L | 1 | 0.100 | 97 | 67.5 - 140.8 |

Sample: 273243 - MW-1

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 83606
Prep Batch: 71007

Analytical Method: E 300.0
Date Analyzed: 2011-08-04
Sample Preparation: 2011-08-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | 1 | 20500 | mg/L | 1000 | 2.50 |

Sample: 273243 - MW-1

Laboratory: Midland
Analysis: SO4 (IC)
QC Batch: 83606
Prep Batch: 71007

Analytical Method: E 300.0
Date Analyzed: 2011-08-04
Sample Preparation: 2011-08-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Sulfate | | 1 | 1170 | mg/L | 100 | 2.50 |

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Sample: 273243 - MW-1

Laboratory: Midland
Analysis: TDS
QC Batch: 83880
Prep Batch: 71017

Analytical Method: SM 2540C
Date Analyzed: 2011-08-15
Sample Preparation: 2011-08-08

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|------------------------|------|------|--------------|-------|----------|------|
| Total Dissolved Solids | H | 1 | 33700 | mg/L | 100 | 10.0 |

Sample: 273244 - MW-2

Laboratory: Midland
Analysis: BTEX
QC Batch: 83538
Prep Batch: 70958

Analytical Method: S 8021B
Date Analyzed: 2011-08-03
Sample Preparation: 2011-08-03

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene | | 1 | 0.00650 | mg/L | 1 | 0.00100 |
| Toluene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 0.0996 | mg/L | 1 | 0.100 | 100 | 79.1 - 127.2 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0948 | mg/L | 1 | 0.100 | 95 | 67.5 - 140.8 |

Sample: 273244 - MW-2

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 84218
Prep Batch: 71505

Analytical Method: E 300.0
Date Analyzed: 2011-08-22
Sample Preparation: 2011-08-22

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | 1 | 11700 | mg/L | 1000 | 2.50 |

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Sample: 273244 - MW-2

Laboratory: Midland
Analysis: SO4 (IC)
QC Batch: 84218
Prep Batch: 71505

Analytical Method: E 300.0
Date Analyzed: 2011-08-22
Sample Preparation: 2011-08-22

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Sulfate | | 1 | 1570 | mg/L | 100 | 2.50 |

Sample: 273244 - MW-2

Laboratory: Midland
Analysis: TDS
QC Batch: 83880
Prep Batch: 71017

Analytical Method: SM 2540C
Date Analyzed: 2011-08-15
Sample Preparation: 2011-08-08

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|------------------------|------|------|--------------|-------|----------|------|
| Total Dissolved Solids | H | 1 | 25900 | mg/L | 100 | 10.0 |

Sample: 273245 - MW-3

Laboratory: Midland
Analysis: BTEX
QC Batch: 83538
Prep Batch: 70958

Analytical Method: S 8021B
Date Analyzed: 2011-08-03
Sample Preparation: 2011-08-03

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 0.102 | mg/L | 1 | 0.100 | 102 | 79.1 - 127.2 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0977 | mg/L | 1 | 0.100 | 98 | 67.5 - 140.8 |

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Sample: 273245 - MW-3

Laboratory: Midland
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 84218 Date Analyzed: 2011-08-22 Analyzed By: AR
Prep Batch: 71505 Sample Preparation: 2011-08-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | 1 | 25100 | mg/L | 500 | 2.50 |

Sample: 273245 - MW-3

Laboratory: Midland
Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 84218 Date Analyzed: 2011-08-22 Analyzed By: AR
Prep Batch: 71505 Sample Preparation: 2011-08-22 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Sulfate | | 1 | 1420 | mg/L | 50 | 2.50 |

Sample: 273245 - MW-3

Laboratory: Midland
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 83880 Date Analyzed: 2011-08-15 Analyzed By: AR
Prep Batch: 71017 Sample Preparation: 2011-08-08 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|------------------------|------|------|--------------|-------|----------|------|
| Total Dissolved Solids | H | 1 | 52400 | mg/L | 100 | 10.0 |

Sample: 273246 - MW-4

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 83538 Date Analyzed: 2011-08-03 Analyzed By: ME
Prep Batch: 70958 Sample Preparation: 2011-08-03 Prepared By: ME

continued ...

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Celero/Rock Queen #7 TB

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sample 273246 continued ...

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|---------|
| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
| Benzene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | u | 1 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 0.106 | mg/L | 1 | 0.100 | 106 | 79.1 - 127.2 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0991 | mg/L | 1 | 0.100 | 99 | 67.5 - 140.8 |

Sample: 273246 - MW-4

Laboratory: Midland
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 83606 Date Analyzed: 2011-08-04 Analyzed By: AR
Prep Batch: 71007 Sample Preparation: 2011-08-03 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | | 1 | 127 | mg/L | 5 | 2.50 |

Sample: 273246 - MW-4

Laboratory: Midland
Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 83606 Date Analyzed: 2011-08-04 Analyzed By: AR
Prep Batch: 71007 Sample Preparation: 2011-08-03 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Sulfate | | 1 | 114 | mg/L | 5 | 2.50 |

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Sample: 273246 - MW-4

Laboratory: Midland
Analysis: TDS
QC Batch: 83880
Prep Batch: 71017

Analytical Method: SM 2540C
Date Analyzed: 2011-08-15
Sample Preparation: 2011-08-08

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|------------------------|------|------|--------------|-------|----------|------|
| Total Dissolved Solids | H | 1 | 648 | mg/L | 2 | 10.0 |

Method Blanks

Method Blank (1) QC Batch: 83538

QC Batch: 83538
Prep Batch: 70958

Date Analyzed: 2011-08-03
QC Preparation: 2011-08-03

Analyzed By: ME
Prepared By: ME

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|------|---------------|-------|-------|
| Benzene | | 1 | <0.000400 | mg/L | 0.001 |
| Toluene | | 1 | <0.000300 | mg/L | 0.001 |
| Ethylbenzene | | 1 | <0.000300 | mg/L | 0.001 |
| Xylene | | 1 | <0.000333 | mg/L | 0.001 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 0.103 | mg/L | 1 | 0.100 | 103 | 61.1 - 118.4 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0946 | mg/L | 1 | 0.100 | 95 | 45.9 - 126.4 |

Method Blank (1) QC Batch: 83606

QC Batch: 83606
Prep Batch: 71007

Date Analyzed: 2011-08-04
QC Preparation: 2011-08-03

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|-----|
| Chloride | | 1 | 2.99 | mg/L | 2.5 |

Method Blank (1) QC Batch: 83606

QC Batch: 83606
Prep Batch: 71007

Date Analyzed: 2011-08-04
QC Preparation: 2011-08-03

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|-----|
| Sulfate | | 1 | <0.177 | mg/L | 2.5 |

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Method Blank (1) QC Batch: 83880

QC Batch: 83880 Date Analyzed: 2011-08-15 Analyzed By: AR
Prep Batch: 71017 QC Preparation: 2011-08-05 Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|------------------------|------|------|---------------|-------|----|
| Total Dissolved Solids | | 1 | <9.75 | mg/L | 10 |

Method Blank (1) QC Batch: 84218

QC Batch: 84218 Date Analyzed: 2011-08-22 Analyzed By: AR
Prep Batch: 71505 QC Preparation: 2011-08-22 Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|-----|
| Chloride | | 1 | <0.265 | mg/L | 2.5 |

Method Blank (1) QC Batch: 84218

QC Batch: 84218 Date Analyzed: 2011-08-22 Analyzed By: AR
Prep Batch: 71505 QC Preparation: 2011-08-22 Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|-----|
| Sulfate | | 1 | <0.177 | mg/L | 2.5 |

Duplicates (1) Duplicated Sample: 273246

QC Batch: 83880 Date Analyzed: 2011-08-15 Analyzed By: AR
Prep Batch: 71017 QC Preparation: 2011-08-05 Prepared By: AR

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit | |
|------------------------|---------------------|------------------|-------|----------|-----|--------------|----|
| Total Dissolved Solids | 1 | 614 | 648 | mg/L | 2 | 5 | 10 |

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 83538
Prep Batch: 70958

Date Analyzed: 2011-08-03
QC Preparation: 2011-08-03

Analyzed By: ME
Prepared By: ME

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | | 1 | 0.101 | mg/L | 1 | 0.100 | <0.000400 | 101 | 76.8 - 110.3 |
| Toluene | | 1 | 0.0979 | mg/L | 1 | 0.100 | <0.000300 | 98 | 90.9 - 122.2 |
| Ethylbenzene | | 1 | 0.0919 | mg/L | 1 | 0.100 | <0.000300 | 92 | 72.7 - 120.2 |
| Xylene | | 1 | 0.276 | mg/L | 1 | 0.300 | <0.000333 | 92 | 72.1 - 121.5 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | | 1 | 0.103 | mg/L | 1 | 0.100 | <0.000400 | 103 | 76.8 - 110.3 | 2 | 20 |
| Toluene | | 1 | 0.0996 | mg/L | 1 | 0.100 | <0.000300 | 100 | 90.9 - 122.2 | 2 | 20 |
| Ethylbenzene | | 1 | 0.0942 | mg/L | 1 | 0.100 | <0.000300 | 94 | 72.7 - 120.2 | 2 | 20 |
| Xylene | | 1 | 0.282 | mg/L | 1 | 0.300 | <0.000333 | 94 | 72.1 - 121.5 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCS Result | Units | Dil. | Spike Amount | LCS Rec. | LCS Rec. | Rec. Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Trifluorotoluene (TFT) | 0.0992 | 0.0894 | mg/L | 1 | 0.100 | 99 | 89 | 61.9 - 119.2 |
| 4-Bromofluorobenzene (4-BFB) | 0.0986 | 0.0880 | mg/L | 1 | 0.100 | 99 | 88 | 56.4 - 127.9 |

Laboratory Control Spike (LCS-1)

QC Batch: 83606
Prep Batch: 71007

Date Analyzed: 2011-08-04
QC Preparation: 2011-08-03

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | 1 | 27.5 | mg/L | 1 | 25.0 | <0.265 | 110 | 90.9 - 113.9 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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control spikes continued ...

| Param | F | C | LCSD | | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|--------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| | | | Result | Units | | | | | | | |
| Chloride | | 1 | 27.5 | mg/L | 1 | 25.0 | <0.265 | 110 | 90.9 - 113.9 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 83606
Prep Batch: 71007

Date Analyzed: 2011-08-04
QC Preparation: 2011-08-03

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS | | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---|---|--------|-------|------|--------------|---------------|------|------------|
| | | | Result | Units | | | | | |
| Sulfate | | 1 | 26.8 | mg/L | 1 | 25.0 | <0.177 | 107 | 99 - 113.6 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD | | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---|---|--------|-------|------|--------------|---------------|------|------------|-----|-----------|
| | | | Result | Units | | | | | | | |
| Sulfate | | 1 | 26.7 | mg/L | 1 | 25.0 | <0.177 | 107 | 99 - 113.6 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 83880
Prep Batch: 71017

Date Analyzed: 2011-08-15
QC Preparation: 2011-08-05

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS | | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|------------------------|---|---|--------|-------|------|--------------|---------------|------|--------------|
| | | | Result | Units | | | | | |
| Total Dissolved Solids | | 1 | 1020 | mg/L | 1 | 1000 | <9.75 | 102 | 85.5 - 112.7 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCSD | | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|------------------------|---|---|--------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| | | | Result | Units | | | | | | | |
| Total Dissolved Solids | | 1 | 1040 | mg/L | 1 | 1000 | <9.75 | 104 | 85.5 - 112.7 | 2 | 10 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Laboratory Control Spike (LCS-1)

QC Batch: 84218
Prep Batch: 71505

Date Analyzed: 2011-08-22
QC Preparation: 2011-08-22

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | 1 | 24.3 | mg/L | 1 | 25.0 | <0.265 | 97 | 90.9 - 113.9 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | 1 | 24.0 | mg/L | 1 | 25.0 | <0.265 | 96 | 90.9 - 113.9 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 84218
Prep Batch: 71505

Date Analyzed: 2011-08-22
QC Preparation: 2011-08-22

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | | 1 | 26.0 | mg/L | 1 | 25.0 | <0.177 | 104 | 99 - 113.6 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | | 1 | 26.1 | mg/L | 1 | 25.0 | <0.177 | 104 | 99 - 113.6 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 273037

QC Batch: 83538
Prep Batch: 70958

Date Analyzed: 2011-08-03
QC Preparation: 2011-08-03

Analyzed By: ME
Prepared By: ME

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | | 1 | 0.587 | mg/L | 5 | 0.500 | 0.127 | 92 | 66.9 - 128.2 |
| Toluene | | 1 | 0.544 | mg/L | 5 | 0.500 | 0.1205 | 85 | 81.6 - 122.9 |
| Ethylbenzene | | 1 | 0.421 | mg/L | 5 | 0.500 | <0.00150 | 84 | 62.7 - 117.9 |

continued ...

matrix spikes continued ...

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Xylene | | 1 | 1.29 | mg/L | 5 | 1.50 | 0.1543 | 76 | 62.9 - 118.2 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | | 1 | 0.607 | mg/L | 5 | 0.500 | 0.127 | 96 | 66.9 - 128.2 | 3 | 20 |
| Toluene | | 1 | 0.563 | mg/L | 5 | 0.500 | 0.1205 | 88 | 81.6 - 122.9 | 3 | 20 |
| Ethylbenzene | | 1 | 0.438 | mg/L | 5 | 0.500 | <0.00150 | 88 | 62.7 - 117.9 | 4 | 20 |
| Xylene | | 1 | 1.34 | mg/L | 5 | 1.50 | 0.1543 | 79 | 62.9 - 118.2 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|--------------|---------------|-------|------|-----------------|------------|-------------|---------------|
| Trifluorotoluene (TFT) | 0.511 | 0.468 | mg/L | 5 | 0.5 | 102 | 94 | 58.6 - 119.7 |
| 4-Bromofluorobenzene (4-BFB) | 0.502 | 0.461 | mg/L | 5 | 0.5 | 100 | 92 | 52.2 - 135.8 |

Matrix Spike (MS-1) Spiked Sample: 273243

QC Batch: 83606
Prep Batch: 71007

Date Analyzed: 2011-08-04
QC Preparation: 2011-08-03

Analyzed By: AR
Prepared By: AR

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | 1 | 18000 | mg/L | 100 | 2750 | 18000 | 0 | 48.4 - 143.2 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | 1 | 17900 | mg/L | 100 | 2750 | 18000 | 0 | 48.4 - 143.2 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 273243

QC Batch: 83606
Prep Batch: 71007

Date Analyzed: 2011-08-04
QC Preparation: 2011-08-03

Analyzed By: AR
Prepared By: AR

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| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---|---|-----------|-------|------|--------------|---------------|------|--------------|
| Sulfate | | 1 | 3380 | mg/L | 100 | 2750 | 1170 | 80 | 59.7 - 115.4 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---|---|------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| Sulfate | | 1 | 3360 | mg/L | 100 | 2750 | 1170 | 80 | 59.7 - 115.4 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 273206

QC Batch: 84218
Prep Batch: 71505

Date Analyzed: 2011-08-22
QC Preparation: 2011-08-22

Analyzed By: AR
Prepared By: AR

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|-----------|-------|------|--------------|---------------|------|--------------|
| Chloride | | 1 | 2200 | mg/L | 50 | 1380 | 1010 | 86 | 48.4 - 143.2 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| Chloride | | 1 | 2150 | mg/L | 50 | 1380 | 1010 | 83 | 48.4 - 143.2 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 273206

QC Batch: 84218
Prep Batch: 71505

Date Analyzed: 2011-08-22
QC Preparation: 2011-08-22

Analyzed By: AR
Prepared By: AR

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---|---|-----------|-------|------|--------------|---------------|------|--------------|
| Sulfate | | 1 | 1270 | mg/L | 50 | 1380 | 103 | 85 | 59.7 - 115.4 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---|---|------------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| Sulfate | | 1 | 1230 | mg/L | 50 | 1380 | 103 | 82 | 59.7 - 115.4 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Calibration Standards

Standard (CCV-1)

QC Batch: 83538

Date Analyzed: 2011-08-03

Analyzed By: ME

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/L | 0.100 | 0.0989 | 99 | 80 - 120 | 2011-08-03 |
| Toluene | | 1 | mg/L | 0.100 | 0.0948 | 95 | 80 - 120 | 2011-08-03 |
| Ethylbenzene | | 1 | mg/L | 0.100 | 0.0892 | 89 | 80 - 120 | 2011-08-03 |
| Xylene | | 1 | mg/L | 0.300 | 0.271 | 90 | 80 - 120 | 2011-08-03 |

Standard (CCV-2)

QC Batch: 83538

Date Analyzed: 2011-08-03

Analyzed By: ME

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/L | 0.100 | 0.102 | 102 | 80 - 120 | 2011-08-03 |
| Toluene | | 1 | mg/L | 0.100 | 0.0980 | 98 | 80 - 120 | 2011-08-03 |
| Ethylbenzene | | 1 | mg/L | 0.100 | 0.0920 | 92 | 80 - 120 | 2011-08-03 |
| Xylene | | 1 | mg/L | 0.300 | 0.276 | 92 | 80 - 120 | 2011-08-03 |

Standard (CCV-3)

QC Batch: 83538

Date Analyzed: 2011-08-03

Analyzed By: ME

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/L | 0.100 | 0.101 | 101 | 80 - 120 | 2011-08-03 |
| Toluene | | 1 | mg/L | 0.100 | 0.0972 | 97 | 80 - 120 | 2011-08-03 |
| Ethylbenzene | | 1 | mg/L | 0.100 | 0.0903 | 90 | 80 - 120 | 2011-08-03 |
| Xylene | | 1 | mg/L | 0.300 | 0.272 | 91 | 80 - 120 | 2011-08-03 |

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Standard (ICV-1)

QC Batch: 83606

Date Analyzed: 2011-08-04

Analyzed By: AR

| Param | Flag | Cert | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | 1 | mg/L | 25.0 | 26.8 | 107 | 90 - 110 | 2011-08-04 |

Standard (ICV-1)

QC Batch: 83606

Date Analyzed: 2011-08-04

Analyzed By: AR

| Param | Flag | Cert | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | 1 | mg/L | 25.0 | 26.7 | 107 | 90 - 110 | 2011-08-04 |

Standard (CCV-1)

QC Batch: 83606

Date Analyzed: 2011-08-04

Analyzed By: AR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | 1 | mg/L | 25.0 | 27.1 | 108 | 90 - 110 | 2011-08-04 |

Standard (CCV-1)

QC Batch: 83606

Date Analyzed: 2011-08-04

Analyzed By: AR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | 1 | mg/L | 25.0 | 26.6 | 106 | 90 - 110 | 2011-08-04 |

Standard (ICV-1)

QC Batch: 84218

Date Analyzed: 2011-08-22

Analyzed By: AR

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| Param | Flag | Cert | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | 1 | mg/L | 25.0 | 24.8 | 99 | 90 - 110 | 2011-08-22 |

Standard (ICV-1)

QC Batch: 84218

Date Analyzed: 2011-08-22

Analyzed By: AR

| Param | Flag | Cert | Units | ICVs True Conc. | ICVs Found Conc. | ICVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | 1 | mg/L | 25.0 | 25.0 | 100 | 90 - 110 | 2011-08-22 |

Standard (CCV-1)

QC Batch: 84218

Date Analyzed: 2011-08-22

Analyzed By: AR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | 1 | mg/L | 25.0 | 24.3 | 97 | 90 - 110 | 2011-08-22 |

Standard (CCV-1)

QC Batch: 84218

Date Analyzed: 2011-08-22

Analyzed By: AR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | 1 | mg/L | 25.0 | 27.4 | 110 | 90 - 110 | 2011-08-22 |

Appendix

Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - | DBE | VN 20657 | TraceAnalysis |
| - | HUB | 1752439743100-86536 | TraceAnalysis |
| - | WBE | 237019 | TraceAnalysis |
| 1 | NELAP | T104704392-10-TX | Midland |

Standard Flags

| F | Description |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B | Analyte detected in the corresponding method blank above the method detection limit |
| H | Analyzed out of hold time |
| J | Estimated concentration |
| Jb | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je | Estimated concentration exceeding calibration range. |
| Qc | Calibration check outside of laboratory limits. |
| Qr | RPD outside of laboratory limits |
| Qs | Spike recovery outside of laboratory limits. |
| Qsr | Surrogate recovery outside of laboratory limits. |
| U | The analyte is not detected above the SDL |

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

2 xuo #: 11080110

Analysis Request of Chain of Custody Record

PAGE: / OF: /



TETRA TECH

1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: Celero SITE MANAGER: Jeff Kinclay

PROJECT NO.: 115-4403130 PROJECT NAME: Celero / Rock Quarry # 7

LAB I.D. NUMBER DATE TIME MATRIX COMP GRAB SAMPLE IDENTIFICATION

| LAB I.D. NUMBER | DATE | TIME | MATRIX | COMP | GRAB | SAMPLE IDENTIFICATION |
|-----------------|------|------|--------|------|------|-----------------------|
| 273243 | 7/29 | 1250 | W | | X | NW-1 |
| 244 | | 1230 | | | | MW-2 |
| 245 | | 1240 | | | | MW-3 |
| 246 | | 1300 | | | | MW-4 |

NUMBER OF CONTAINERS FILTERED (Y/N) PRESERVATIVE METHOD

| NUMBER OF CONTAINERS | FILTERED (Y/N) | HCL | HNO3 | ICE | NONE |
|----------------------|----------------|-----|------|-----|------|
| 4 | N | X | | X | |
| | | | | | |
| | | | | | |
| | | | | | |

| TPH 8016 MOD. TX1008 (Ext. to C35) | PAH 8270 | RCRA Metals Ag As Ba Cd Cr Pb Hg Se | TCLP Metals Ag As Ba Cd Vr Pd Hg Se | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC/MS Vol. 8240/8260/824 | GC/MS Semi. Vol. 8270/825 | PCB's 8080/608 | Pest. 808/608 | Chloride | Gamma Spec. | Alpha Beta (Air) | PLM (Asbestos) | Major Anions/Cations, pH, TDS |
|-------------------------------------|----------|-------------------------------------|-------------------------------------|----------------|---------------------|-----|--------------------------|---------------------------|----------------|---------------|-------------------------------------|-------------|------------------|----------------|-------------------------------------|
| <input checked="" type="checkbox"/> | | | | | | | | | | | <input checked="" type="checkbox"/> | | | | <input checked="" type="checkbox"/> |

RELINQUISHED BY: (Signature) [Signature] Date: 7/29/11 Time: 1535

RECEIVED BY: (Signature) [Signature] Date: 7/29/11 Time: 1535

SAMPLED BY: (Print & Initial) JT/JTS Date: 7/29/11 Time: 1535

RECEIVING LABORATORY: Tracc ADDRESS: Midland CITY: Midland STATE: TX ZIP: CONTACT: PHONE:

RECEIVED BY: (Signature) [Signature] DATE: TIME:

TETRA TECH CONTACT PERSON: Jeff Kinclay Results by:

SAMPLE CONDITION WHEN RECEIVED: 100°C intact

REMARKS: All tests - Midland

Please fill out all copies - Laboratory retains Yellow copy - Return Original copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.



5701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
 200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
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 6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
 E-Mail: lab@traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Jeff Kindley
 Tetra Tech
 1910 N. Big Spring Street
 Midland, TX, 79705

Report Date: November 4, 2011

Work Order: 11103124



Project Location: Chavez Co., NM
 Project Name: Celero/Rock Queen Tract #7
 Project Number: 115-6403130A

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 281139 | MW-4 | water | 2011-10-28 | 13:25 | 2011-10-31 |
| 281140 | MW-2 | water | 2011-10-28 | 13:55 | 2011-10-31 |
| 281141 | MW-1 | water | 2011-10-28 | 13:45 | 2011-10-31 |
| 281142 | MW-3 | water | 2011-10-28 | 13:35 | 2011-10-31 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 13 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director
 Dr. Michael Abel, Project Manager

Report Contents

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Case Narrative

Samples for project Celero/Rock Queen Tract #7 were received by TraceAnalysis, Inc. on 2011-10-31 and assigned to work order 11103124. Samples for work order 11103124 were received intact without headspace and at a temperature of 3.9 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|---------------|---------|---------------|---------------------|-------------|---------------------|
| BTEX | S 8021B | 73013 | 2011-11-01 at 15:26 | 85998 | 2011-11-01 at 15:26 |
| Chloride (IC) | E 300.0 | 73086 | 2011-11-02 at 09:33 | 86077 | 2011-11-02 at 17:50 |
| Chloride (IC) | E 300.0 | 73087 | 2011-11-02 at 10:34 | 86078 | 2011-11-02 at 21:51 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11103124 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 281139 - MW-4

Laboratory: Lubbock
 Analysis: BTEX
 QC Batch: 85998
 Prep Batch: 73013

Analytical Method: S 8021B
 Date Analyzed: 2011-11-01
 Sample Preparation: 2011-11-01

Prep Method: S 5030B
 Analyzed By: ZLM
 Prepared By: ZLM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene | U | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | U | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | U | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | U | 1 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 0.110 | mg/L | 1 | 0.100 | 110 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.108 | mg/L | 1 | 0.100 | 108 | 70 - 130 |

Sample: 281139 - MW-4

Laboratory: Midland
 Analysis: Chloride (IC)
 QC Batch: 86077
 Prep Batch: 73086

Analytical Method: E 300.0
 Date Analyzed: 2011-11-02
 Sample Preparation: 2011-11-02

Prep Method: N/A
 Analyzed By: AR
 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | Qs | 2 | 144 | mg/L | 5 | 2.50 |

Sample: 281140 - MW-2

Laboratory: Lubbock
 Analysis: BTEX
 QC Batch: 85998
 Prep Batch: 73013

Analytical Method: S 8021B
 Date Analyzed: 2011-11-01
 Sample Preparation: 2011-11-01

Prep Method: S 5030B
 Analyzed By: ZLM
 Prepared By: ZLM

Report Date: November 4, 2011
115-6403130A

Work Order: 11103124
Celero/Rock Queen Tract #7

Page Number: 5 of 13
Chavez Co., NM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | |
|--------------|------|------|--------------|----------|----------|---------|---------|
| Benzene | | 1 | <0.00100 | mg/L | 1 | 0.00100 | |
| Toluene | u | U | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | u | U | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | u | U | 1 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 0.111 | mg/L | 1 | 0.100 | 111 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.109 | mg/L | 1 | 0.100 | 109 | 70 - 130 |

Sample: 281140 - MW-2

Laboratory: Midland
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 86078 Date Analyzed: 2011-11-02 Analyzed By: AR
 Prep Batch: 73087 Sample Preparation: 2011-11-02 Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | |
|-----------|------|------|--------------|-------|----------|------|------|
| Chloride | qs | Qs | 2 | 10500 | mg/L | 1000 | 2.50 |

Sample: 281141 - MW-1

Laboratory: Lubbock
 Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
 QC Batch: 85998 Date Analyzed: 2011-11-01 Analyzed By: ZLM
 Prep Batch: 73013 Sample Preparation: 2011-11-01 Prepared By: ZLM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL | |
|--------------|------|------|--------------|----------|----------|----|---------|
| Benzene | u | U | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | u | U | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | u | U | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | u | U | 1 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 0.126 | mg/L | 1 | 0.100 | 126 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.112 | mg/L | 1 | 0.100 | 112 | 70 - 130 |

Report Date: November 4, 2011
115-6403130A

Work Order: 11103124
Celero/Rock Queen Tract #7

Page Number: 6 of 13
Chavez Co., NM

Sample: 281141 - MW-1

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 86078
Prep Batch: 73087

Analytical Method: E 300.0
Date Analyzed: 2011-11-02
Sample Preparation: 2011-11-02

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | Qs | 2 | 13100 | mg/L | 1000 | 2.50 |

Sample: 281142 - MW-3

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 85998
Prep Batch: 73013

Analytical Method: S 8021B
Date Analyzed: 2011-11-01
Sample Preparation: 2011-11-01

Prep Method: S 5030B
Analyzed By: ZLM
Prepared By: ZLM

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|--------------|------|------|--------------|-------|----------|---------|
| Benzene | U | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Toluene | U | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Ethylbenzene | U | 1 | <0.00100 | mg/L | 1 | 0.00100 |
| Xylene | U | 1 | <0.00100 | mg/L | 1 | 0.00100 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 0.105 | mg/L | 1 | 0.100 | 105 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.109 | mg/L | 1 | 0.100 | 109 | 70 - 130 |

Sample: 281142 - MW-3

Laboratory: Midland
Analysis: Chloride (IC)
QC Batch: 86078
Prep Batch: 73087

Analytical Method: E 300.0
Date Analyzed: 2011-11-02
Sample Preparation: 2011-11-02

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | RL Result | Units | Dilution | RL |
|-----------|------|------|--------------|-------|----------|------|
| Chloride | Qs | 2 | 33400 | mg/L | 5000 | 2.50 |

Method Blanks

Method Blank (1) QC Batch: 85998

QC Batch: 85998
Prep Batch: 73013

Date Analyzed: 2011-11-01
QC Preparation: 2011-11-01

Analyzed By: ZLM
Prepared By: ZLM

| Parameter | Flag | Cert | MDL Result | Units | RL |
|--------------|------|------|---------------|-------|-------|
| Benzene | | 1 | <0.000765 | mg/L | 0.001 |
| Toluene | | 1 | <0.000719 | mg/L | 0.001 |
| Ethylbenzene | | 1 | <0.000860 | mg/L | 0.001 |
| Xylene | | 1 | <0.000942 | mg/L | 0.001 |

| Surrogate | Flag | Cert | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | | | 0.0927 | mg/L | 1 | 0.100 | 93 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | | | 0.0945 | mg/L | 1 | 0.100 | 94 | 70 - 130 |

Method Blank (1) QC Batch: 86077

QC Batch: 86077
Prep Batch: 73086

Date Analyzed: 2011-11-02
QC Preparation: 2011-11-02

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|-----|
| Chloride | | 2 | 0.668 | mg/L | 2.5 |

Method Blank (1) QC Batch: 86078

QC Batch: 86078
Prep Batch: 73087

Date Analyzed: 2011-11-02
QC Preparation: 2011-11-02

Analyzed By: AR
Prepared By: AR

| Parameter | Flag | Cert | MDL Result | Units | RL |
|-----------|------|------|---------------|-------|-----|
| Chloride | | 2 | 0.685 | mg/L | 2.5 |

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 85998
Prep Batch: 73013

Date Analyzed: 2011-11-01
QC Preparation: 2011-11-01

Analyzed By: ZLM
Prepared By: ZLM

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | | 1 | 0.0989 | mg/L | 1 | 0.100 | <0.000765 | 99 | 70 - 130 |
| Toluene | | 1 | 0.0957 | mg/L | 1 | 0.100 | <0.000719 | 96 | 70 - 130 |
| Ethylbenzene | | 1 | 0.0945 | mg/L | 1 | 0.100 | <0.000860 | 94 | 70 - 130 |
| Xylene | | 1 | 0.279 | mg/L | 1 | 0.300 | <0.000942 | 93 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | | 1 | 0.0991 | mg/L | 1 | 0.100 | <0.000765 | 99 | 70 - 130 | 0 | 20 |
| Toluene | | 1 | 0.0949 | mg/L | 1 | 0.100 | <0.000719 | 95 | 70 - 130 | 1 | 20 |
| Ethylbenzene | | 1 | 0.0941 | mg/L | 1 | 0.100 | <0.000860 | 94 | 70 - 130 | 0 | 20 |
| Xylene | | 1 | 0.280 | mg/L | 1 | 0.300 | <0.000942 | 93 | 70 - 130 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCS Result | Units | Dil. | Spike Amount | LCS Rec. | LCS Rec. | Rec. Limit |
|------------------------------|---------------|---------------|-------|------|-----------------|-------------|-------------|---------------|
| Trifluorotoluene (TFT) | 0.0935 | 0.0945 | mg/L | 1 | 0.100 | 94 | 94 | 70 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 0.0948 | 0.0979 | mg/L | 1 | 0.100 | 95 | 98 | 70 - 130 |

Laboratory Control Spike (LCS-1)

QC Batch: 86077
Prep Batch: 73086

Date Analyzed: 2011-11-02
QC Preparation: 2011-11-02

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | 2 | 23.7 | mg/L | 1 | 25.0 | <0.265 | 95 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued . . .

control spikes continued ...

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | 2 | 23.7 | mg/L | 1 | 25.0 | <0.265 | 95 | 90 - 110 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 86078
Prep Batch: 73087

Date Analyzed: 2011-11-02
QC Preparation: 2011-11-02

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | | 2 | 23.2 | mg/L | 1 | 25.0 | <0.265 | 93 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | | 2 | 23.7 | mg/L | 1 | 25.0 | <0.265 | 95 | 90 - 110 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 281133

QC Batch: 85998
Prep Batch: 73013

Date Analyzed: 2011-11-01
QC Preparation: 2011-11-01

Analyzed By: ZLM
Prepared By: ZLM

| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|--------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Benzene | | 1 | 0.104 | mg/L | 1 | 0.100 | <0.000765 | 104 | 70 - 130 |
| Toluene | | 1 | 0.0987 | mg/L | 1 | 0.100 | <0.000719 | 99 | 70 - 130 |
| Ethylbenzene | | 1 | 0.0972 | mg/L | 1 | 0.100 | <0.000860 | 97 | 70 - 130 |
| Xylene | | 1 | 0.290 | mg/L | 1 | 0.300 | <0.000942 | 97 | 70 - 130 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Benzene | | 1 | 0.104 | mg/L | 1 | 0.100 | <0.000765 | 104 | 70 - 130 | 0 | 20 |
| Toluene | | 1 | 0.100 | mg/L | 1 | 0.100 | <0.000719 | 100 | 70 - 130 | 1 | 20 |

continued ...

matrix spikes continued ...

| Param | F | C | MSD | | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|--------------|---|---|--------|-------|------|--------------|---------------|------|------------|-----|-----------|
| | | | Result | Units | | | | | | | |
| Ethylbenzene | | 1 | 0.0979 | mg/L | 1 | 0.100 | <0.000860 | 98 | 70 - 130 | 1 | 20 |
| Xylene | | 1 | 0.294 | mg/L | 1 | 0.300 | <0.000942 | 98 | 70 - 130 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|------------------------------|-----------|------------|-------|------|--------------|---------|----------|------------|
| | | | | | | | | |
| 4-Bromofluorobenzene (4-BFB) | 0.0984 | 0.0961 | mg/L | 1 | 0.1 | 98 | 96 | 70 - 130 |

Matrix Spike (MS-1) Spiked Sample: 281137

QC Batch: 86077
Prep Batch: 73086

Date Analyzed: 2011-11-02
QC Preparation: 2011-11-02

Analyzed By: AR
Prepared By: AR

| Param | F | C | MS | | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | |
|----------|----|----|--------|-------|------|--------------|---------------|-------|------------|----------|
| | | | Result | Units | | | | | | |
| Chloride | Qs | Qs | 2 | 14800 | mg/L | 100 | 2750 | 13900 | 33 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD | | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit | |
|----------|----|----|--------|-------|------|--------------|---------------|-------|------------|----------|-----------|----|
| | | | Result | Units | | | | | | | | |
| Chloride | Qs | Qs | 2 | 14900 | mg/L | 100 | 2750 | 13900 | 36 | 90 - 110 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 281141

QC Batch: 86078
Prep Batch: 73087

Date Analyzed: 2011-11-02
QC Preparation: 2011-11-02

Analyzed By: AR
Prepared By: AR

| Param | F | C | MS | | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | |
|----------|----|----|--------|-------|------|--------------|---------------|-------|------------|----------|
| | | | Result | Units | | | | | | |
| Chloride | Qs | Qs | 2 | 16100 | mg/L | 100 | 2750 | 14800 | 47 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD | | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit | |
|----------|----|----|--------|-------|------|--------------|---------------|-------|------------|----------|-----------|----|
| | | | Result | Units | | | | | | | | |
| Chloride | Qs | Qs | 2 | 15800 | mg/L | 100 | 2750 | 14800 | 36 | 90 - 110 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Calibration Standards

Standard (CCV-1)

QC Batch: 85998

Date Analyzed: 2011-11-01

Analyzed By: ZLM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/L | 0.100 | 0.0978 | 98 | 80 - 120 | 2011-11-01 |
| Toluene | | 1 | mg/L | 0.100 | 0.0936 | 94 | 80 - 120 | 2011-11-01 |
| Ethylbenzene | | 1 | mg/L | 0.100 | 0.0927 | 93 | 80 - 120 | 2011-11-01 |
| Xylene | | 1 | mg/L | 0.300 | 0.274 | 91 | 80 - 120 | 2011-11-01 |

Standard (CCV-2)

QC Batch: 85998

Date Analyzed: 2011-11-01

Analyzed By: ZLM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/L | 0.100 | 0.104 | 104 | 80 - 120 | 2011-11-01 |
| Toluene | | 1 | mg/L | 0.100 | 0.0999 | 100 | 80 - 120 | 2011-11-01 |
| Ethylbenzene | | 1 | mg/L | 0.100 | 0.0984 | 98 | 80 - 120 | 2011-11-01 |
| Xylene | | 1 | mg/L | 0.300 | 0.292 | 97 | 80 - 120 | 2011-11-01 |

Standard (CCV-3)

QC Batch: 85998

Date Analyzed: 2011-11-01

Analyzed By: ZLM

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene | | 1 | mg/L | 0.100 | 0.105 | 105 | 80 - 120 | 2011-11-01 |
| Toluene | | 1 | mg/L | 0.100 | 0.100 | 100 | 80 - 120 | 2011-11-01 |
| Ethylbenzene | | 1 | mg/L | 0.100 | 0.0986 | 99 | 80 - 120 | 2011-11-01 |
| Xylene | | 1 | mg/L | 0.300 | 0.290 | 96 | 80 - 120 | 2011-11-01 |

Standard (CCV-1)

QC Batch: 86077

Date Analyzed: 2011-11-02

Analyzed By: AR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | 2 | mg/L | 25.0 | 23.8 | 95 | 90 - 110 | 2011-11-02 |

Standard (CCV-2)

QC Batch: 86077

Date Analyzed: 2011-11-02

Analyzed By: AR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | 2 | mg/L | 25.0 | 23.6 | 94 | 90 - 110 | 2011-11-02 |

Standard (CCV-1)

QC Batch: 86078

Date Analyzed: 2011-11-02

Analyzed By: AR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | 2 | mg/L | 25.0 | 23.6 | 94 | 90 - 110 | 2011-11-02 |

Standard (CCV-2)

QC Batch: 86078

Date Analyzed: 2011-11-02

Analyzed By: AR

| Param | Flag | Cert | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride | | 2 | mg/L | 25.0 | 23.8 | 95 | 90 - 110 | 2011-11-02 |

Appendix

Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - | DBE | VN 20657 | TraceAnalysis |
| - | HUB | 1752439743100-86536 | TraceAnalysis |
| - | WBE | 237019 | TraceAnalysis |
| 1 | NELAP | T104704219-11-4 | Lubbock |
| 2 | NELAP | T104704392-10-TX | Midland |

Standard Flags

| F | Description |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B | Analyte detected in the corresponding method blank above the method detection limit |
| H | Analyzed out of hold time |
| J | Estimated concentration |
| Jb | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je | Estimated concentration exceeding calibration range. |
| Qc | Calibration check outside of laboratory limits. |
| Qr | RPD outside of laboratory limits |
| Qs | Spike recovery outside of laboratory limits. |
| Qsr | Surrogate recovery outside of laboratory limits. |
| U | The analyte is not detected above the SDL |

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

WO # 11103124

Analysis Request of Chain of Custody Record

PAGE: 1



TETRA TECH

1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: Cekero SITE MANAGER: Jeff Kindley

PROJECT NO.: 115-240 3730 PROJECT NAME: Cekero / Rock Queen #7

| LAB I.D. NUMBER | DATE | TIME | MATRIX | COMP. | GRAB | SAMPLE IDENTIFICATION | NUMBER OF CONTAINERS | FILTERED (Y/N) | PRESERVATIVE METHOD | | | | BTEX 8021B | TPH 8015 MOD. TX1005 (Ext. to C35) | PAH 8270 | RCRA Metals Ag As Ba Cd Cr Pb Hg Se | TCLP Metals Ag As Ba Cd Vr Pd Hg Se | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC/MS Vol. 8240/8260/824 | GC/MS Semi. Vol. 8270/825 | PCB's 8080/608 | Pest. 808/608 | Chloride | Gamma Spec. | Alpha Beta (Air) | PLM (Asbestos) | Major Anions/Cations, pH, TDS | | |
|-----------------|----------|------|--------|-------|------|-----------------------|----------------------|----------------|---------------------|------|-----|------|------------|------------------------------------|----------|-------------------------------------|-------------------------------------|----------------|---------------------|-----|--------------------------|---------------------------|----------------|---------------|----------|-------------|------------------|----------------|-------------------------------|--|--|
| | | | | | | | | | HCL | HNO3 | ICE | NONE | | | | | | | | | | | | | | | | | | | |
| 28139 | 12/29/11 | 1325 | W | | X | MW-4 | 4 | N | X | | | | X | | | | | | | | | | | | X | | | | | | |
| 140 | | 1355 | | | | MW-2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 141 | | 1345 | | | | MW-1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 142 | | 1335 | | | | MW-3 | | | | | | | | | | | | | | | | | | | | | | | | | |

RELINQUISHED BY: (Signature) [Signature] Date: 12/31/11 Time: 1140

RELINQUISHED BY: (Signature) [Signature] Date: 12/31/11 Time: 1600

RELINQUISHED BY: (Signature) _____ Date: _____ Time: _____

RECEIVED BY: (Signature) [Signature] Date: 12/31/11 Time: 1140

RECEIVED BY: (Signature) _____ Date: _____ Time: _____

RECEIVED BY: (Signature) _____ Date: _____ Time: _____

SAMPLED BY: (Print & Initial) JT/SA Date: _____ Time: _____

SAMPLE SHIPPED BY: (Circle) HAND DELIVERED FEDEX BUS AIRBILL #: _____ UPS OTHER: _____

TETRA TECH CONTACT PERSON: Jeff Kindley Results by: _____

RECEIVING LABORATORY: Trace RECEIVED BY: (Signature) Brenda Ward

ADDRESS: _____ CITY: Midland STATE: TX ZIP: _____ CONTACT: _____ PHONE: _____ DATE: 11/1/11 TIME: 8:40

SAMPLE CONDITION WHEN RECEIVED: Intact REMARKS: 39°C Midland-Chloride Lubbock - BTEX LS ZN003964 3.9°C

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6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
 200 East Sunset Road, Suite E El Paso, Texas 79922 808•588•3443 915•585•3443 FAX 915•585•4944
 5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
 6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
 E-Mail: lab@traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Jeff Kindley
 Tetra Tech
 1910 N. Big Spring Street
 Midland, TX, 79705

Report Date: November 30, 2011

Work Order: 11103124



Project Location: Chavez Co., NM
 Project Name: Celero/Rock Queen Tract #7
 Project Number: 115-6403130A

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 281139 | MW-4 | water | 2011-10-28 | 13:25 | 2011-10-31 |
| 281140 | MW-2 | water | 2011-10-28 | 13:55 | 2011-10-31 |
| 281141 | MW-1 | water | 2011-10-28 | 13:45 | 2011-10-31 |
| 281142 | MW-3 | water | 2011-10-28 | 13:35 | 2011-10-31 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:
 For inorganic analyses, the term MQL should actually read PQL.

Dr. Blair Leftwich, Director
 Dr. Michael Abel, Project Manager

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Case Narrative

Samples for project Celero/Rock Queen Tract #7 were received by TraceAnalysis, Inc. on 2011-10-31 and assigned to work order 11103124. Samples for work order 11103124 were received intact without headspace and at a temperature of 3.9 C.

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|----------|----------|---------------|---------------------|-------------|---------------------|
| SO4 (IC) | E 300.0 | 73346 | 2011-11-01 at 10:24 | 86371 | 2011-11-02 at 10:30 |
| SO4 (IC) | E 300.0 | 73346 | 2011-11-01 at 10:24 | 86373 | 2011-11-02 at 10:31 |
| TDS | SM 2540C | 73423 | 2011-11-15 at 13:54 | 86753 | 2011-11-18 at 15:13 |
| TDS | SM 2540C | 73460 | 2011-11-16 at 15:57 | 86754 | 2011-11-21 at 15:15 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11103124 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 281139 - MW-4

Laboratory: Midland
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 86371 Date Analyzed: 2011-11-02 Analyzed By: AR
 Prep Batch: 73346 Sample Preparation: 2011-11-03 Prepared By: AR

| Parameter | F | C | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|-----------|----|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Sulfate | Qs | 1 | 113 | 113 | <0.885 | mg/L | 5 | 0.885 | 2.5 | 0.177 |

Sample: 281139 - MW-4

Laboratory: Midland
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 86753 Date Analyzed: 2011-11-18 Analyzed By: AR
 Prep Batch: 73423 Sample Preparation: 2011-11-15 Prepared By: AR

| Parameter | F | C | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids | | 1 | 770 | 770 | <19.5 | mg/L | 2 | 19.5 | 10 | 9.75 |

Sample: 281140 - MW-2

Laboratory: Midland
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 86373 Date Analyzed: 2011-11-02 Analyzed By: AR
 Prep Batch: 73346 Sample Preparation: 2011-11-03 Prepared By: AR

| Parameter | F | C | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|-----------|----|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Sulfate | Qs | 1 | 1010 | 1010 | <17.7 | mg/L | 100 | 17.7 | 2.5 | 0.177 |

Sample: 281140 - MW-2

Laboratory: Midland
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A

Report Date: November 30, 2011
115-6403130A

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QC Batch: 86753 Date Analyzed: 2011-11-18 Analyzed By: AR
Prep Batch: 73423 Sample Preparation: 2011-11-15 Prepared By: AR

| Parameter | F | C | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|-----|---------------------|---------------------|
| Total Dissolved Solids | | 1 | 19500 | 19500 | <975 | mg/L | 100 | 975 | 10 | 9.75 |

Sample: 281141 - MW-1

Laboratory: Midland
Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86373 Date Analyzed: 2011-11-02 Analyzed By: AR
Prep Batch: 73346 Sample Preparation: 2011-11-03 Prepared By: AR

| Parameter | F | C | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|-----------|----|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Sulfate | Qs | 1 | 1270 | 1270 | <17.7 | mg/L | 100 | 17.7 | 2.5 | 0.177 |

Sample: 281141 - MW-1

Laboratory: Midland
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 86753 Date Analyzed: 2011-11-18 Analyzed By: AR
Prep Batch: 73423 Sample Preparation: 2011-11-15 Prepared By: AR

| Parameter | F | C | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|-----|---------------------|---------------------|
| Total Dissolved Solids | | 1 | 23200 | 23200 | <975 | mg/L | 100 | 975 | 10 | 9.75 |

Sample: 281142 - MW-3

Laboratory: Midland
Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 86373 Date Analyzed: 2011-11-02 Analyzed By: AR
Prep Batch: 73346 Sample Preparation: 2011-11-03 Prepared By: AR

| Parameter | F | C | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|-----------|----|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Sulfate | Qs | 1 | 1480 | 1480 | <88.5 | mg/L | 500 | 88.5 | 2.5 | 0.177 |

Report Date: November 30, 2011
115-6403130A

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Celero/Rock Queen Tract #7

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Sample: 281142 - MW-3

Laboratory: Midland
Analysis: TDS
QC Batch: 86754
Prep Batch: 73460

Analytical Method: SM 2540C
Date Analyzed: 2011-11-21
Sample Preparation: 2011-11-17

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

| Parameter | F | C | SDL | SQL | Method | Units | Dilution | SDL | SQL | MDL |
|------------------------|---|---|-------|-------|--------|-------|----------|-----|--------------|--------------|
| | | | Based | Based | Blank | | | | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids | | 1 | 57000 | 57000 | <975 | mg/L | 100 | 975 | 10 | 9.75 |

Method Blanks

Method Blank (1)

QC Batch: 86371
Prep Batch: 73346

Date Analyzed: 2011-11-02
QC Preparation: 2011-11-01

Analyzed By: AR
Prepared By: AR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Sulfate | | 1 | <0.177 | mg/L | 0.177 |

Method Blank (1)

QC Batch: 86373
Prep Batch: 73346

Date Analyzed: 2011-11-02
QC Preparation: 2011-11-01

Analyzed By: AR
Prepared By: AR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Sulfate | | 1 | <0.177 | mg/L | 0.177 |

Method Blank (1)

QC Batch: 86753
Prep Batch: 73423

Date Analyzed: 2011-11-18
QC Preparation: 2011-11-15

Analyzed By: AR
Prepared By: AR

| Parameter | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids | | 1 | <9.75 | mg/L | 9.75 |

Method Blank (1)

QC Batch: 86754
Prep Batch: 73460

Date Analyzed: 2011-11-21
QC Preparation: 2011-11-16

Analyzed By: AR
Prepared By: AR

Report Date: November 30, 2011
115-6403130A

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| Parameter | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids | | 1 | <9.75 | mg/L | 9.75 |

Duplicate (1) Duplicated Sample: 281141

QC Batch: 86753 Date Analyzed: 2011-11-18 Analyzed By: AR
Prep Batch: 73423 QC Preparation: 2011-11-15 Prepared By: AR

| Param | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids | | 1 | 22400 | 23200 | mg/L | 100 | 4 | 10 |

Duplicate (1) Duplicated Sample: 281151

QC Batch: 86754 Date Analyzed: 2011-11-21 Analyzed By: AR
Prep Batch: 73460 QC Preparation: 2011-11-16 Prepared By: AR

| Param | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids | | 1 | 130000 | 135000 | mg/L | 100 | 4 | 10 |

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86371
Prep Batch: 73346

Date Analyzed: 2011-11-02
QC Preparation: 2011-11-01

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | | 1 | 25.2 | mg/L | 1 | 25.0 | <0.177 | 101 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | | 1 | 25.1 | mg/L | 1 | 25.0 | <0.177 | 100 | 90 - 110 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 86373
Prep Batch: 73346

Date Analyzed: 2011-11-02
QC Preparation: 2011-11-01

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | | 1 | 25.2 | mg/L | 1 | 25.0 | <0.177 | 101 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | | 1 | 25.1 | mg/L | 1 | 25.0 | <0.177 | 100 | 90 - 110 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 86753
Prep Batch: 73423

Date Analyzed: 2011-11-18
QC Preparation: 2011-11-15

Analyzed By: AR
Prepared By: AR

| Param | F | C | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids | | 1 | 961 | mg/L | 1 | 1000 | <9.75 | 96 | 85.5 - 112.7 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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115-6403130A

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| Param | LCS | | Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|------------------------|-----|---|--------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| | F | C | | | | | | | | | |
| Total Dissolved Solids | | 1 | 987 | mg/L | 1 | 1000 | <9.75 | 99 | 85.5 - 112.7 | 3 | 10 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 86754
Prep Batch: 73460

Date Analyzed: 2011-11-21
QC Preparation: 2011-11-16

Analyzed By: AR
Prepared By: AR

| Param | LCS | | Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|------------------------|-----|---|--------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| | F | C | | | | | | | | | |
| Total Dissolved Solids | | 1 | 1000 | mg/L | 1 | 1000 | <9.75 | 100 | 85.5 - 112.7 | | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCS | | Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|------------------------|-----|---|--------|-------|------|--------------|---------------|------|--------------|-----|-----------|
| | F | C | | | | | | | | | |
| Total Dissolved Solids | | 1 | 1030 | mg/L | 1 | 1000 | <9.75 | 103 | 85.5 - 112.7 | 3 | 10 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 281137

QC Batch: 86371
Prep Batch: 73346

Date Analyzed: 2011-11-02
QC Preparation: 2011-11-01

Analyzed By: AR
Prepared By: AR

| Param | MS | | Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|----|---|--------|-------|------|--------------|---------------|------|------------|-----|-----------|
| | F | C | | | | | | | | | |
| Sulfate | Qs | 1 | 2450 | mg/L | 100 | 2750 | 173 | 83 | 90 - 110 | | |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD | | Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|-----|---|--------|-------|------|--------------|---------------|------|------------|-----|-----------|
| | F | C | | | | | | | | | |
| Sulfate | Qs | 1 | 2460 | mg/L | 100 | 2750 | 173 | 83 | 90 - 110 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 281141

QC Batch: 86373
Prep Batch: 73346

Date Analyzed: 2011-11-02
QC Preparation: 2011-11-01

Analyzed By: AR
Prepared By: AR

Report Date: November 30, 2011
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| Param | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---------|----|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | Qs | 1 | 3480 | mg/L | 100 | 2750 | 1270 | 80 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | F | C | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | | 1 | 3500 | mg/L | 100 | 2750 | 1270 | 81 | 90 - 110 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Calibration Standards

Standard (ICV-1)

QC Batch: 86371

Date Analyzed: 2011-11-02

Analyzed By: AR

| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | 1 | mg/L | 25.0 | 25.6 | 102 | 90 - 110 | 2011-11-02 |

Standard (CCV-1)

QC Batch: 86371

Date Analyzed: 2011-11-02

Analyzed By: AR

| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | 1 | mg/L | 25.0 | 25.2 | 101 | 90 - 110 | 2011-11-02 |

Standard (ICV-1)

QC Batch: 86373

Date Analyzed: 2011-11-02

Analyzed By: AR

| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | 1 | mg/L | 25.0 | 25.2 | 101 | 90 - 110 | 2011-11-02 |

Standard (CCV-1)

QC Batch: 86373

Date Analyzed: 2011-11-02

Analyzed By: AR

| Param | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate | | 1 | mg/L | 25.0 | 25.3 | 101 | 90 - 110 | 2011-11-02 |

Limits of Detection (LOD)

Appendix

Report Definitions

| Name | Definition |
|------|----------------------------|
| MDL | Method Detection Limit |
| MQL | Minimum Quantitation Limit |
| SDL | Sample Detection Limit |

Laboratory Certifications

| Certifying Authority | Certification Number | Laboratory Location |
|----------------------|----------------------|---------------------|
| - NCTRCA | WFWB384444Y0909 | TraceAnalysis |
| - DBE | VN 20657 | TraceAnalysis |
| - HUB | 1752439743100-86536 | TraceAnalysis |
| - WBE | 237019 | TraceAnalysis |
| 1 NELAP | T104704392-10-TX | Midland |

Standard Flags

| F | Description |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B | Analyte detected in the corresponding method blank above the method detection limit |
| H | Analyzed out of hold time |
| J | Estimated concentration |
| Jb | The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL. |
| Je | Estimated concentration exceeding calibration range. |
| Qc | Calibration check outside of laboratory limits. |
| Qr | RPD outside of laboratory limits |
| Qs | Spike recovery outside of laboratory limits. |
| Qsr | Surrogate recovery outside of laboratory limits. |
| U | The analyte is not detected above the SDL |

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

WO # 11103124

Analysis Request of Chain of Custody Record



TETRA TECH
 1910 N. Big Spring St.
 Midland, Texas 79705
 (432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
 (Circle or Specify Method No.)

CLIENT NAME: Cekro SITE MANAGER: Jeff Kindley

PROJECT NO.: 115-440380 PROJECT NAME: Cekro / Rock Queen #7

| LAB I.D. NUMBER | DATE | TIME | MATRIX | COMP. | GRAB | SAMPLE IDENTIFICATION | NUMBER OF CONTAINERS FILTERED (Y/N) | PRESERVATIVE METHOD | | | | | BTEX 8021B | TPH 8015 MOD. TX1005 (Ext. to C95) | PAH 8270 | RCRA Metals Ag As Ba Cd Cr Pb Hg Se | TCLP Metals Ag As Ba Cd Vr Pd Hg Se | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC.MS Vol. 8240/8260/824 | GC.MS Semi. Vol. 8270/825 | PCB's 8080/608 | Pest. 808/608 | Chloride | Gamma Spec. | Alpha Beta (Air) | PLM (Asbestos) | Major Anions/Cations, pH, TDS | | | | | | |
|-----------------|----------|------|--------|-------|------|-----------------------|-------------------------------------|---------------------|------|-----|------|---|------------|------------------------------------|----------|-------------------------------------|-------------------------------------|----------------|---------------------|-----|--------------------------|---------------------------|----------------|---------------|----------|-------------|------------------|----------------|-------------------------------|--|--|--|--|--|--|
| | | | | | | | | HCL | HNO3 | ICE | NONE | | | | | | | | | | | | | | | | | | | | | | | | |
| 281139 | 12/28/11 | 1325 | W | | X | MW-4 | 4 | N | X | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| 140 | | 1355 | | | | MW-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 141 | | 1345 | | | | MW-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 142 | | 1335 | | | | MW-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RELINQUISHED BY: (Signature) [Signature] Date: 12/28/11 Time: 1140

RECEIVED BY: (Signature) [Signature] Date: 12/31/11 Time: 1140

SAMPLED BY: (Print & Initial) JT/SA Date: _____ Time: _____

SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL #: _____
 HAND DELIVERED UPS OTHER: _____

RECEIVING LABORATORY: Tetra ADDRESS: _____ CITY: Midland STATE: TX ZIP: _____ CONTACT: _____ PHONE: _____

RECEIVED BY: (Signature) [Signature] DATE: 11/1/11 TIME: 8:40

TETRA TECH CONTACT PERSON: Jeff Kindley Results by: _____ RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: Intact REMARKS: 39°C Midland-Chloride Dubbock - BTEX 25 ZN003964 1.9/2.1° 3.9°

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WO # 11103124

Analysis Request of Chain of Custody Record

PAGE: 1 of 1



TETRA TECH
 1910 N. Big Spring St.
 Midland, Texas 79705
 (432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
 (Circle or Specify Method No.)

CLIENT NAME: Cetro

SITE MANAGER: Jeff Kindley

PROJECT NO.: 115-140330

PROJECT NAME: Cetro / Rock Queen #7

| LAB I.D. NUMBER | DATE | TIME | MATRIX | COMP | GRAB | SAMPLE IDENTIFICATION | NUMBER OF CONTAINERS FILTERED (Y/N) | | | | PRESERVATIVE METHOD | OTHER ANALYTES |
|-----------------|----------|------|--------|------|------|-----------------------|-------------------------------------|------|-----|------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | | | | | HCL | HNO3 | ICE | NONE | | |
| 281139 | 12/20/11 | 1525 | | | X | MW-4 | 4 | N | X | | | BTEX 8021B TPH 8015 MOD. TX1005 (Ext. to C95) PAH 8270 RCRA Metals Ag As Ba Cd Cr Pb Hg Se TCLP Metals Ag As Ba Cd Vr Pd Hg Se TCLP Volatiles TCLP Semi Volatiles FCI GC/MS Vol. 8240/8280/824 GC/MS Semi. Vol. 8270/825 PCB's 8080/808 Pest. 809/808 Chloride Gamma Spec. Alpha Beta (Air) PLM (Asbestos) Major Anions/Cations, pH, TDS 504, TDS - Added 11/16/11 per learned F. |
| 140 | | 1355 | | | | MW-2 | | | | | | |
| 141 | | 1345 | | | | MW-1 | | | | | | |
| 142 | | 1335 | | | | MW-3 | | | | | | |

RELINQUISHED BY: (Signature) [Signature] Date: 12/21/11 Time: 1140

RELINQUISHED BY: (Signature) [Signature] Date: 10/21/11 Time: 1600

RELINQUISHED BY: (Signature) _____ Date: _____ Time: _____

RECEIVED BY: (Signature) [Signature] Date: 10/21/11 Time: 1140

RECEIVED BY: (Signature) _____ Date: _____ Time: _____

RECEIVED BY: (Signature) [Signature] Date: 11/1/11 Time: 8:40

SAMPLED BY: (Print & Initial) JL/SA Date: _____ Time: _____

SAMPLE SHIPPED BY: (Circle) FEDEX AIRBILL #: _____
HAND DELIVERED BUS _____
 UPS _____ OTHER: _____

TETRA TECH CONTACT PERSON: Jeff Kindley Results by: _____

RUSH Charges Authorized: Yes _____ No _____

RECEIVING LABORATORY: Trax

ADDRESS: _____ STATE: TX ZIP: _____

CITY: Midland PHONE: _____

RECEIVED BY: (Signature) [Signature] DATE: 11/1/11 TIME: 8:40

SAMPLE CONDITION WHEN RECEIVED: Intact REMARKS: 39°C Midland-Chloride Lubbock - BTEX LS ZN003964 11/2/10 3.9°

Please fill out all copies - Laboratory retains Yellow copy - Return Original copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy

NOV - 4 2011 EP KB 11/20/11