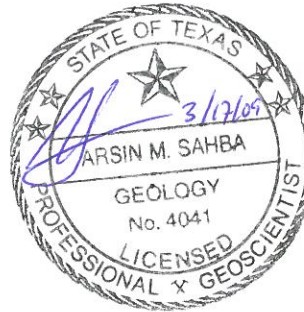


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March 17, 2009

Mr. Bill Renfro, P.G.
Railroad Commission of Texas
William B. Travis Building
1701 North Congress
PO Box 12967
Austin, Texas 78711-2967

Re: January 2009 Wendkirk BMP Sampling Event Results, Upper Colorado River Segment 1426 Downstream from E. V. Spence Reservoir, Wendkirk Oil Field, Coke County, Texas

Dear Mr. Renfro:

The purpose of this report is to present the results of the Best Management Practice (BMP) monitoring activities conducted during January 2009 at the Wendkirk Oil Field in Coke County, Texas. The Railroad Commission of Texas (RRC) requested that TRC perform additional sampling to monitor the affect of the implemented BMP and obtain additional data for temporal evaluation.

INTRODUCTION

The RRC, Oil and Gas Division, received a Section 319 Non-Point Source (NPS) grant from the United States Environmental Protection Agency (USEPA) through the Texas Commission on Environmental Quality (TCEQ) to determine if oil and gas operations in the Wendkirk Oil Field are contributing to the high saline water in the Colorado River. The objective of the grant was to assess and determine the source(s) leading to the elevated salinity in the Machae Creek Area of the Colorado River, develop BMPs to reduce salinity, and implement the BMPs. The Wendkirk Oil Field is located at the downstream extent of the Machae Creek Area as illustrated in Figure 1.

Previous site investigations conducted under the NPS grant indicated that the Mays-01 water well may be a potential vertical conduit for saline impacts from the Coleman Junction formation, which is approximately 2,500 feet below ground surface and contains predominantly high sodium/chloride water. Although data collected from the Mays-01 water well were inconclusive in verifying the water well as a conduit, the well was plugged by the RRC on July 9, 2008, as a

recommended BMP in order to prevent any potential influence from deeper formations via the Mays-01 well. During the plugging of the Mays-01 water well, it was determined that the total depth of the well (190 feet) was not sufficient to provide a conduit to the Coleman Junction formation. The Mays-01 water well does not appear to be a pathway for saline water to migrate from deeper formations.

The objective of the January 2009 monitoring event was to obtain additional groundwater and surface water analytical data to supplement the previous site investigation results and determine the affects, if any, of the BMP (plugging of Mays-01 well). This report presents the data collected from the January 2009 monitoring event.

GROUNDWATER AND SURFACE WATER MONITORING

TRC conducted groundwater monitoring activities at the Wendkirk Oil Field from January 19 through 22, 2009. Field activities were completed in accordance with the Work Order submitted to the RRC by TRC on November 7, 2008. TRC personnel coordinated field activities with the RRC San Angelo District 7C office to obtain access to sample locations which are located on private property.

The BMP sampling event was performed in accordance with previously developed site investigation Work Plans and the project-specific Quality Assurance Project Plan (QAPP). Completed field activities included synoptic well gauging, surface water sampling, groundwater sampling, seep/spring water sampling, Quality Assurance/Quality Control (QA/QC) sampling, and managing investigation-derived waste (IDW). Sampling was completed in accordance with the Work Order with the exception that a water sample was not collected from upstream seep location 4314102 because it was dry when the sampling event was completed. A summary of the sample locations, sample identifications, sample dates, and laboratory analyses are provided in Table 1. The surface water, groundwater, seep/spring water sample locations are depicted in Figure 2.

A synoptic fluid level gauging event was conducted prior to groundwater sampling. The wells were purged and sampled using disposable polyvinyl chloride (PVC) bailers. Field parameters including temperature, conductivity, pH, total dissolved solids (TDS), and oxidation-reduction potential (ORP) were collected during well purging and from each seep/surface water sample location. The field parameter results are provided in Attachment 1.

Water samples collected from surface water, groundwater, and seep/spring locations were submitted for the following laboratory analyses:

- Anions (chloride, sulfate, bromide) by EPA Method E300
- Cations (calcium, sodium, magnesium, potassium) by EPA Method SW6020



- Alkalinity (carbonate, bicarbonate) by EPA Method M2320 B
- Specific Conductance by EPA Method 2510 B
- TDS by EPA Method M2540C

Copies of the DHL Laboratory analytical reports and chain-of-custody forms are provided in Attachment 2.

MONITORING RESULTS

Fluid Level Measurements

Twenty monitoring wells (MW-1 through MW-20), one observation well (OW-1), three water wells (Mays-02, Milford-01, Milford-02), and one river gauging station (RG-2) were synoptically gauged on February 19, 2009. Table 2 presents the monitoring well gauging data including ground elevation, top of well casing elevation, water level measurement (date of measurement, depth to water, and total depth), and calculated water elevation. The groundwater potentiometric map for January 2009 is presented as Figure 3.

South of the Colorado River, groundwater flow is to the northwest towards the river. North of the Colorado River, groundwater flow is to the southeast towards the river. Groundwater mounds were observed at monitoring wells MW-16 and MW-20. The mounds indicate the presence of a localized groundwater recharge source in these areas. The groundwater potentiometric maps for August 2008 and January 2009 are generally similar in that groundwater flow is towards the Colorado River. The groundwater elevations are generally consistent with previous gauging events.

Surface Water Analytical Results

During the January 2009 monitoring event, surface water samples were collected from six river segment locations (W-RS-12, W-RS-13, W-RS-14, W-RS-15, W-RS-16, and W-RS-17). The surface water analytical results are summarized in Table 3. The calcium, sodium, sulfate, chloride, conductivity, and TDS concentrations along the Colorado River between river segments 12 and 17 are presented in Figure 4.

Prior to the completion of this sample event, surface water samples had been collected from the Colorado River in July 2006, August 2006, and April 2007. The January 2009 surface water sample results were compared to the previous results to evaluate changes in salinity over time. The low concentrations observed during the August 2006 were attributed to a precipitation event that preceded the sampling event, which diluted the analyte concentrations due to an increase in the volume of surface water discharged into the Colorado River relative to the volume of

groundwater base flow. A comparison of the January 2009 to the 2006 and 2007 surface water sample results indicated the following:

- During all sampling events, the chloride, TDS, sodium, and electrical conductivity concentrations steadily increased from river segment 12 to river segment 17.
- Chloride, TDS, and sodium concentrations at all six river segments were 46% and 83% higher than the July 2006 and April 2007 sampling events.

The monthly rainfall gauge levels for the City of San Angelo were obtained from the National Weather Service (NWS)/National Oceanic and Atmospheric Administration (NOAA) online database and are provided in Attachment 3. Between November 2008 and January 2009, the region received approximately 0.33 inches of precipitation. Precipitation amounts preceding previous sampling events ranged from 0.87 inches in July 2006 to 4.87 inches in August 2006. The lower precipitation preceding the January 2009 event may explain the higher concentrations of salinity in surface water.

Groundwater Analytical Results

During the January 2009 monitoring event, groundwater samples were collected from twenty monitoring wells (MW-01 through MW-20), one observation well (OW-01), and one water well (Mays-02). The groundwater analytical results are summarized in Table 3. The chloride concentrations from January 2009 and previous monitoring events are presented in Figure 5.

The January 2009 analytical results were relatively similar compared to previous sampling events completed in July 2008 and August 2008. Chloride concentrations have ranged from 945 mg/L to 1,720 mg/L at monitoring well MW-20, which indicates groundwater has not been impacted from oil field activities upgradient of MW-20. However, analytical results from the Mays-02 water well, located approximately 600 feet northwest (downgradient) of monitoring well MW-20, indicated the presence of elevated chloride (17,700 mg/L) concentrations. The difference in these concentrations indicates the potential presence of another salinity source located near the Mays-02 water well, and/or upgradient from the Mays-02 water well and well MW-18.

A trend analysis was performed on the wells located near the potential source area (i.e., Mays-01 water well) where the BMP was implemented; the results are presented in Graphs 1 through 9. The graphs present concentrations for chloride, TDS, and sodium, and groundwater elevation. A brief discussion of the trends observed in the graphs is provided below.

- Upgradient monitoring wells MW-06, MW-17, MW-19, and MW-20: Concentrations of chloride, TDS, and sodium have remained relatively consistent with the exception of well

MW-19. The chloride, TDS, and sodium concentration at well MW-19 have steadily decreased between July 2007 and January 2009.

- Source area observation well OW-1: The chloride, TDS, and sodium concentrations have remained relatively consistent between August 2008 and January 2009.
- Downgradient monitoring wells MW-05, MW-10, MW-11, and MW-12: Although salinity concentrations have increased and decreased at these locations, the chloride, TDS, and sodium concentrations have remained relatively consistent between August 2006 and January 2009.

Delineation of elevated salinity concentrations has not been achieved in the southwest portion of the site near well MW-18 and Mays-02 water well. Limited analytical data is available for these wells because sampling was initiated in 2007 and 2008. Salinity concentrations at these locations have remained relatively consistent and are elevated as compared to the majority of the other wells located in the Wendkirk Oil Field with the exception of the area surrounding well OW-1. The results indicate that a potential salinity source(s) may be located upgradient from these well locations.

Seep Water Analytical Results

Seep water samples were collected from the Mays Ranch Seep and Spring 4314102. As observed during previous monitoring events, the upstream location of Spring 4314102 (east) was dry, therefore no sample was collected from that location. The seep water analytical results are summarized in Table 3.

Chloride, TDS, and sodium concentrations in January 2009 were consistent with past monitoring events for both seep samples.

Quality Assurance Project Plan

The analytical results were reviewed for compliance with the QA/QC criteria established in the QAPP for this site. The QA/QC analytical data review is presented in Attachment 4. QA/QC data associated with laboratory measurements indicate that measurement data are defensible and that measurement data reliability is generally within expected limits of sampling and analytical error given the data interpretation issues identified in the evaluation.

INVESTIGATION-DERIVED WASTE MANAGEMENT

The July 2008, August 2008, and January 2009 sampling events generated approximately 500-gallons of investigation-derived waste (IDW) purge and decontamination water. The IDW water was temporarily stored in 55-gallon drums and a 200-gallon polyethylene tank that were staged near well MW-17. The IDW water is pending offsite disposal as RRC exempt waste.



TRC will coordinate with the RRC San Angelo District 7C office for the removal of the IDW from the site.

CONCLUSIONS

The following conclusions were developed based on the previous site investigation results and the January 2009 groundwater monitoring results:

- The groundwater elevations are generally consistent with previous gauging events. Groundwater mounds were observed at monitoring wells MW-16 and MW-20 in August 2008 and January 2009. The mounds indicate the presence of a localized groundwater recharge zone in these areas.
- Surface water samples collected along the Colorado River provide no indication of specific source(s) of salinity located near the river. Consistent with previous surface water data collected adjacent to the Wendkirk Oil Field, salinity concentrations steadily increased from Colorado River segments 12 through 17. This suggests that saline groundwater discharging into the Colorado River as base flow is the primary source of salinity, and that the discharge occurs over a large portion of segments 12 to 17 rather than at a discrete point.
- January 2009 concentrations of chloride, TDS, and sodium in surface water increased between 46% and 83% as compared to the July 2006 and April 2007 monitoring events. The elevated salinity concentrations encountered during the January 2009 sampling event may be attributed to less precipitation in the region as compared to the July 2006, August 2006, and April 2007 seasonal monitoring events. The decrease in precipitation and surface runoff would lead to an increase in base flow conditions (i.e., groundwater discharge) and a corresponding increase in salinity.
- Salinity concentrations in groundwater samples collected in January 2009 were consistent with past monitoring events with the exception at well MW-19 where the chloride, TDS, and sodium concentrations have steadily decreased between July 2007 and January 2009.
- Salinity concentrations in seep/spring samples collected in January 2009 were consistent with past monitoring events.
- A review of the recent and historical analytical results does not indicate that that plugging of Mays-01 water well has decreased salinity concentrations in the wells surrounding Mays-01; however, additional monitoring may be needed to observe if a change in conditions occurs.
- Elevated salinity concentrations have consistently been observed along the southwest portion of the Wendkirk Oil Field where delineation has not been achieved. Additional monitoring wells may be needed to investigate the source(s) of the elevated salinity, particularly upgradient of well MW-18 and Mays-02 water well.

Mr. Bill Renfro
March 17, 2009
Page 7

Please do not hesitate to contact us at 512-329-6080 regarding questions or comments.

Sincerely,

A handwritten signature in dark ink, appearing to be 'AS' with a long horizontal stroke extending to the right.

Arsin M. Sahba, P.G.
Senior Project Manager/Senior Geologist

cc: Brian Floyd, RRC District 7C, San Angelo, Texas
Matt Webre, TRC, Austin, Texas
Chris Mansuri, TRC, Austin, Texas

FIGURES

Figure 1	Site Location Map
Figure 2	Site Map
Figure 3	Groundwater Potentiometric Surface Map, January 2009
Figure 4	Surface Water Sampling - Colorado River Segments 12 through 17, January 2009
Figure 5	Chronological Chloride Concentration Map

TABLES

Table 1	Summary of Seasonal Sample Locations
Table 2	Fluid Level Gauging Data
Table 3	Surface Water, Groundwater, Seep, and Produced Water Analytical Results

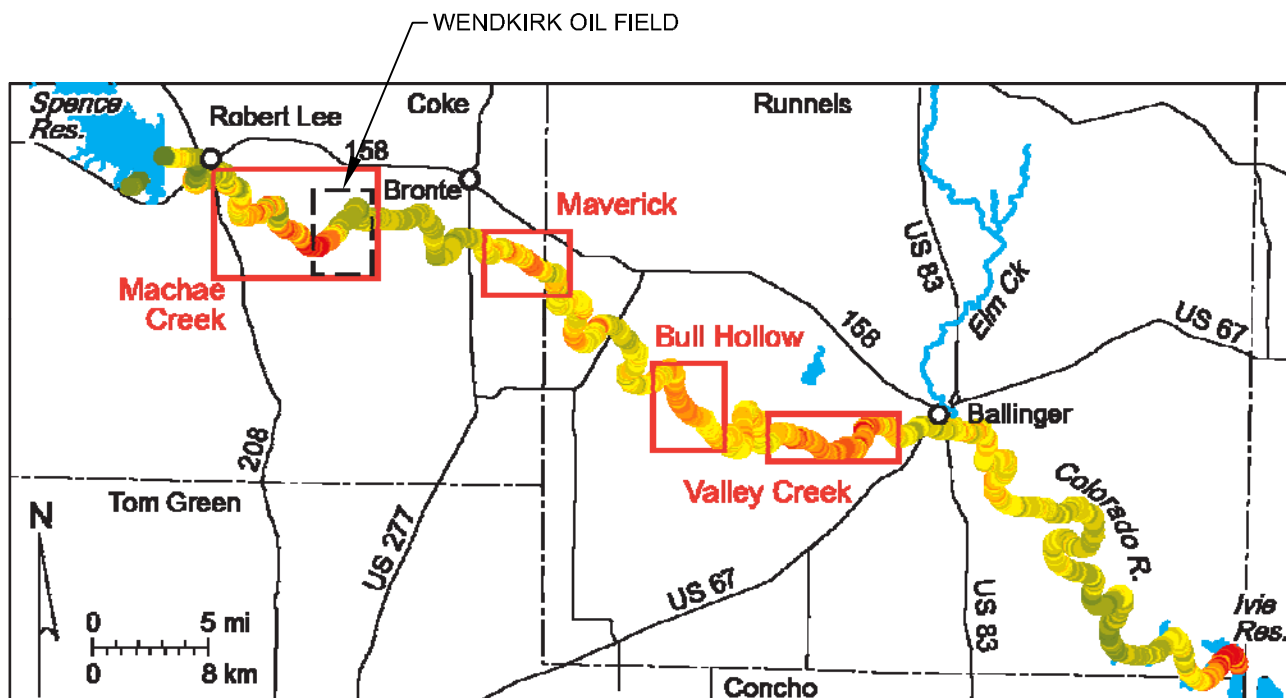
GRAPHS

Graph 1	MW-05 Concentrations and Groundwater Elevations
Graph 2	MW-06 Concentrations and Groundwater Elevations
Graph 3	MW-10 Concentrations and Groundwater Elevations
Graph 4	MW-11 Concentrations and Groundwater Elevations
Graph 5	MW-12 Concentrations and Groundwater Elevations
Graph 6	MW-17 Concentrations and Groundwater Elevations
Graph 7	MW-19 Concentrations and Groundwater Elevations
Graph 8	MW-20 Concentrations and Groundwater Elevations
Graph 9	OW-01 Concentrations and Groundwater Elevations

ATTACHMENTS

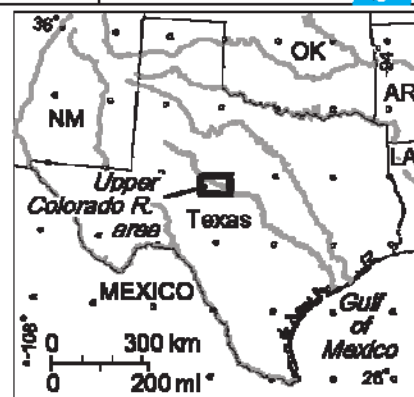
Attachment 1	Field Forms
Attachment 2	Laboratory Analytical Data Reports and Chain-of-Custody Forms
Attachment 3	Precipitation Data
Attachment 4	Analytical Data Review/Data Validation Checklist

FIGURES



Apparent conductivity at 1350 Hz, mS/m (standard deviation)

- | | |
|-----------------------------|-----------------------------|
| ● 0 to 14 (< -1.75) | ● 137 to 161 (0.75 to 1.25) |
| ● 14 to 38 (-1.75 to -1.25) | ● 161 to 185 (1.25 to 1.75) |
| ● 38 to 63 (-1.25 to -0.75) | ● 186 to 210 (1.75 to 2.25) |
| ● 63 to 87 (-0.75 to -0.25) | ● 210 to 235 (2.25 to 2.75) |
| ● 87 to 112 (-0.25 to 0.25) | ● 235 to 455 (> 2.75) |
| ● 112 to 137 (0.25 to 0.75) | |
- Elevated conductivity area



NOTE:

APPARENT CONDUCTIVITY MEASURED AT 1350 HZ ALONG THE AXIS OF THE COLORADO RIVER DURING THE BEG AIRBORNE GEOPHYSICAL SURVEY IN FEBRUARY 2005. ELEVATED CONDUCTIVITY SEGMENTS INDICATING LOCATIONS OF POSSIBLE SALINE-WATER INFLOW ARE BOUNDED BY RED RECTANGLES. THE DASHED BOX NEAR BRONTE ENCLOSSES THE WENDKIRK OIL FIELD.

SOURCE:

SURFACE AND BOREHOLE GEOPHYSICAL INVESTIGATIONS IN THE WENDKIRK OIL FIELD AREA, COKE COUNTY, TEXAS (BEG, 2006).

SITE LOCATION MAP

RAILROAD COMMISSION OF TEXAS
WENDKIRK OIL FIELD

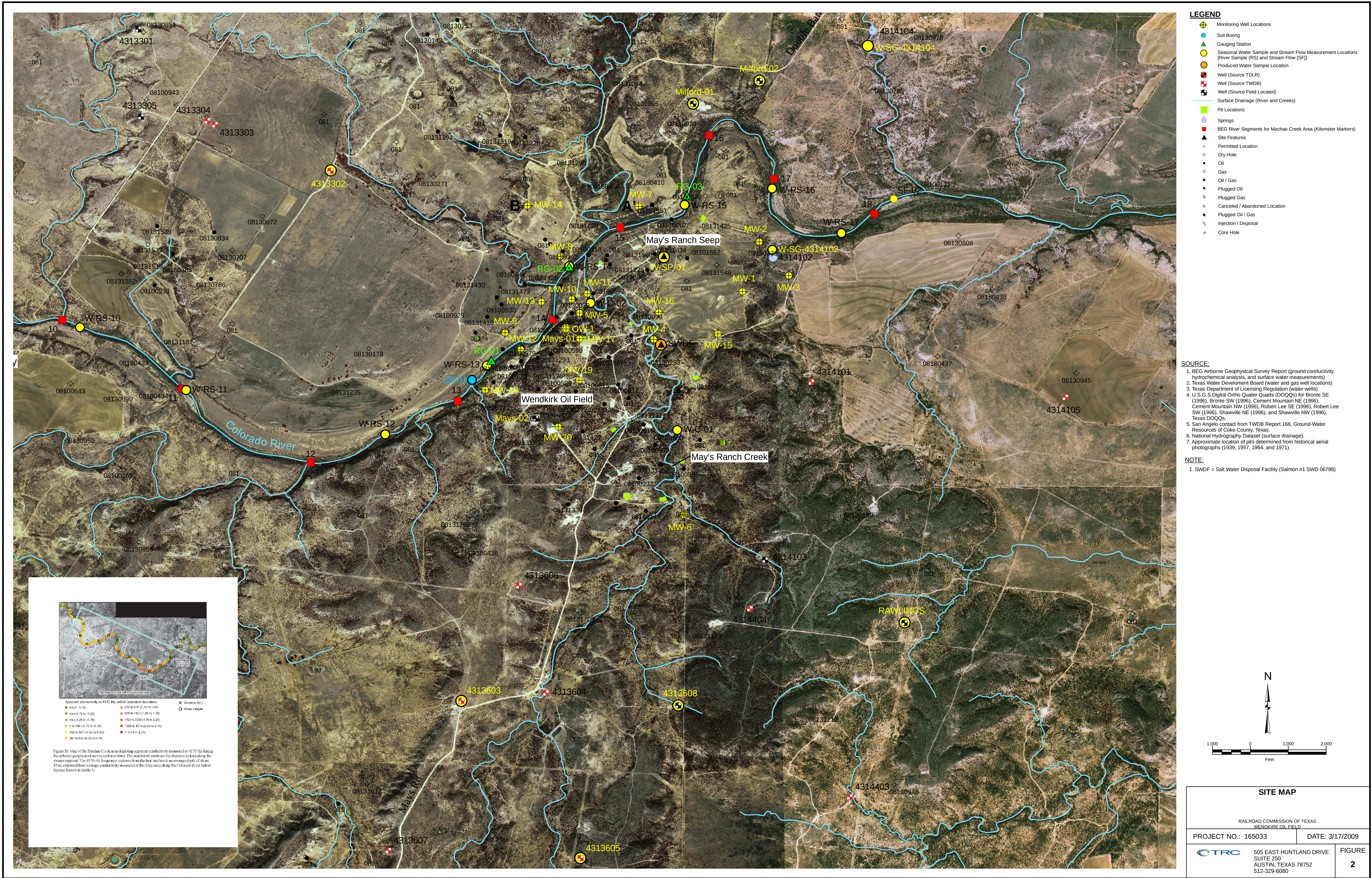
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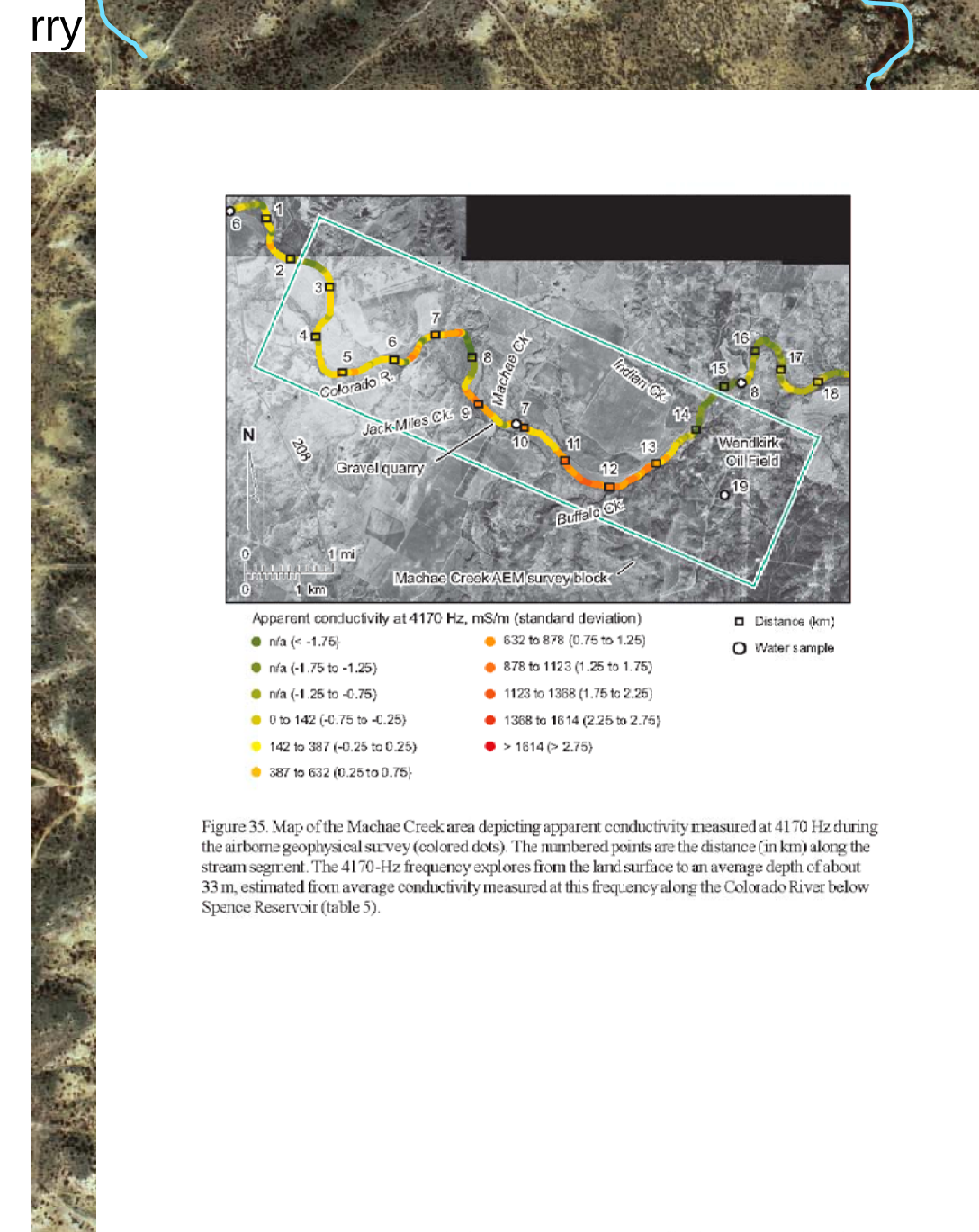


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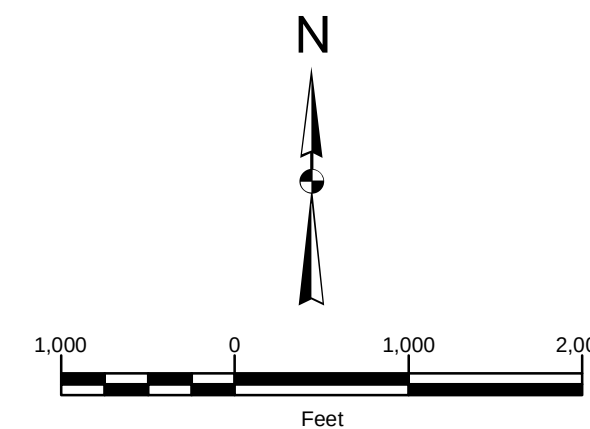
FIGURE

1



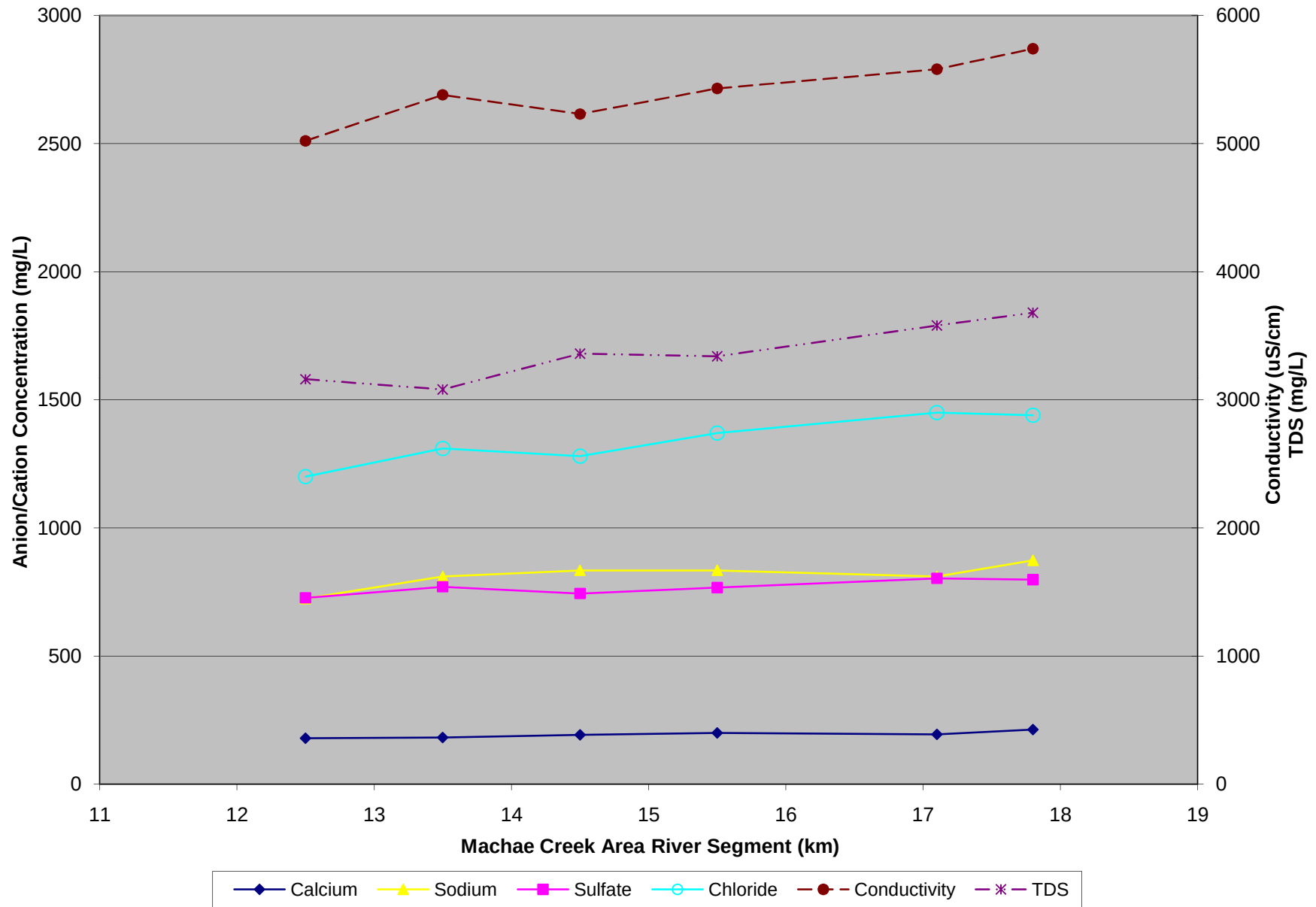


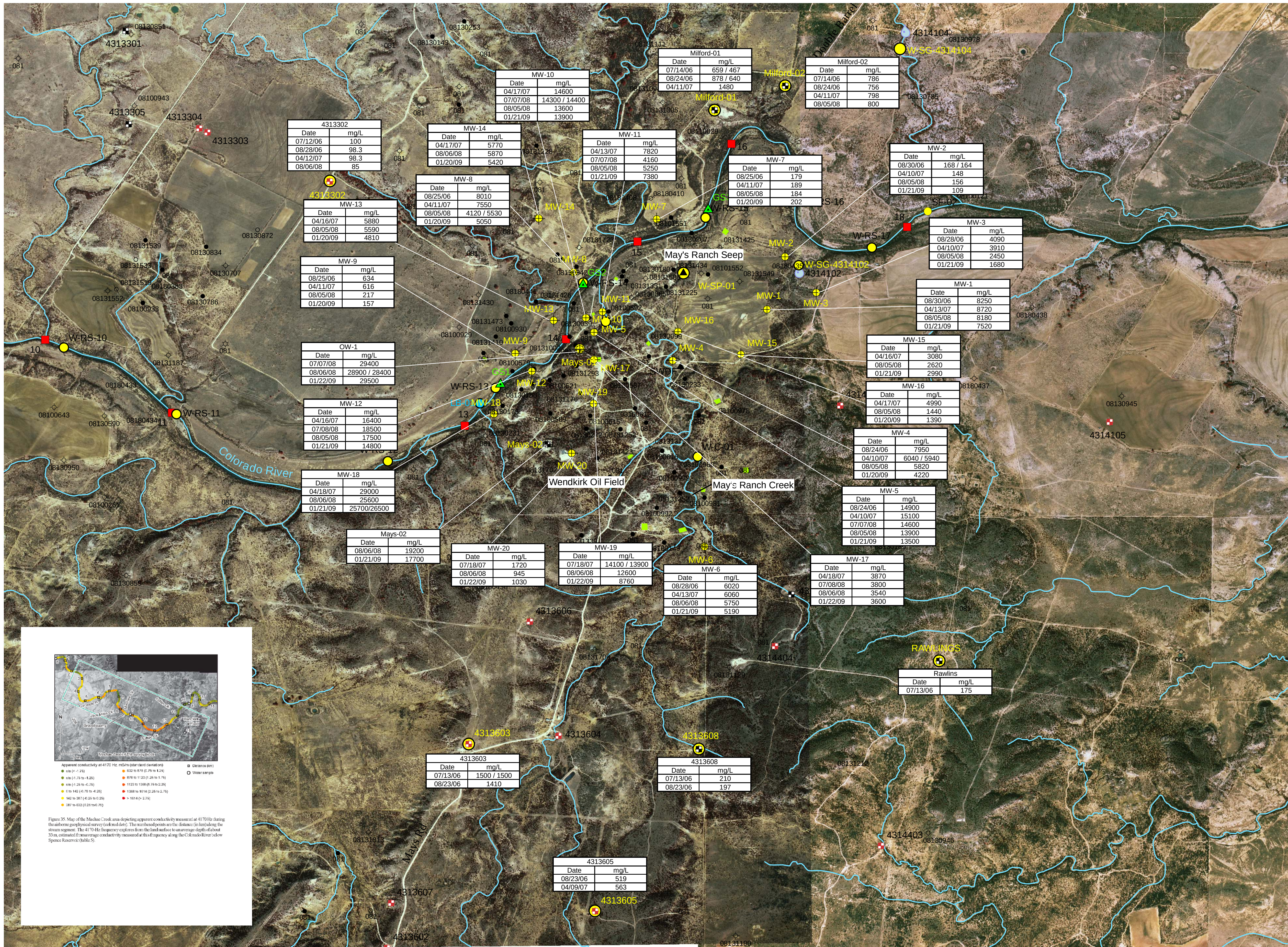
- SOURCE:**
1. BEG Airborne Geophysical Survey Report (ground conductivity, hydrochemical analysis, and surface water measurements)
 2. Texas Water Development Board (water and gas well locations)
 3. Department of Licensing Regulation (water wells)
 4. U.S.G.S. Digital Ortho Quarter Quads (DOQQs) for Bronte SE (1996), Bronte SW (1996), Cement Mountain NE (1996), Cement Mountain NW (1996), Robt Lee SE (1996), Robt Lee SW (1996), Shawville NE (1996), and Shawville NW (1996), Texas DOQQs.
 5. San Angelo contact from TWDB Report 166, Ground-Water Resources of Coke County, Texas.
 6. National Hydrography Dataset (surface drainage).
 7. Approximate location of pits determined from historical aerial photographs (1939, 1957, 1964, and 1971)
- NOTE:**
1. SWDF = Salt Water Disposal Facility (Salmon #1 SWD 06788)
 2. NGF = Not Gauged. River gauges RG-01 and RG-03 have been damaged.



RAILROAD COMMISSION OF TEXAS WENDKIRK OIL FIELD		
PROJECT NO.: 165033	DATE: 3/17/2009	
	505 EAST HUNTLAND DRIVE SUITE 250 AUSTIN, TEXAS 78752 512-329-6080	FIGURE 3

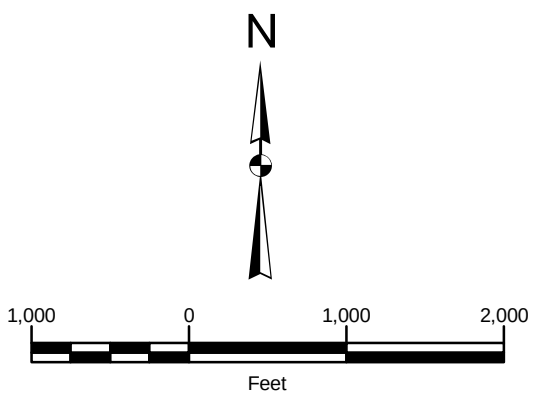
**Figure 4. Surface Water Sampling - Colorado River Segments 12 through 17
January 2009**





- LEGEND**
- Monitoring Well Locations
 - Soil Boring
 - Gauging Station
 - Seasonal Water Sample and Stream Flow Measurement Locations (River Sample (RS) and Stream Flow (SF))
 - Well (Source TDLR)
 - Well (Source TWDB)
 - Well (Source Field Located)
 - Surface Drainage (River and Creeks)
 - Pit Locations
 - Springs
 - BEG River Segments for Machae Creek Area (Kilometer Markers)
 - Site Features
 - Permitted Location
 - Dry Hole
 - Oil
 - Gas
 - Oil / Gas
 - Plugged Oil
 - Plugged Gas
 - Canceled / Abandoned Location
 - Plugged Oil / Gas
 - Injection / Disposal
 - Core Hole

- SOURCE:**
- BEG Airborne Geophysical Survey Report (ground conductivity, hydrochemical analysis, and surface water measurements)
 - Texas Water Development Board (water and gas well locations)
 - Texas Department of Licensing Regulation (water wells)
 - U.S.G.S.Digital Ortho Quarter Quads (DOQQs) for Bronte SE (1996), Bronte SW (1996), Cement Mountain NE (1996), Cement Mountain NW (1996), Rober Lee SE (1996), Robert Lee SW (1996), Shawville NE (1996), and Shawville NW (1996), Texas DOQQs
 - San Angelo contact from TWDB Report 166, Ground-Water Resources of Coke County, Texas.
 - National Hydrography Dataset (surface drainage).
 - Approximate location of pits determined from historical aerial photographs (1939, 1957, 1964, and 1971)
- NOTE:**
- SWDF = Salt Water Disposal Facility (Salmon #1 SWD 0678)



CHRONOLOGICAL CHLORIDE CONCENTRATION MAP

RAILROAD COMMISSION OF TEXAS
WENDKIRK OIL FIELD

PROJECT NO.: 165033 DATE: 3/17/2009

TRC 505 EAST HUNTLAND DRIVE
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512-329-6080

FIGURE
5

TABLES

Table 1. Summary of Seasonal Sample Locations

Seasonal Sample Areas	Sample Locations	Sample ID	Sample Date(s)	Laboratory Analysis
Colorado River	Segments 3, 7, 9 through 15, 17	W-RS-03 W-RS-07 W-RS-09 W-RS-10 W-RS-11 W-RS-12 W-RS-13 W-RS-14 W-RS-15 W-RS-16 W-RS-17	July 2006, August 2006, April 2007	Calcium, Chloride, Sodium, Sulfate, TDS, BTEX, TPH
	Segment 8	W-RS-08	July 2006	
	Segments 12 through 17	W-RS-12 W-RS-13 W-RS-14 W-RS-15 W-RS-16 W-RS-17	January 2009	Calcium, Sodium, Magnesium, Potassium, Chloride, Sulfide, Bromide, TDS, Alkalinity, Electrical Conductivity
Surface Water (Located in Wendkirk Oil Field)	May's Ranch Creek (upstream)	W-C-01	July 2006, August 2006, April 2007	Calcium, Chloride, Sodium, Sulfate, TDS
	May's Ranch Creek (downstream)	W-C-02	April 2007	
Surface Water (Not associated with Wendkirk Oil Field)	SANCO Quarry	W-Q-01	July 2006, August 2006, April 2007	
	North of River Segments 7 and 8	W-O-01	July 2006	Not Applicable – Field Chloride Test Kit
Spring Water	Spring 4314102 (west)	W-SG-4314102-01	July 2006, August 2006, April 2007	Calcium, Chloride, Sodium, Sulfate, TDS, BTEX, TPH
			January 2009	Calcium, Sodium, Magnesium, Potassium, Chloride, Sulfide, Bromide, TDS, Alkalinity, Electrical Conductivity
	Spring 4314102 (east)	W-SG-4314102-02	April 2007	Calcium, Chloride, Sodium, Sulfate, TDS
	Spring 4314104	W-SG-4314104	July 2006, August 2006, April 2007	Calcium, Chloride, Sodium, Sulfate, TDS, BTEX, TPH
	May's Ranch Seep	W-SP-01	July 2006, August 2006, April 2007	Calcium, Chloride, Sodium, Sulfate, TDS, BTEX, TPH
			January 2009	Calcium, Sodium, Magnesium, Potassium, Chloride, Sulfide, Bromide, TDS, Alkalinity, Electrical Conductivity

Table 1. Summary of Seasonal Sample Locations

Seasonal Sample Areas	Sample Locations	Sample ID	Sample Date(s)	Laboratory Analysis
Groundwater	May's Ranch Water Well	W-WW-Mays-01 Water well Mays-01 (73.5') Water well Mays-01 (98.5')	August 2006, April 2007, June 2007	Calcium, Chloride, Sodium, Sulfate, TDS, BTEX, TPH
		W-WW-081 W-WW-Mays-02	August 2008, January 2009	Calcium, Sodium, Magnesium, Potassium, Chloride, Sulfide, Bromide, TDS, Alkalinity, Electrical Conductivity
	Milford Water Well	W-WW-Milford-01	July 2006, August 2006, April 2007	Calcium, Chloride, Sodium, Sulfate, TDS, BTEX, TPH
		W-WW-Milford-02		
	Rawlin's Water Well	W-WW-Rawlins	July 2006	Calcium, Sodium, Magnesium, Potassium, Chloride, Sulfide, Bromide, TDS, Alkalinity, Electrical Conductivity
	Water Well 4313302	W-WW-4313302	July 2006, August 2006, April 2007	Calcium, Chloride, Sodium, Sulfate, TDS, BTEX, TPH
	Water Well 4313605	W-WW-4313605	August 2006, April 2007	
	Water Well 4313603	W-WW-4313603	July 2006, August 2006	
	Water Well 4313608	W-WW-4313608		
	Wendkirk Oil Field Monitoring Wells	W-MW-05 W-MW-10 W-MW-11 W-MW-12 W-MW-17 W-0B-01	July 2008	Calcium, Sodium, Magnesium, Potassium, Chloride, Sulfide, Bromide, TDS, Alkalinity, Electrical Conductivity
		W-MW-01 W-MW-02 W-MW-03 W-MW-04 W-MW-05 W-MW-06 W-MW-07 W-MW-08 W-MW-09 W-MW-10 W-MW-11 W-MW-12 W-MW-13 W-MW-14 W-MW-15 W-MW-16 W-MW-17 W-MW-18 W-MW-19 W-MW-20 W-OW-01	August 2008, January 2009	Calcium, Sodium, Magnesium, Potassium, Chloride, Sulfide, Bromide, TDS, Alkalinity, Electrical Conductivity

Table 2. Fluid Level Gauging Data

Location ID	Ground Elevation (feet)	Top-of-Casing Elevation (feet)	Date Water Level Measured	Total Depth of Well (feet btoc)	Depth to Water (feet btoc)	Water Elevation (ft AMSL)
MW-01	1779.45	1782.62	8/30/2006	43.25	24.16	1758.46
MW-01	1779.45	1782.62	10/26/2006	NM	23.97	1758.65
MW-01	1779.45	1782.62	4/20/2007	NM	25.92	1756.70
MW-01	1779.45	1782.62	8/4/2008	43.10	25.16	1757.46
MW-01	1779.45	1782.62	1/19/2009	NM	25.17	1757.45
MW-02	1771.43	1775.03	8/30/2006	39.05	27.02	1748.01
MW-02	1771.43	1775.03	10/26/2006	NM	27.37	1747.66
MW-02	1771.43	1775.03	4/20/2007	NM	27.98	1747.05
MW-02	1771.43	1775.03	8/4/2008	38.44	27.68	1747.35
MW-02	1771.43	1775.03	1/19/2009	NM	27.68	1747.35
MW-03	1773.61	1776.09	8/30/2006	40.20	21.69	1754.40
MW-03	1773.61	1776.09	10/26/2006	NM	21.45	1754.64
MW-03	1773.61	1776.09	4/20/2007	NM	21.73	1754.36
MW-03	1773.61	1776.09	6/20/2007	NM	18.35	1757.74
MW-03	1773.61	1776.09	8/4/2008	39.59	21.30	1754.79
MW-03	1773.61	1776.09	1/19/2009	NM	20.90	1755.19
MW-04	1772.28	1774.54	8/30/2006	36.51	16.75	1757.79
MW-04	1772.28	1774.54	10/26/2006	NM	16.91	1757.63
MW-04	1772.28	1774.54	4/20/2007	NM	17.47	1757.07
MW-04	1772.28	1774.54	8/4/2008	37.71	16.76	1757.78
MW-04	1772.28	1774.54	1/19/2009	NM	16.41	1758.13
MW-05	1760.71	1763.19	8/30/2006	35.15	17.23	1745.96
MW-05	1760.71	1763.19	10/26/2006	NM	16.43	1746.76
MW-05	1760.71	1763.19	4/20/2007	NM	16.65	1746.54
MW-05	1760.71	1763.19	6/20/2007	NM	15.80	1747.39
MW-05	1760.71	1763.19	7/17/2007	NM	15.80	1747.39
MW-05	1760.71	1763.19	7/7/2008	35.02	16.21	1746.98
MW-05	1760.71	1763.19	8/4/2008	NM	16.32	1746.87
MW-05	1760.71	1763.19	1/19/2009	NM	15.91	1747.28
MW-06	1831.77	1834.47	8/30/2006	99.40	52.34	1782.13
MW-06	1831.77	1834.47	10/26/2006	NM	51.53	1782.94
MW-06	1831.77	1834.47	4/20/2007	NM	58.92	1775.55
MW-06	1831.77	1834.47	8/4/2008	96.07	52.97	1781.50
MW-06	1831.77	1834.47	1/19/2009	NM	51.57	1782.90
MW-07	1767.97	1771.10	8/30/2006	40.00	31.84	1739.26
MW-07	1767.97	1771.10	10/26/2006	NM	31.07	1740.03
MW-07	1767.97	1771.10	4/20/2007	NM	32.32	1738.78
MW-07	1767.97	1771.10	8/4/2008	39.72	29.45	1741.65
MW-07	1767.97	1771.10	1/19/2009	NM	29.56	1741.54
MW-08	1777.30	1780.69	8/30/2006	62.12	33.13	1747.56
MW-08	1777.30	1780.69	10/26/2006	NM	32.86	1747.83
MW-08	1777.30	1780.69	4/20/2007	NM	33.32	1747.37
MW-08	1777.30	1780.69	8/4/2008	62.71	32.73	1747.96
MW-08	1777.30	1780.69	1/19/2009	NM	32.14	1748.55

Table 2. Fluid Level Gauging Data

Location ID	Ground Elevation (feet)	Top-of-Casing Elevation (feet)	Date Water Level Measured	Total Depth of Well (feet btoc)	Depth to Water (feet btoc)	Water Elevation (ft AMSL)
MW-09	1757.12	1759.82	8/30/2006	32.19	16.49	1743.33
MW-09	1757.12	1759.82	10/26/2006	NM	16.20	1743.62
MW-09	1757.12	1759.82	4/20/2007	NM	15.67	1744.15
MW-09	1757.12	1759.82	6/21/2007	NM	14.95	1744.87
MW-09	1757.12	1759.82	8/4/2008	30.82	16.45	1743.37
MW-09	1757.12	1759.82	1/19/2009	NM	15.79	1744.03
MW-10	1764.68	1767.02	4/20/2007	72.30	14.90	1752.12
MW-10	1764.68	1767.02	6/20/2007	72.30	14.20	1752.82
MW-10	1764.68	1767.02	7/7/2008	72.40	14.19	1752.83
MW-10	1764.68	1767.02	8/4/2008	72.66	14.34	1752.68
MW-10	1764.68	1767.02	1/19/2009	NM	14.04	1752.98
MW-11	1764.60	1766.78	4/20/2007	32.36	21.64	1745.14
MW-11	1764.60	1766.78	6/19/2007	NM	20.90	1745.88
MW-11	1764.60	1766.78	7/17/2007	NM	21.10	1745.68
MW-11	1764.60	1766.78	7/7/2008	32.33	21.59	1745.19
MW-11	1764.60	1766.78	8/4/2008	32.14	21.86	1744.92
MW-11	1764.60	1766.78	1/19/2009	NM	21.43	1745.35
MW-12	1763.54	1766.10	4/20/2007	42.39	31.18	1734.92
MW-12	1763.54	1766.10	7/7/2008	42.47	18.70	1747.40
MW-12	1763.54	1766.10	8/4/2008	NM	18.66	1747.44
MW-12	1763.54	1766.10	1/19/2009	NM	18.60	1747.50
MW-13	1759.45	1762.49	4/20/2007	27.95	17.54	1744.95
MW-13	1759.45	1762.49	7/18/2007	NM	17.35	1745.14
MW-13	1759.45	1762.49	8/4/2008	27.85	18.16	1744.33
MW-13	1759.45	1762.49	1/19/2009	NM	17.33	1745.16
MW-14	1787.19	1789.86	4/20/2007	83.30	69.59	1720.27
MW-14	1787.19	1789.86	6/21/2007	NM	27.21	1762.65
MW-14	1787.19	1789.86	8/4/2008	83.02	24.68	1765.18
MW-14	1787.19	1789.86	1/19/2009	NM	24.98	1764.88
MW-15	1790.04	1792.87	4/20/2007	43.50	25.85	1767.02
MW-15	1790.04	1792.87	8/4/2008	42.72	25.09	1767.78
MW-15	1790.04	1792.87	1/19/2009	NM	25.36	1767.51
MW-16	1785.23	1788.19	4/20/2007	38.07	32.33	1755.86
MW-16	1785.23	1788.19	8/4/2008	37.75	15.85	1772.34
MW-16	1785.23	1788.19	1/19/2009	NM	15.80	1772.39
MW-17	1824.99	1827.63	4/20/2007	73.00	65.83	1761.80
MW-17	1824.99	1827.63	7/8/2008	72.95	65.81	1761.82
MW-17	1824.99	1827.63	8/4/2008	NM	66.12	1761.51
MW-17	1824.99	1827.63	1/19/2009	NM	66.06	1761.57
MW-18	1773.10	1775.18	4/20/2007	72.29	19.88	1755.30
MW-18	1773.10	1775.18	6/19/2007	NM	22.33	1752.85
MW-18	1773.10	1775.18	8/4/2008	NM	20.25	1754.93
MW-18	1773.10	1775.18	1/19/2009	NM	20.12	1755.06

Table 2. Fluid Level Gauging Data

Location ID	Ground Elevation (feet)	Top-of-Casing Elevation (feet)	Date Water Level Measured	Total Depth of Well (feet btoc)	Depth to Water (feet btoc)	Water Elevation (ft AMSL)
MW-19	1827.10	1830.14	7/18/2007	105.50	75.70	1754.44
MW-19	1827.10	1830.14	8/4/2008	NM	75.50	1754.64
MW-19	1827.10	1830.14	1/19/2009	NM	75.22	1754.92
MW-20	1888.48	1890.90	7/18/2007	115.50	98.55	1792.35
MW-20	1888.48	1890.90	8/4/2008	NM	91.08	1799.82
MW-20	1888.48	1890.90	1/19/2009	NM	89.19	1801.71
Mays-01	1817.14	1820.66	8/30/2006	190.00	68.30	1752.36
Mays-01	1817.14	1820.66	10/26/2006	NM	68.04	1752.62
Mays-01	1817.14	1820.66	4/20/2007	NM	68.26	1752.40
Mays-01	1817.14	1820.66	6/20/2007	NM	67.27	1753.39
Mays-02	NM	NM	8/6/2008	NM	92.24	NA
Mays-02	NM	NM	1/19/2009	137.17	91.97	NA
OW-01	1816.44	1818.56	7/17/2007	97.81	66.54	1752.02
OW-01	1816.44	1818.56	7/7/2008	96.95	47.56 ⁽¹⁾	1771.00
OW-01	1816.44	1818.56	8/4/2008	NM	67.01	1751.55
OW-01	1816.44	1818.56	1/19/2009	97.81	66.74	1751.82
Milford-01	1829.94	1832.20	7/14/2006	180.50	83.15	1749.05
Milford-01	1829.94	1832.20	8/30/2006	NM	83.05	1749.15
Milford-01	1829.94	1832.20	4/20/2007	NM	82.94	1749.26
Milford-01	1829.94	1832.20	8/4/2008	NM	NM	NA
Milford-01	1829.94	1832.20	1/19/2009	NM	82.70	1749.50
Milford-02	1814.59	1816.53	7/14/2006	118.80	63.01	1753.52
Milford-02	1814.59	1816.53	8/30/2006	NM	63.30	1753.23
Milford-02	1814.59	1816.53	4/20/2007	NM	63.10	1753.43
Milford-02	1814.59	1816.53	8/5/2008	NM	63.28	1753.25
Milford-02	1814.59	1816.53	1/19/2009	NM	63.43	1753.10
RG-01	NA	1747.70	4/20/2007	NA	2.72	1744.98
RG-01	NA	1747.70	8/5/2008	NM	NM - DAMAGED	NA
RG-01	NA	1747.70	1/19/2009	NM	NM - DAMAGED	NA
RG-02	NA	1748.34	4/20/2007	NA	3.70	1744.64
RG-02	NA	1748.34	8/5/2008	NA	3.49	1744.85
RG-02	NA	1748.34	1/19/2009	NA	2.72	1745.62
RG-03	NA	1746.26	4/20/2007	NA	3.67	1742.59
RG-03	NA	1746.26	8/5/2008	NA	3.73	1742.53
RG-03	NA	1746.26	1/19/2009	NA	NM - DAMAGED	NA

Notes:

(1) OW-1 is located adjacent to Mays-01. Mays-01 was plugged and abandoned during measurement on 7/7/2008 which appears to have influenced the water level elevation in OW-1.

btoc = below top of casing

AMSL = above mean sea level

NA = not applicable

NM = not measured

Table 3. Surface Water, Groundwater, and Produced Water Analytical Results

Sample ID	Sample Location	Sample Date	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Sodium (mg/L)	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	Alkalinity, Carbonate (as CaCO3) (mg/L)	Alkalinity, Hydroxide (as CaCO3) (mg/L)	Alkalinity, Total (as CaCO3) (mg/L)	pH (pH units)	Specific Conductance (umhos/cm)	Total Dissolved Solids (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes, total (mg/L)	TX1005 >C12-C28 (mg/L)	TX1005 >C28-C35 (mg/L)	TX1005 C6-C12 (mg/L)	TX1005 C6-C35 (mg/L)
W-MW-01	Monitoring Well #1	8/30/2006	751	NA	NA	NA	8250	3750	5700	NA	NA	NA	NA	NA	NA	19000	0.0008 U	0.002 U	0.002 U	0.003 U	0.657 U	0.657 U	0.657 U	0.657 U
W-MW-01	Monitoring Well #1	4/13/2007	831	NA	NA	NA	8720	5640	6140	NA	NA	NA	NA	NA	NA	21900	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-01	Monitoring Well #1	8/5/2008	664	679	63.0	16.2	8180	5410	4800	384	10.0 U	10.0 U	384	6.94	33800	22000	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-01	Monitoring Well #1	1/21/2009	695	703	66.6	14.1	7520	5040	4940	519	10.0 U	10.0 U	519	NA	31000	21200	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-02	Monitoring Well #2	8/30/2006	800	NA	NA	NA	168	1850	171	NA	NA	NA	NA	NA	NA	3240	0.0008 U	0.002 U	0.002 U	0.003 U	0.686 U	0.686 U	0.686 U	0.686 U
W-MW-02	Monitoring Well #2	4/10/2007	942	NA	NA	NA	148	1950	145	NA	NA	NA	NA	NA	NA	3290	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-02-D	Monitoring Well #2 Duplicate	8/30/2006	775	NA	NA	NA	164	1840	177	NA	NA	NA	NA	NA	NA	3250	0.0008 U	0.002 U	0.002 U	0.003 U	0.673 U	0.673 U	0.673 U	0.673 U
W-MW-02	Monitoring Well #2	8/5/2008	738	166	9.72	0.595 J	156	1980	106	185	10.0 U	10.0 U	185	7.06	3390	3310	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-02	Monitoring Well #2	1/21/2009	707	167	9.53	0.509 J	109	1630	131	242	10.0 U	10.0 U	242	NA	3240	3080	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-03	Monitoring Well #3	8/28/2006	907	NA	NA	NA	4090	3070	1880	NA	NA	NA	NA	NA	NA	11600	0.0008 U	0.002 U	0.002 U	0.003 U	0.656 U	0.656 U	0.656 U	0.656 U
W-MW-03	Monitoring Well #3	4/10/2007	1000	NA	NA	NA	3910	3290	2030	NA	NA	NA	NA	NA	NA	11900	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-03	Monitoring Well #3	8/5/2008	585	576	17.9	4.48	2450	3360	1180	320	10.0 U	10.0 U	320	6.86	11400	9800	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-03	Monitoring Well #3	1/21/2009	492	523	19.2	3.22	1680	2770	1040	428	10.0 U	10.0 U	428	NA	9510	7620	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-04	Monitoring Well #4	8/24/2006	1120	NA	NA	NA	7950	1640	3920	NA	NA	NA	NA	NA	NA	15200	0.0008 U	0.002 U	0.002 U	0.003 U	0.685 U	0.685 U	0.685 U	0.685 U
W-MW-04	Monitoring Well #4	4/10/2007	953	NA	NA	NA	6040	2080	3810	NA	NA	NA	NA	NA	NA	12700	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-04-D	Monitoring Well #4 Duplicate	4/10/2007	1020	NA	NA	NA	5940	2030	3760	NA	NA	NA	NA	NA	NA	11800	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-04	Monitoring Well #4	8/5/2008	724	317	67.0	10.3	5820	1750	3090	317	10.0 U	10.0 U	317	6.88	20300	12800	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-04	Monitoring Well #4	1/20/2009	743	395	51.6	8.33	4220	1830	2310	458	10.0 U	10.0 U	458	NA	14500	10100	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-05	Monitoring Well #5	8/24/2006	1120	NA	NA	NA	14900	2730	7070	NA	NA	NA	NA	NA	NA	27400	0.0008 U	0.002 U	0.002 U	0.003 U	0.669 U	0.669 U	0.669 U	0.669 U
W-MW-05	Monitoring Well #5	4/10/2007	1030	NA	NA	NA	15100	2820	8690	NA	NA	NA	NA	NA	NA	27100	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-05	Monitoring Well #5	7/7/2008	899	NA	NA	NA	14600	2960	7040	NA	NA	NA	NA	NA	NA	28700	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-05	Monitoring Well #5	8/5/2008	885	325	109	25.1	13900	2740	7150	305	10.0 U	10.0 U	305	6.69	46700	27900	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-05	Monitoring Well #5	1/21/2009	905	349	116	25.5	13500	2590	7710	328	10.0 U	10.0 U	328	NA	45400	26200	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-06	Monitoring Well #6	8/28/2006	469	NA	NA	NA	6020	1100	2860	NA	NA	NA	NA	NA	NA	11300	0.0008 U	0.002 U	0.002 U	0.003 U	0.674 U	0.674 U	0.674 U	0.674 U
W-MW-06	Monitoring Well #6	4/13/2007	523	NA	NA	NA	6060	1170	3620	NA	NA	NA	NA	NA	NA	12400	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-06	Monitoring Well #6	8/6/2008	376	286	55.0	9.89	5750	1040	2800	329	10.0 U	10.0 U	329	6.87	20200	11800	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-06	Monitoring Well #6	1/21/2009	415	329	58.6	9.52	5190	1010	3180	354	10.0 U	10.0 U	354	NA	17800	10700	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-07	Monitoring Well #7	8/25/2006	816	NA	NA	NA	179	495	286	NA	NA	NA	NA	NA	NA	1300	0.0008 U	0.002 U	0.002 U	0.003 U	0.68 U	0.68 U	0.68 U	0.68 U
W-MW-07	Monitoring Well #7	4/11/2007	185	NA	NA	NA	189	532	260	NA	NA	NA	NA	NA	NA	1320	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-07	Monitoring Well #7	8/5/2008	142	32.1	12.5	0.569 J	184	493	264	269	10.0 U	10.0 U	269	7.41	1930	1370	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-07	Monitoring Well #7	1/20/2009	128	32.4	13.6	0.652 J	202	575	346	290	10.0 U	10.0 U	290	NA	2150	1460	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-08	Monitoring Well #8	8/25/2006	588	NA	NA	NA	8010	7520	6950	NA	NA	NA	NA	NA	NA	23200	0.0008 U	0.002 U	0.002 U	0.003 U	0.661 U	0.661 U	0.661 U	0.661 U
W-MW-08	Monitoring Well #8	4/11/2007	599	NA	NA	NA	7550	7660	6520	NA	NA	NA	NA	NA	NA	23000	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-08	Monitoring Well #8	8/5/2008	433	162	73.4	10.9	4120	5480	4560	384	10.0 U	10.0 U	384	7.06	22300	16100	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-08-D	Monitoring Well #8 - Duplicate	8/5/2008	426	188	84.6	10.9	5530	6700	4720	423	10.0 U	10.0 U	423	7.09	27300	19000	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-08	Monitoring Well #8	1/20/2009	501	195	82.3	10.3	5050	5630	5050	423	10.0 U	10.0 U	423	NA	24900	17800	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-09	Monitoring Well #9	8/25/2006	490	NA	NA	NA	634	862	672	NA	NA	NA	NA	NA	NA	2600	0.0008 U	0.002 U	0.002 U	0.003 U	0.677 U	0.677 U	0.677 U	0.677 U
W-MW-09	Monitoring Well #9	4/11/2007	244	NA	NA	NA	616	1020	704	NA	NA	NA	NA	NA	NA	2820	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-09	Monitoring Well #9	8/5/2008	84.6	35.6	8.31	0.850 J	217	333	347	440	10.0 U	10.0 U	440	7.44	2220	1530	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-09	Monitoring Well #9	1/20/2009	80.4	38.1	7.14	0.796 J	157	278	389	623	10.0 U	10.0 U	623	NA	2070	1400	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-10	Monitoring Well #10	4/17/2007	881	NA	NA	NA	14600	6700	11600	NA	NA	NA	NA	NA	NA	30800	0.0008 U	0.002 U	0.002 U	0.003 U	0.651 U	0.651 U	0.651 U	0.651 U
W-MW-10	Monitoring Well #10	7/7/2008	763	NA	NA	NA	14300	6500	8380	NA	NA	NA	NA	NA	NA	32300	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-10-D	Monitoring Well #10 Duplicate	7/7/2008	760	NA	NA	NA	14400	6510	8520	NA	NA	NA	NA	NA	NA	32300	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-10	Monitoring Well #10	8/5/2008	751	339	138	26.2	13600	6150	8850	408	10.0 U	10.0 U	408	6.73	51200	32200	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-10	Monitoring Well #10	1/21/2009	730	362	152	27.4	13900	5980	9450	439	10.0 U	10.0 U	439	NA	51200	32300	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-11	Monitoring Well #11	4/13/2007	983	NA	NA	NA	7820	1140	4210	NA	NA	NA	NA	NA	NA	14900	0.0008 U	0.002 U	0.002 U	0.003 U	0.682 U	0.682 U	0.682 U	0.682 U
W-MW-11	Monitoring Well #11	7/7/2008	499	NA	NA	NA	4160	812	1840	NA	NA	NA	NA	NA	NA	13300	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-11	Monitoring Well #11	8/5/2008	764	273	53.0	14.4	5250	1070	4420	262	10.0 U	10.0 U	262	6.87	21800	13200	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-11	Monitoring Well #11	1/21/2009	796	288	29.7	21.9	7380	1150	3920	332	10.0 U	10.0 U	332	NA	25600	15500	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-12	Monitoring Well #12	4/16/2007	1320	NA	NA	NA	16400	5080	10900	NA	NA	NA	NA	NA	NA	31800	0.0008 U	0.002 U	0.002 U	0.003 U	0.682 U	0.682 U	0.682 U	0.682 U
W-MW-12	Monitoring Well #12	7/8/2008	984	NA	NA	NA	18500	5210	9410	NA	NA	NA	NA	NA	NA	37700	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-12	Monitoring Well #12	8/5/2008	1020	634	128	31.7	17500	4610	9190	354	10.0 U	10.0 U	354	6.71	58400	37400	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-12	Monitoring Well #12	1/21/2009	963	674	127	26.5	14800	4810	8840	383	10.0 U	10.0 U	383	NA	53400	33700	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-13	Monitoring Well #13	4/16/2007	1600	NA	NA	NA	5880	1980	3670	NA	NA	NA	NA	NA	NA	13200	0.0008 U	0.002 U	0.002 U	0.003 U	0.676 U	0.676 U	0.676 U	0.676 U
W-MW-13	Monitoring Well #13	8/5/2008	748	262	24.2	21.0	5590	2160	2520	272	10.0 U	10.0 U	272	6.99	21000	13200	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-13	Monitoring Well #13	1/20/2009	814	303	26.4	20.3	4810	2180 J	3260	392	10.0 U	10.0 U	392	NA	18100	12700	NA	NA	NA	NA	NA	NA	NA	NA
W-MW-14	Monitoring Well #14	4/17/2007	574	NA	NA	NA	5770	6540	5980	NA	NA	NA	NA	NA	NA	18200	0.0008 U	0.002 U	0.002 U	0.003 U	0.666 U	0.666 U	0.666 U	0.666 U
W-MW-14	Monitoring Well #14	8/6/2008	532	277	82.0	30.0 U																		

Table 3. Surface Water, Groundwater, and Produced Water Analytical Results

Sample ID	Sample Location	Sample Date	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Sodium (mg/L)	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	Alkalinity, Carbonate (as CaCO3) (mg/L)	Alkalinity, Hydroxide (as CaCO3) (mg/L)	Alkalinity, Total (as CaCO3) (mg/L)	pH (pH units)	Specific Conductance (umhos/cm)	Total Dissolved Solids (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes, total (mg/L)	TX1005 >C12-C28 (mg/L)	TX1005 >C28-C35 (mg/L)	TX1005 C6-C12 (mg/L)	TX1005 C6-C35 (mg/L)
W-OB-01	Observation Well #1	7/7/2008	3660	NA	NA	NA	29400	1960	9580	NA	NA	NA	NA	NA	NA	63800	NA	NA	NA	NA	NA	NA	NA	NA
W-OW-01	Observation Well #1	8/6/2008	4090	1080	61.7	163	28900	1420	9430	288	10.0 U	10.0 U	288	6.14	89500	53900	NA	NA	NA	NA	NA	NA	NA	NA
W-OW-01-D	Observation Well #1 Duplicate	8/6/2008	4090	1100	61.6	164	28400	1490	9540	286	10.0 U	10.0 U	286	6.13	85500	54400	NA	NA	NA	NA	NA	NA	NA	NA
W-OW-01	Observation Well #1	1/22/2009	4060	1130	66.5	147	29500	1410	10600	303	10.0 U	10.0 U	303	NA	80100	52000	NA	NA	NA	NA	NA	NA	NA	NA
W-WW-4313302	Water Well 4313302	7/12/2006	256	NA	NA	NA	100	1090	150	NA	NA	NA	NA	NA	NA	1950	0.0008 U	0.002 U	0.002 U	0.003 U	0.711 U	0.711 U	0.711 U	0.711 U
W-WW-4313302	Water Well 4313302	8/28/2006	288	NA	NA	NA	98.3	1050	149	NA	NA	NA	NA	NA	NA	2040	0.0008 U	0.002 U	0.002 U	0.003 U	0.67 U	0.67 U	0.67 U	0.67 U
W-WW-4313302	Water Well 4313302	4/12/2007	261	NA	NA	NA	98.3	1090	139	NA	NA	NA	NA	NA	NA	1990	NA	NA	NA	NA	NA	NA	NA	NA
W-WW-4313302	Water Well 4313302	8/6/2008	101	97.5	7.95	0.703 J	85	900	111	51.6	10.0 U	10.0 U	51.6	6.98	1590	1210	NA	NA	NA	NA	NA	NA	NA	NA
W-WW-4313603	Water Well 4313603	7/13/2006	147	NA	NA	NA	1500	540	955	NA	NA	NA	NA	NA	NA	3370	0.0008 U	0.002 U	0.002 U	0.003 U	0.679 U	0.679 U	0.679 U	0.679 U
W-WW-4313603-D	Water Well 4313603 Duplicate	7/13/2006	144	NA	NA	NA	1500	545	937	NA	NA	NA	NA	NA	NA	3340	0.0008 U	0.002 U	0.002 U	0.003 U	0.691 U	0.691 U	0.691 U	0.691 U
W-WW-4313603	Water Well 4313603	8/23/2006	158	NA	NA	NA	1410	510	932	NA	NA	NA	NA	NA	NA	3320	0.0008 U	0.002 U	0.002 U	0.003 U	0.678 U	0.678 U	0.678 U	0.678 U
W-WW-4313603	Water Well 4313603	4/11/2007	PUMP NOT OPERATING																					
W-WW-4313605	Water Well 4313605	8/23/2006	106	NA	NA	NA	519	490	437	NA	NA	NA	NA	NA	NA	1740	0.0008 U	0.002 U	0.002 U	0.003 U	0.674 U	0.674 U	0.674 U	0.674 U
W-WW-4313605	Water Well 4313605	4/9/2007	131	NA	NA	NA	563	506	470	NA	NA	NA	NA	NA	NA	1970	NA	NA	NA	NA	NA	NA	NA	NA
W-WW-4313608	Water Well 4313608	7/13/2006	51.8	NA	NA	NA	210	112	205	NA	NA	NA	NA	NA	NA	763	0.0008 U	0.002 U	0.002 U	0.003 U	0.704 U	0.704 U	0.704 U	0.704 U
W-WW-4313608	Water Well 4313608	8/23/2006	56.8	NA	NA	NA	197	104	191	NA	NA	NA	NA	NA	NA	718	0.0008 U	0.002 U	0.002 U	0.003 U	0.679 U	0.679 U	0.679 U	0.679 U
W-WW-4313608	Water Well 4313608	4/11/2007	PUMP NOT OPERATING																					
W-WV-Mays-01	Water Well May's Ranch #1	8/23/2006	4320	NA	NA	NA	27200	1390	12300	NA	NA	NA	NA	NA	NA	47000	0.0008 U	0.002 U	0.002 U	0.003 U	0.651 U	0.651 U	0.651 U	0.651 U
W-WV-Mays-01	Water Well May's Ranch #1	4/9/2007	3720	NA	NA	NA	27900	1650	10600	NA	NA	NA	NA	NA	NA	50600	NA	NA	NA	NA	NA	NA	NA	NA
W-WV-Mays-01-D	Water Well May's Ranch #1 Duplicate	4/9/2007	3630	NA	NA	NA	28700	1670	10300	NA	NA	NA	NA	NA	NA	51900	NA	NA	NA	NA	NA	NA	NA	NA
Water Well Mays-01 (73.5') *	Water Well May's Ranch #1 @73.5 ft btoc	6/21/2007	4580	NA	NA	NA	36000	1350	11900	NA	NA	NA	NA	NA	NA	58200	NA	NA	NA	NA	NA	NA	NA	NA
Water Well Mays-01 (98.5') *	Water Well May's Ranch #1 @98.5 ft btoc	6/21/2007	4630	NA	NA	NA	35800	1600	12100	NA	NA	NA	NA	NA	NA	57900	NA	NA	NA	NA	NA	NA	NA	NA
W-WW-081	Water Well May's Ranch #2	8/6/2008	1140	575	125	34.7	19200	3480	9160	237	10.0 U	10.0 U	237	6.60	59400	36700	NA	NA	NA	NA	NA	NA	NA	NA
W-WV-Mays-02	Water Well May's Ranch #2	1/21/2009	1160	608	131	85.8	17700	3300	10000	270	10.0 U	10.0 U	270	NA	57900	35600	NA	NA	NA	NA	NA	NA	NA	NA
W-WV-Milford-01	Milford Water Well #1	7/14/2006	77.4	NA	NA	NA	659	2960	754	NA	NA	NA	NA	NA	NA	5210	0.0008 U	0.002 U	0.002 U	0.003 U	0.675 U	0.675 U	0.675 U	0.675 U
W-WV-Milford-01-D	Milford Water Well #1 Duplicate	7/14/2006	69.4	NA	NA	NA	467	2020	691	NA	NA	NA	NA	NA	NA	3730	0.0008 U	0.002 U	0.002 U	0.003 U	0.68 U	0.68 U	0.68 U	0.68 U
W-WV-Milford-01	Milford Water Well #1	8/24/2006	191	NA	NA	NA	878	3930	1680	NA	NA	NA	NA	NA	NA	7260	0.0008 U	0.002 U	0.002 U	0.003 U	0.676 U	0.676 U	0.676 U	0.676 U
W-WV-Milford-01-D	Milford Water Well #1 Duplicate	8/24/2006	157	NA	NA	NA	640	2830	1670	NA	NA	NA	NA	NA	NA	5340	0.0008 U	0.002 U	0.002 U	0.003 U	0.679 U	0.679 U	0.679 U	0.679 U
W-WV-Milford-01	Milford Water Well #1	4/11/2007	258	NA	NA	NA	1480	6810	3450	NA	NA	NA	NA	NA	NA	12400	NA	NA	NA	NA	NA	NA	NA	NA
W-WV-Milford-02	Milford Water Well #2	7/14/2006	195	NA	NA	NA	786	5110	2450	NA	NA	NA	NA	NA	NA	7450	0.0008 U	0.002 U	0.002 U	0.003 U	0.686 U	0.686 U	0.686 U	0.686 U
W-WV-Milford-02	Milford Water Well #2	8/24/2006	235	NA	NA	NA	756	5110	2870	NA	NA	NA	NA	NA	NA	8860	0.0008 U	0.002 U	0.002 U	0.003 U	0.682 U	0.682 U	0.682 U	0.682 U
W-WV-Milford-02	Milford Water Well #2	4/11/2007	242	NA	NA	NA	798	5710	2520	NA	NA	NA	NA	NA	NA	9500	NA	NA	NA	NA	NA	NA	NA	NA
W-WV-Milford-02	Milford Water Well #2	8/5/2008	229	118	44.2	1.38	800	4890	2470	431	10.0 U	10.0 U	431	7.22	11200	9980	NA	NA	NA	NA	NA	NA	NA	NA
W-WV-Rawlins	Rawlins Water Well	7/13/2006	59.8	NA	NA	NA	175	126	184	NA	NA	NA	NA	NA	NA	780	0.0008 U	0.002 U	0.002 U	0.003 U	0.704 U	0.704 U	0.704 U	0.704 U
W-RS-03	Colorado River Segment 3	7/12/2006	111	NA	NA	NA	624	273	366	NA	NA	NA	NA	NA	NA	1570	0.0008 U	0.002 U	0.002 U	0.003 U	0.694 U	0.694 U	0.694 U	0.694 U
W-RS-03	Colorado River Segment 3	8/29/2006	85.1	NA	NA	NA	313	184	195	NA	NA	NA	NA	NA	NA	965	NA	NA	NA	NA	NA	NA	NA	NA
W-RS-03	Colorado River Segment 3	4/19/2007	119	NA	NA	NA	679	481	368	NA	NA	NA	NA	NA	NA	1870	NA	NA	NA	NA	NA	NA	NA	NA
W-RS-07	Colorado River Segment 7	7/12/2006	102	NA	NA	NA	647	273	388	NA	NA	NA	NA	NA	NA	1600	0.0008 U	0.002 U	0.002 U	0.003 U	0.706 U	0.706 U	0.706 U	0.706 U
W-RS-07	Colorado River Segment 7	8/29/2006	85.8	NA	NA	NA	324	192	196	NA	NA	NA	NA	NA	NA	980	NA	NA	NA	NA	NA	NA	NA	NA
W-RS-07	Colorado River Segment 7	4/18/2007	125	NA	NA	NA	716	531	392	NA	NA	NA	NA	NA	NA	1970	NA	NA						

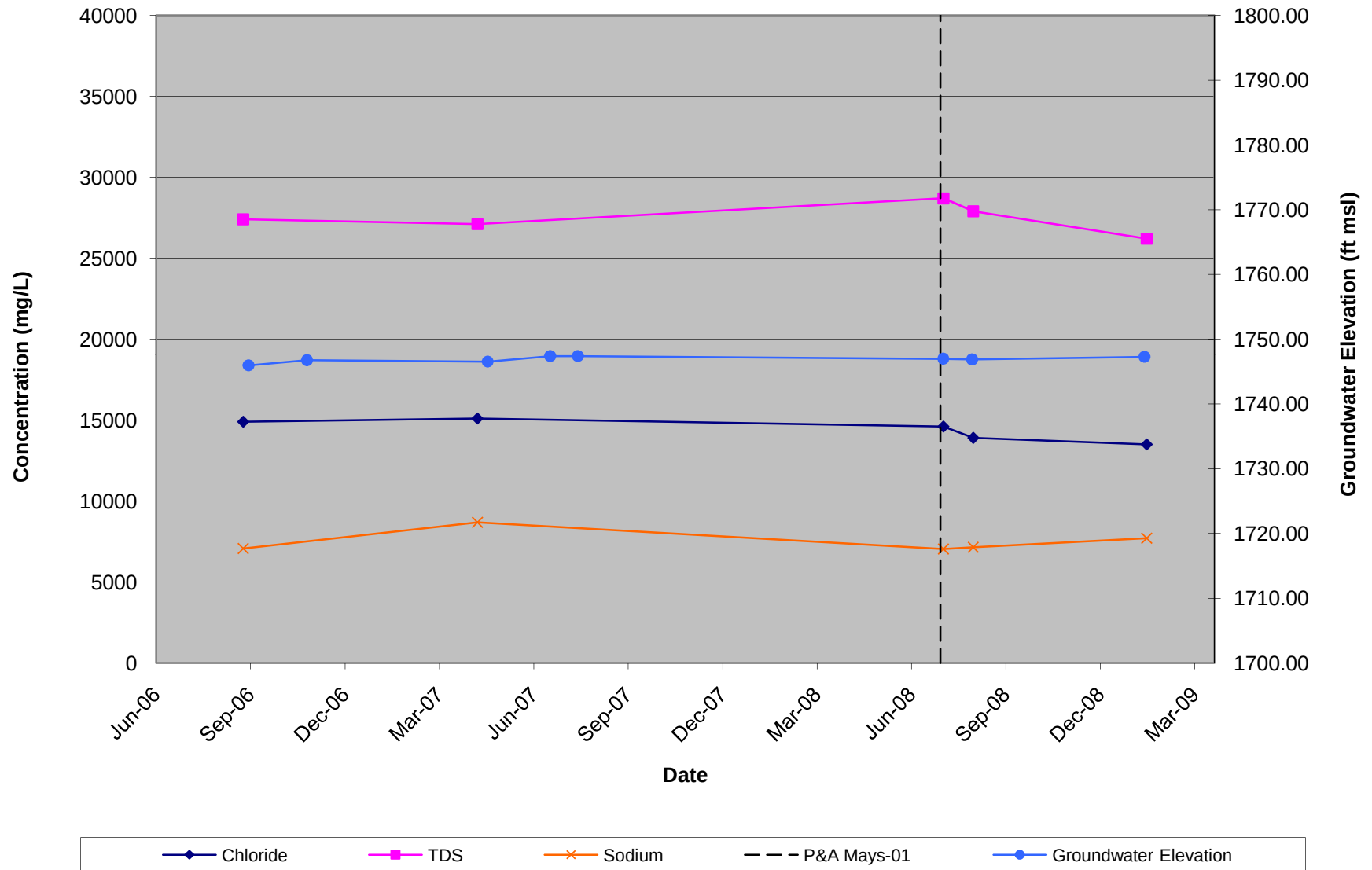
Table 3. Surface Water, Groundwater, and Produced Water Analytical Results

Sample ID	Sample Location	Sample Date	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Sodium (mg/L)	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	Alkalinity, Carbonate (as CaCO3) (mg/L)	Alkalinity, Hydroxide (as CaCO3) (mg/L)	Alkalinity, Total (as CaCO3) (mg/L)	pH (pH units)	Specific Conductance (umhos/cm)	Total Dissolved Solids (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes, total (mg/L)	TX1005 >C12-C28 (mg/L)	TX1005 >C28-C35 (mg/L)	TX1005 C6-C12 (mg/L)	TX1005 C6-C35 (mg/L)
W-SG-4314104-01	Spring 4314104	7/14/2006	694	NA	NA	NA	4660	19100	7640	NA	NA	NA	NA	NA	NA	31900	0.0008 U	0.002 U	0.002 U	0.003 U	0.674 U	0.674 U	0.674 U	0.674 U
W-SG-4314104	Spring 4314104	8/29/2006	487	NA	NA	NA	4360	19000	6770	NA	NA	NA	NA	NA	NA	31800	0.0008 U	0.002 U	0.002 U	0.003 U	0.657 U	0.657 U	0.657 U	0.657 U
W-SG-4314104-D	Spring 4314104 Duplicate	8/29/2006	506	NA	NA	NA	4150	18000	6090	NA	NA	NA	NA	NA	NA	31000	NA	NA	NA	NA	NA	NA	NA	NA
W-SG-4314104	Spring 4314104	4/11/2007	352	NA	NA	NA	1070	4660	2030	NA	NA	NA	NA	NA	NA	8650	NA	NA	NA	NA	NA	NA	NA	NA
W-SP-01	May's Ranch Seep	7/13/2006	84.3	NA	NA	NA	508	461	393	NA	NA	NA	NA	NA	NA	1630	0.0008 U	0.002 U	0.002 U	0.003 U	0.716 U	0.716 U	0.716 U	0.716 U
W-SP-01	May's Ranch Seep	8/23/2006	95.2	NA	NA	NA	503	471	384	NA	NA	NA	NA	NA	NA	1650	0.0008 U	0.002 U	0.002 U	0.003 U	0.676 U	0.676 U	0.676 U	0.676 U
W-SP-01	May's Ranch Seep	4/9/2007	87.3	NA	NA	NA	368	393	304	NA	NA	NA	NA	NA	NA	1330	NA	NA	NA	NA	NA	NA	NA	NA
W-SP-01	May's Ranch Seep	1/20/2009	124	82.8	23.2	1.31	462	443	361	350	10.0 U	10.0 U	350	NA	2520	1630	NA	NA	NA	NA	NA	NA	NA	NA
W-C-01	May's Ranch Creek (upstream)	7/13/2006	51	NA	NA	NA	133	16.4	60.2	NA	NA	NA	NA	NA	NA	396	0.0008 U	0.002 U	0.002 U	0.003 U	0.679 U	0.679 U	0.679 U	0.679 U
W-C-01	May's Ranch Creek (upstream)	8/23/2006	41.6	NA	NA	NA	282	9.51	141	NA	NA	NA	NA	NA	NA	590	0.0008 U	0.002 U	0.002 U	0.003 U	0.676 U	0.676 U	0.676 U	0.676 U
W-C-01	May's Ranch Creek (upstream)	4/9/2007	43	NA	NA	NA	23.8	4.18	15.8	NA	NA	NA	NA	NA	NA	169	NA	NA	NA	NA	NA	NA	NA	NA
W-C-02	May's Ranch Creek (downstream)	4/9/2007	50	NA	NA	NA	75.6	30.2	43.6	NA	NA	NA	NA	NA	NA	291	NA	NA	NA	NA	NA	NA	NA	NA
W-Q-01	SANCO Quarry Pond	7/12/2006	479	NA	NA	NA	855	453	464	NA	NA	NA	NA	NA	NA	2100	0.0008 U	0.002 U	0.002 U	0.003 U	0.71 U	0.71 U	0.71 U	0.71 U
W-Q-01	SANCO Quarry Pond	8/30/2006	312	NA	NA	NA	523	383	289	NA	NA	NA	NA	NA	NA	1510	NA	NA	NA	NA	NA	NA	NA	NA
W-Q-01	SANCO Quarry Pond	4/19/2007	1190	NA	NA	NA	803	606	422	NA	NA	NA	NA	NA	NA	2160	NA	NA	NA	NA	NA	NA	NA	NA
W-Q-01-D	SANCO Quarry Pond Duplicate	4/19/2007	1210	NA	NA	NA	809	609	374	NA	NA	NA	NA	NA	NA	2240	NA	NA	NA	NA	NA	NA	NA	NA
W-T-01	Wendkirk Oil Field Produced Water Tank	4/16/2007	8160	NA	NA	NA	89900	224	38300	NA	NA	NA	NA	NA	NA	138000	0.326	0.278	0.0485	0.273	12.2	1.19 J	12.9	26.3

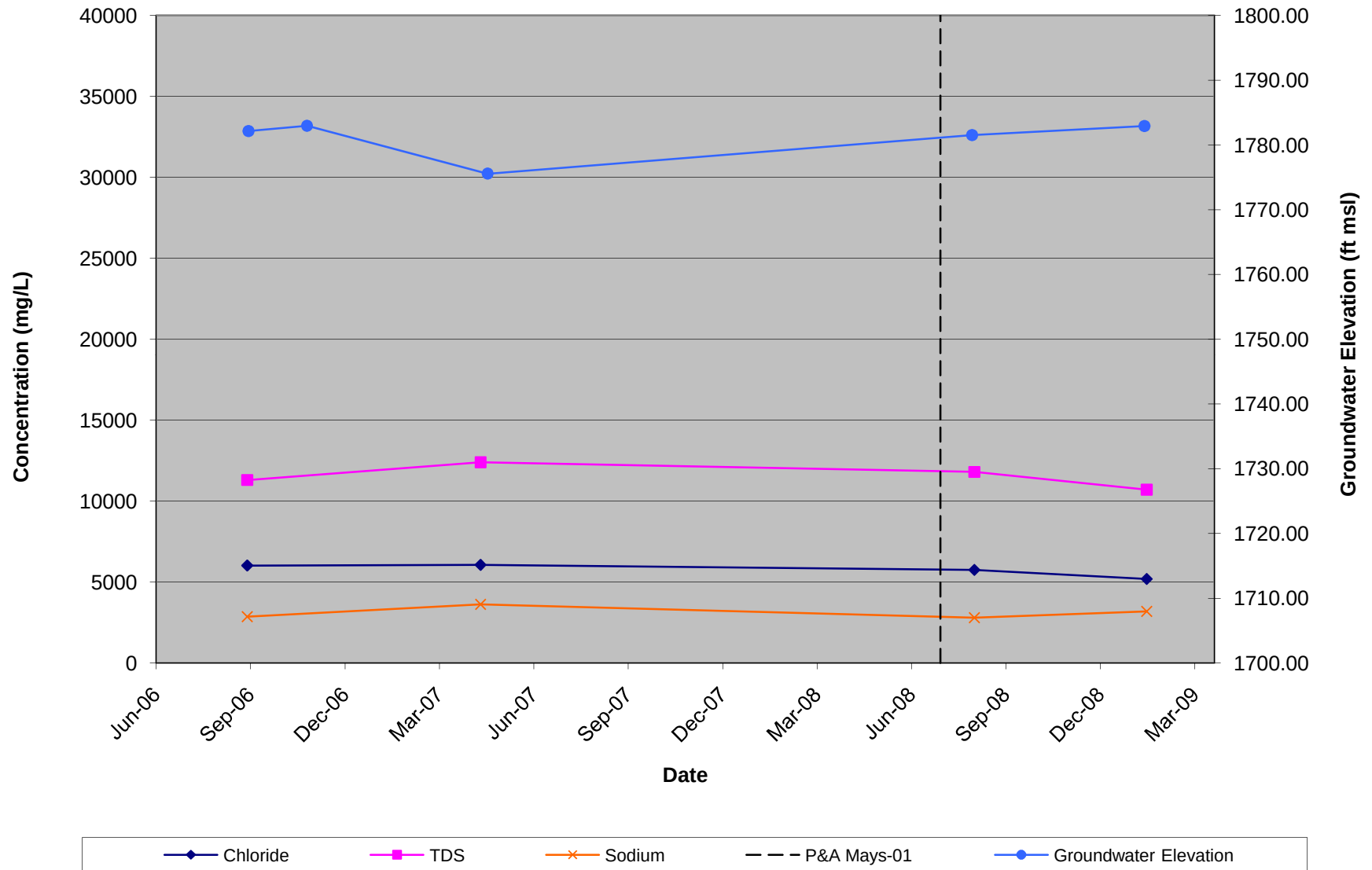
Notes
mg/L = milligrams per liter
U = analyte not detected
J = estimated concentration
NA = not analyzed
* = Grab sample for qualitative analysis only

GRAPHS

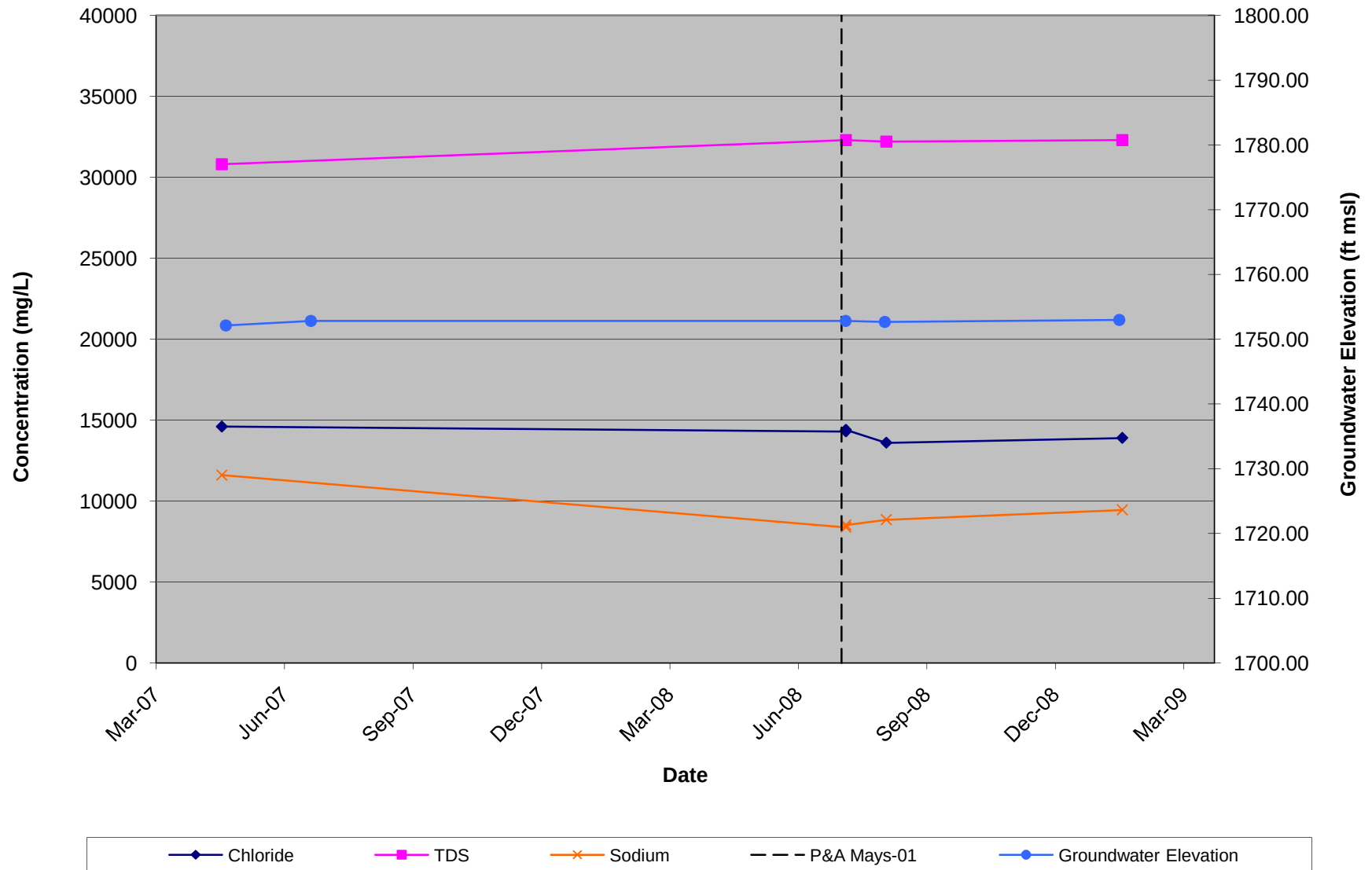
GRAPH 1. MW-05 Concentrations and Groundwater Elevations



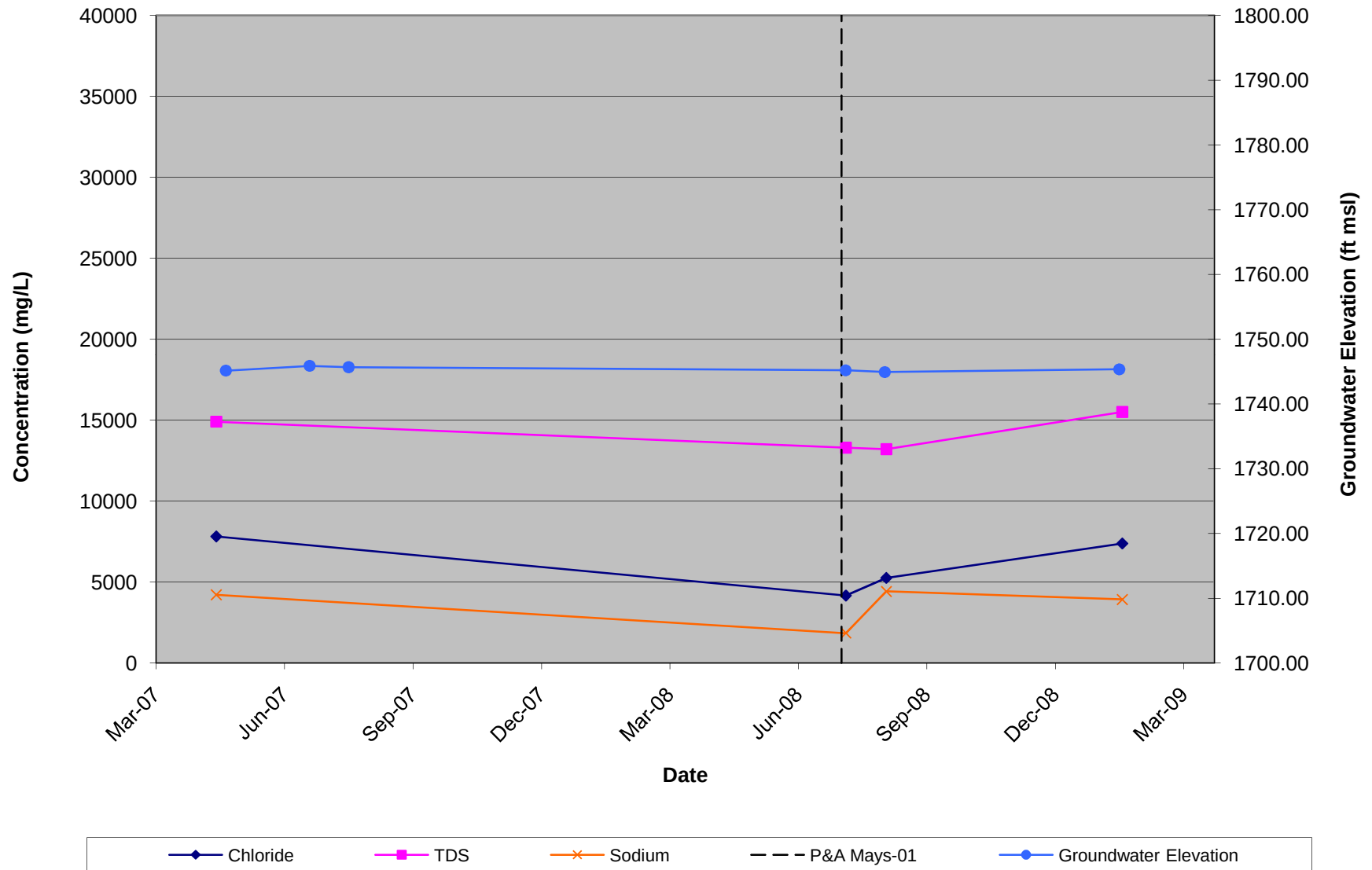
GRAPH 2. MW-06 Concentrations and Groundwater Elevations



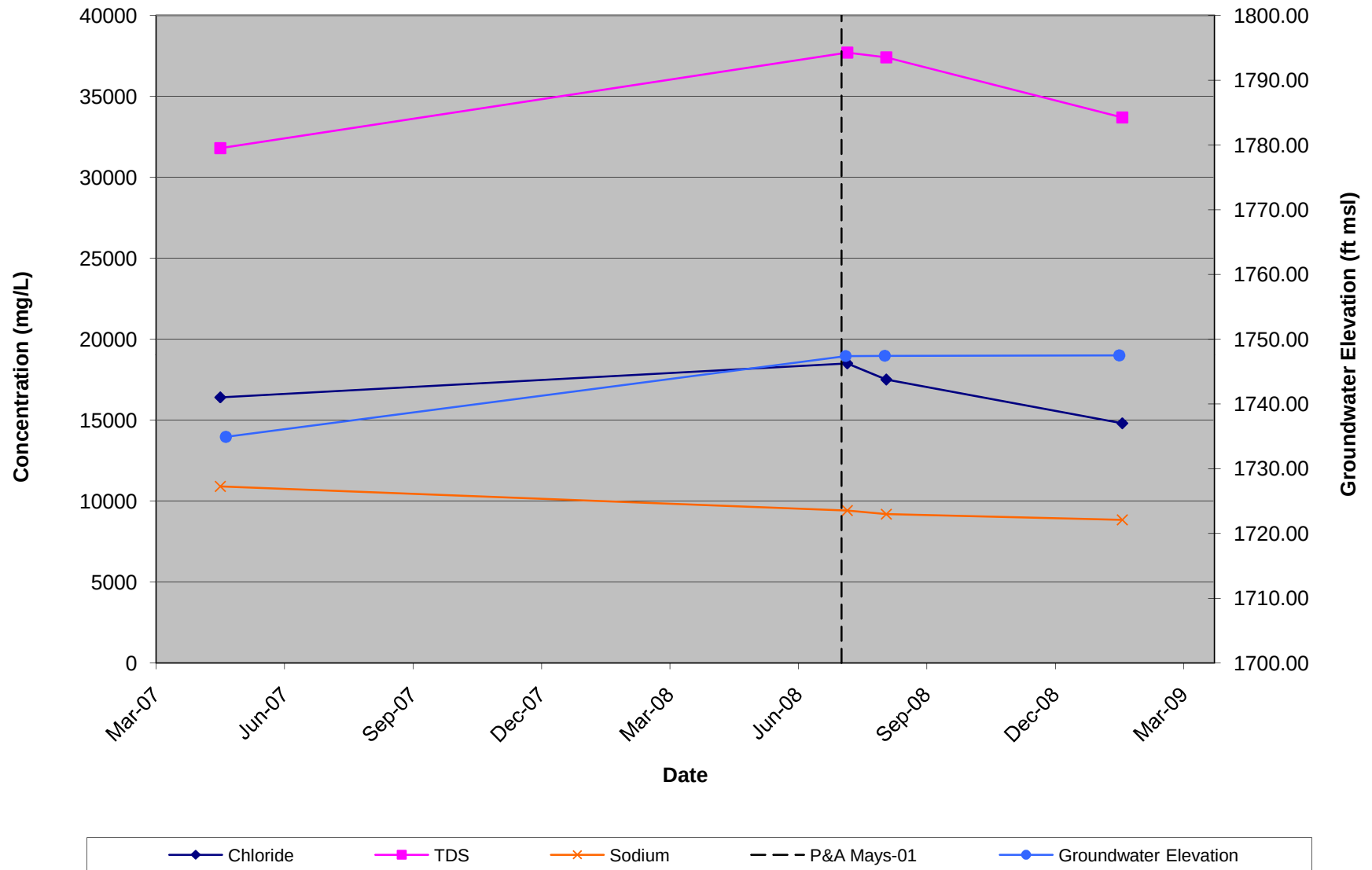
GRAPH 3. MW-10 Concentrations and Groundwater Elevations



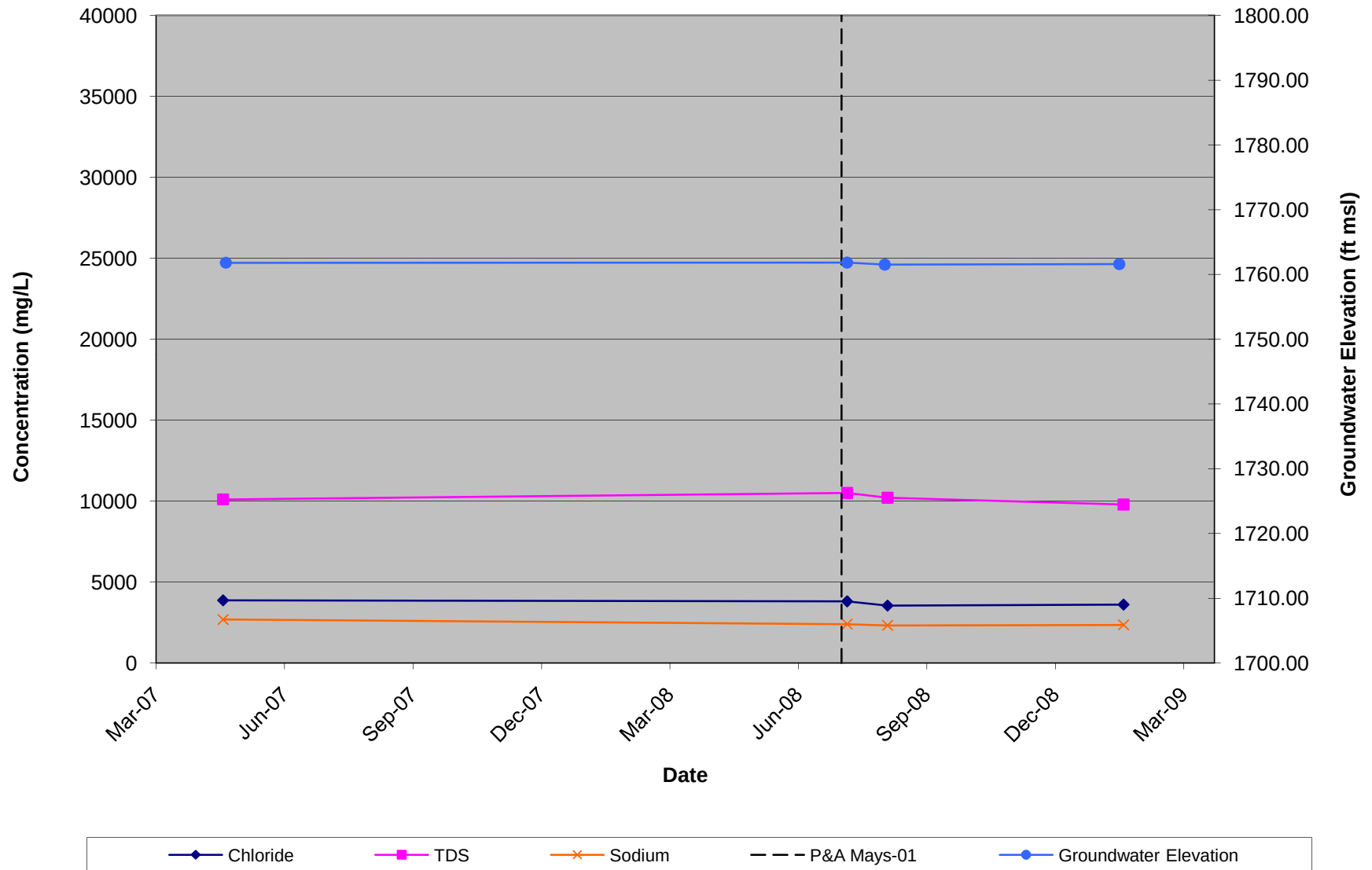
GRAPH 4. MW-11 Concentrations and Groundwater Elevations



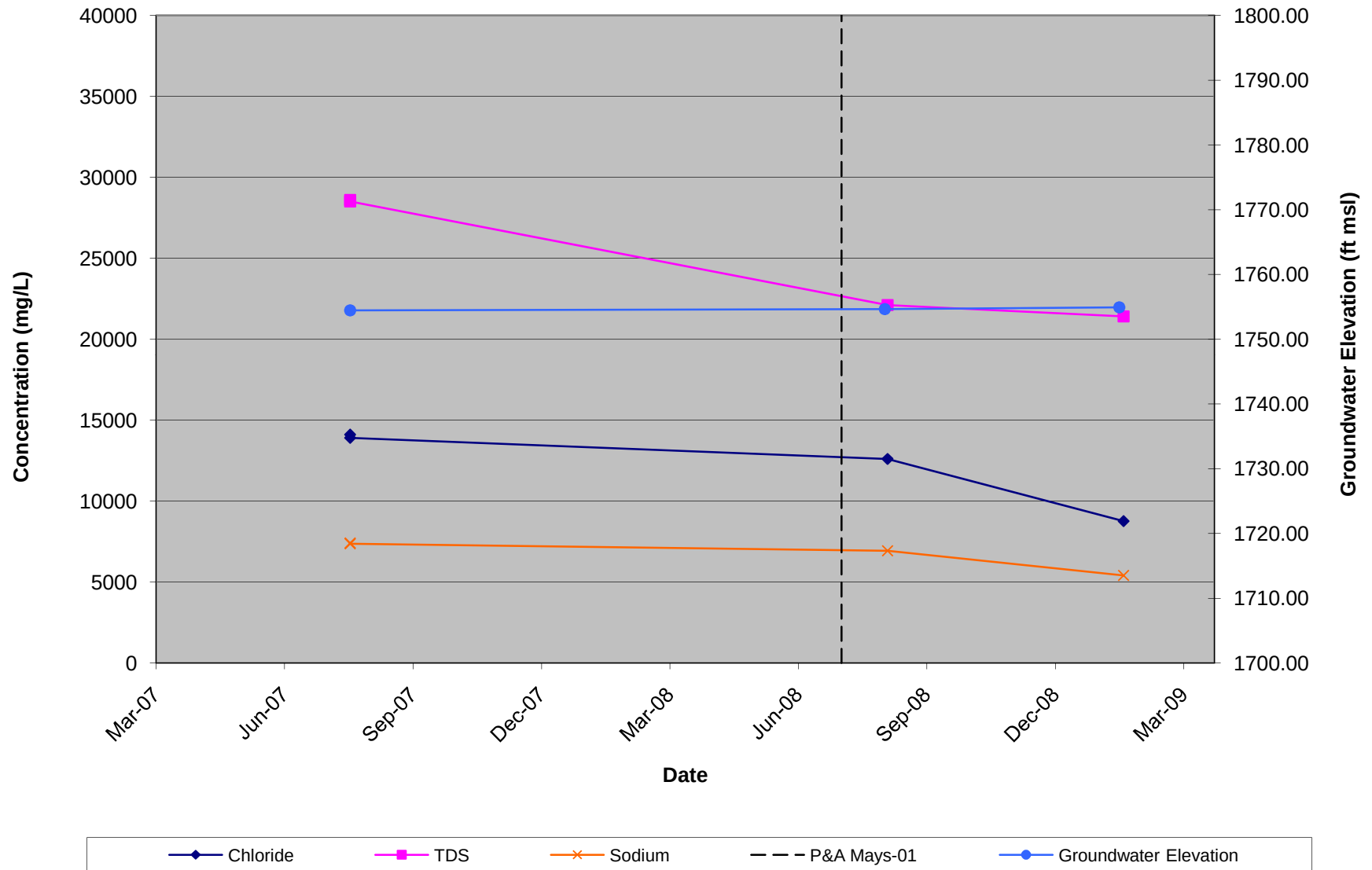
GRAPH 5. MW-12 Concentrations and Groundwater Elevations



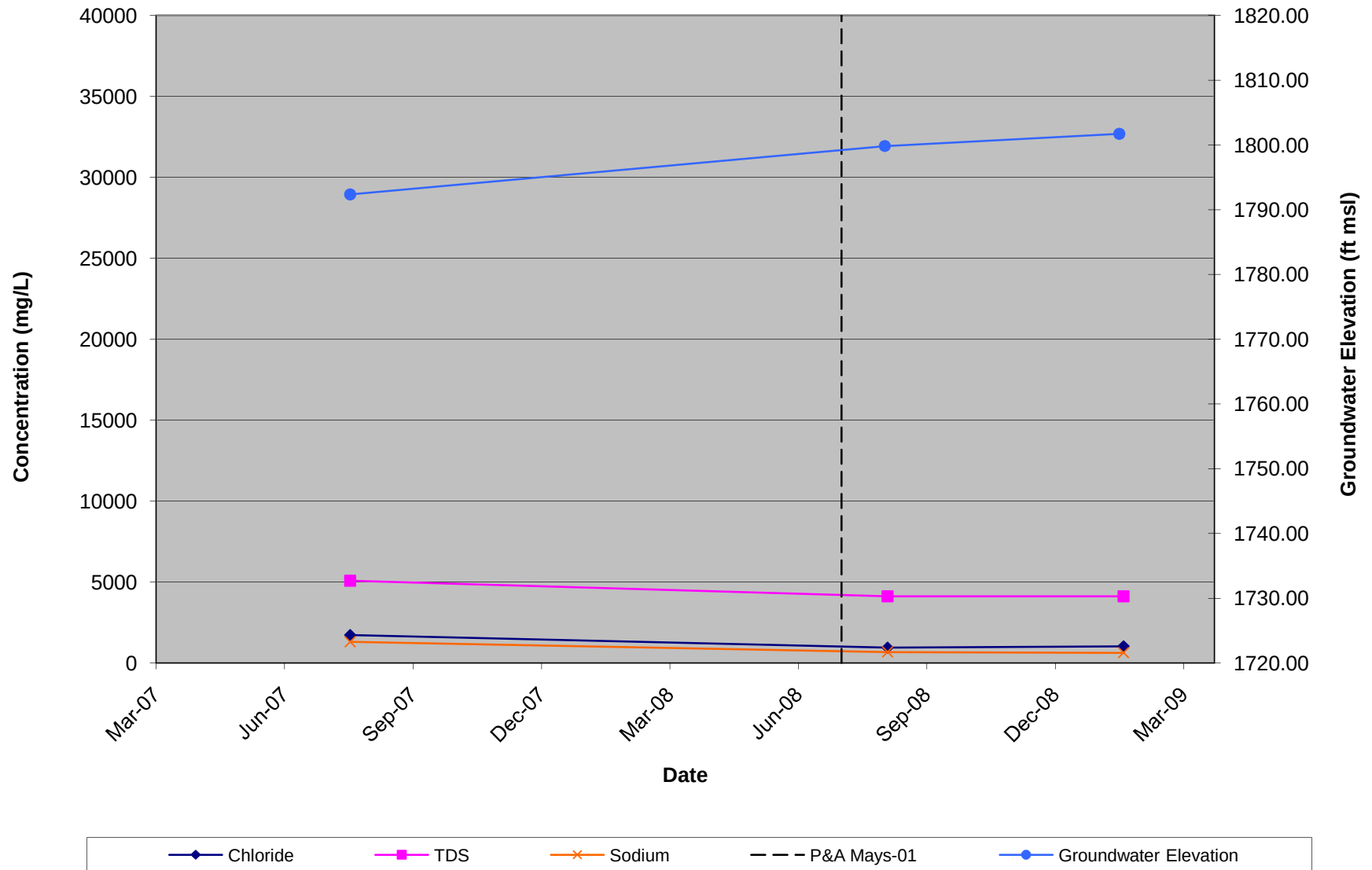
GRAPH 6. MW-17 Concentrations and Groundwater Elevations



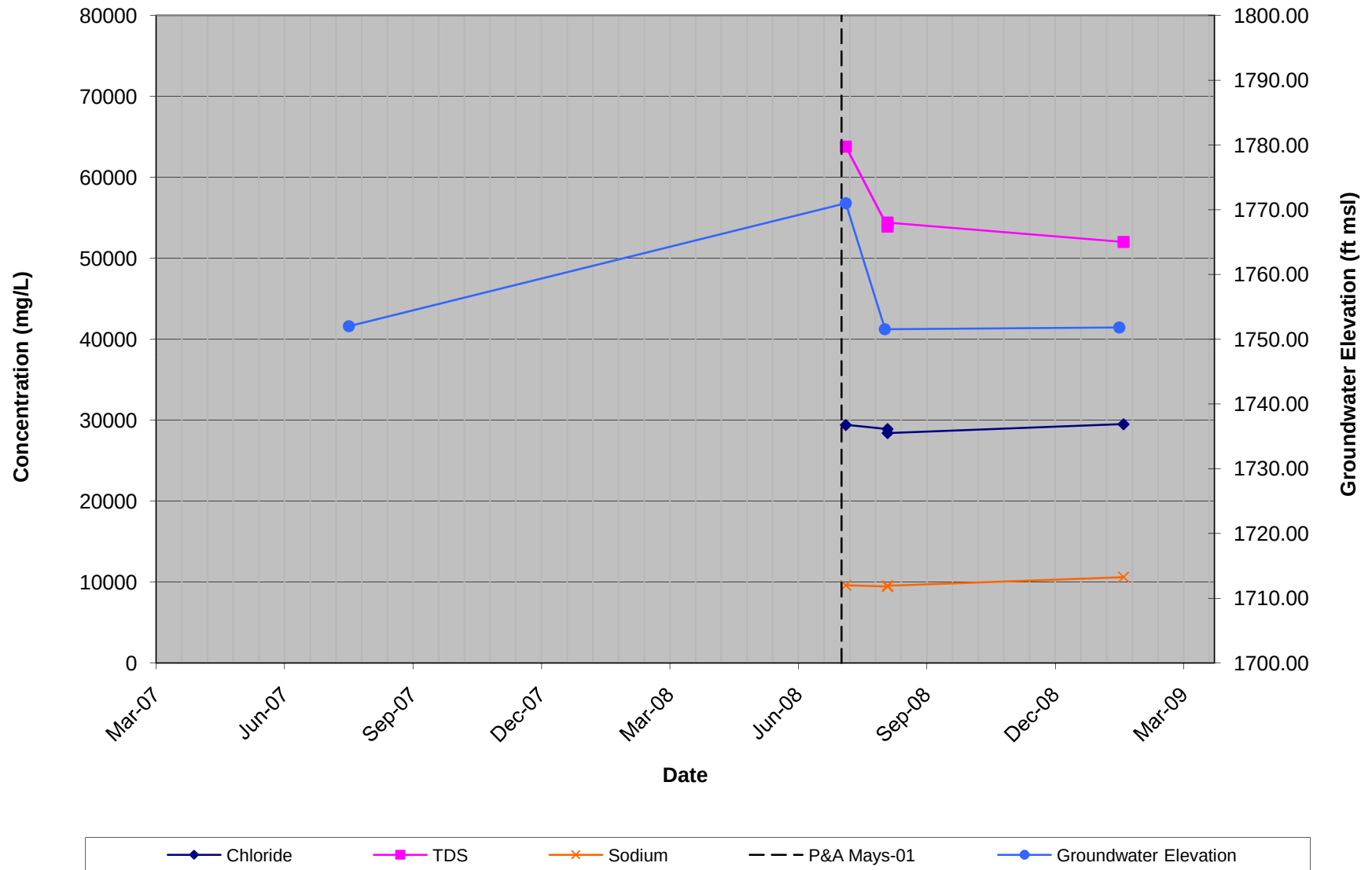
GRAPH 7. MW-19 Concentrations and Groundwater Elevations



GRAPH 8. MW-20 Concentrations and Groundwater Elevations



GRAPH 9. OW-01 Concentrations and Groundwater Elevations



ATTACHMENT 1

FIELD FORMS

$$W - m\omega - 1$$

Railroad Commission of Texas

Wendkirk Oil Field, Coke County, Texas

1240

DSP. Fale

Sily TAN
BC

Sampling Personnel

— of

W-MW-2

Railroad Commission of Texas

Wendkirk Oil Field, Coke County, Texas

27.68

28. 18

1142

DAUER

35.5

BAUER

7.82

tan, Covel, No odor, No shoes

1.25

B. Clerk, C. Manguni

of _____)

W-MW-3

Railroad Commission of Texas

Wendkirk Oil Field, Coke County, Texas

1140

BAIZER

BALLER

TAN, SILTY / CLOUDY NO ODOZ, NO SHEEN

5

Page 1 of 1

W-MW-4

Railroad Commission of Texas

Wendkirk Oil Field, Coke County, Texas

B-CLARK C. MANUURI

Page 1 of 1

W-MW-5

Railroad Commission of Texas

Wendkirk Oil Field, Coke County, Texas

15-91

26.21

32.7

16

2.5 GAL

141E

Disp. Baile

Sitting 6 Rev

BC

Page 1 of 1

W- MW-6

Railroad Commission of Texas

Wendkirk Oil Field, Coke County, Texas

51.57

88.18

96.7

451

7.25

1032

BAILER

BAILER

reddish brown, No odor, No Sheen.

B. CLARK C. MANSURI

Page 1 of 1

W-MW-7

Railroad Commission of Texas

Wendkirk Oil Field, Coke County, Texas

29.56

35.66

36.90

7.34

L25

1348

BAILER

BAUER

TAN CLOUDY, NO ODOR, NO SHEEN

B. Clarke C. Mansuri

Page 1 of 1

W-MW-8

Railroad Commission of Texas

Wendkirk Oil Field, Coke County, Texas

32-14

35.55

58.7

26.5

4.25

1310

BACLEN

BALLER

CLEAR TAN, NO ODOR, NO SHEEN

CM, BC

Page 1 of 1

W-MW-9

Railroad Commission of Texas

Wendkirk Oil Field, Coke County, Texas

1022

TRAILER

BAUER

Reddish brown, cloudy, No Odor, No Sheen.

BC, CM

_____ of _____

[illegible]

W-MW-11

Railroad Commission of Texas

Wendkirk Oil Field, Coke County, Texas

21.43

24.14

30.2

9.00

1.5 GAL

1340

Disg Bader

10

Slightly salt brown

BC

Page 1 of 1

W-MW-12

Railroad Commission of Texas

Wendkirk Oil Field, Coke County, Texas

18.60

31.35

39.80

21.2

3.5 GAL

1536

BALLER

BALLER

Redish Brown, no odor, No sheen.

C MANSURI

Page (of)

W-MW-13

Railroad Commission of Texas

Wendkirk Oil Field, Coke County, Texas

930

BALLER

BALLER

Bladder ^{redish}
Blackish Gray to Brown, Cloudy.

BC, CM

Page 1 of 1

W-MW-14

Railroad Commission of Texas

Wendkirk Oil Field, Coke County, Texas

BC, CM

Page 1 of 1

W-MW-15

Railroad Commission of Texas

Wendkirk Oil Field, Coke County, Texas

1250

BALLER

BALLER

Brown, cloudy, No Odor, No Sheen

C. MANSURI

Turbidity (NTUs)

HIGH

1

1

44-MW-16

Railroad Commission of Texas

Wendkirk Oil Field, Coke County, Texas

15.80

36.71

35-1

19.70

3.0 GAL

1527

BAILER

BAILER

FAINT TAN, CLEAR, NO ODOR, NO SHEEN

B. CLARK C. MANSOURY

Initial CM Date 1/20/09

21



1/21/09	1757	1.0	1.0	66.06	6.91	21.6	13,850	12,620	-65	}	H66H	
	1803	1.0	2.0	72.80	6.85	20.9	14,190	12,990	-55		"	
↓	1805	WELL DRIED - INSUFFICIENT AMT.				FOR SAMPLING					mal	
1/22/09	1822	- GRAB SAMPLE -				67.59	7.30	21.7	13,970		11,510	+162

W-MW-18

Railroad Commission of Texas

Wendkirk Oil Field, Coke County, Texas

1410

Disp. Baker

Water Description

Water Description

Sampling Personnel

silty fed
FL

1,6

W-MW-19

Railroad Commission of Texas

Wendkirk Oil Field, Coke County, Texas

Before Sampling

75.22

Sample Collection Time

11.40

After Sampling

102.00

Purge Method

DISPOSABLE BAILER

Total Depth (ft)

105.50

Sample Method

61 11

Standing Water Column (ft)

30. 28

Water Description

Silky Grey

One Purge Volume (gal)

5.0 GAL

Sampling Personnel

B. Clark E. Mansuri

Initial CM Date 1/22/09

W-MW-20

Railroad Commission of Texas

Wendkirk Oil Field, Coke County, Texas

89.19

109.71

1200

Disp. Bailer

115.50

26.31

Reddish Brown, Cloudy, No Odor No Sheen.

4.25

C. Mansueti B. Clarke

Page 1 of 1

W-OW-1

Railroad Commission of Texas

Wendkirk Oil Field, Coke County, Texas

1310

BAILEN

BAILER

yellowish tan, Clear, No odor. No shear

B. Clark, C. Mansouri

Page 1 of 1

ATTACHMENT 2

**LABORATORY ANALYTICAL DATA REPORTS
AND CHAIN OF CUSTODY FORMS**



February 04, 2009

Steve Miller
TRC Environmental Corp.
505 East Huntland Drive Suite 250
Austin, Texas 78752

Order No: 0901133

TEL: (512) 329-6080
FAX: (512) 329-8750

RE: RRC Wendkirk BMP

Dear Steve Miller:

DHL Analytical received 17 sample(s) on 1/23/2009 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "John DuPont". The signature is fluid and cursive.

John DuPont
Lab Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-08A-TX



Table of Contents

Miscellaneous Documents	3
Case Narrative	7
Sample Summary	8
Prep Dates Report	9
Analytical Dates Report	14
Sample Results	19
Analytical QC Summary Report	36



2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

No 39163
CHAIN-OF-CUSTODY

CLIENT: TRC
ADDRESS: 505 E. Huntland Dr., Suite 250, Austin
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DATE: 1/22/2009 PAGE 1 OF 2
PO #: 165033.0000.0000 PH.1 DHL WORK ORDER #: 0901133
PROJECT LOCATION OR NAME: RRC Newkirk BMP
CLIENT PROJECT #: 165033 COLLECTOR: C. MANSURI

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	PRESERVATION					ANALYSES																				FIELD NOTES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
							HCl	HNO ₃	H ₂ SO ₄ / NaOH	ICE	UNPRESERVED	RTX	MTBE	TPH 4 & 1	TPH 1005	TPH 1006	DIESEL - MOD 8015	VOC 1000	SVOC 1000	PAH 1000	PAH 1001	PAH 1002	PAH 1003	PAH 1004	PAH 1005	PAH 1006	PAH 1007	PAH 1008	PAH 1009	PAH 1010	PAH 1011		PAH 1012	PAH 1013	PAH 1014	PAH 1015	PAH 1016	PAH 1017	PAH 1018	PAH 1019	PAH 1020	PAH 1021	PAH 1022	PAH 1023	PAH 1024	PAH 1025	PAH 1026	PAH 1027	PAH 1028	PAH 1029	PAH 1030	PAH 1031	PAH 1032	PAH 1033	PAH 1034	PAH 1035	PAH 1036	PAH 1037	PAH 1038	PAH 1039	PAH 1040	PAH 1041	PAH 1042	PAH 1043	PAH 1044	PAH 1045	PAH 1046	PAH 1047	PAH 1048	PAH 1049	PAH 1050	PAH 1051	PAH 1052	PAH 1053	PAH 1054	PAH 1055	PAH 1056	PAH 1057	PAH 1058	PAH 1059	PAH 1060	PAH 1061	PAH 1062	PAH 1063	PAH 1064	PAH 1065	PAH 1066	PAH 1067	PAH 1068	PAH 1069	PAH 1070	PAH 1071	PAH 1072	PAH 1073	PAH 1074	PAH 1075	PAH 1076	PAH 1077	PAH 1078	PAH 1079	PAH 1080	PAH 1081	PAH 1082	PAH 1083	PAH 1084	PAH 1085	PAH 1086	PAH 1087	PAH 1088	PAH 1089	PAH 1090	PAH 1091	PAH 1092	PAH 1093	PAH 1094	PAH 1095	PAH 1096	PAH 1097	PAH 1098	PAH 1099	PAH 1100	PAH 1101	PAH 1102	PAH 1103	PAH 1104	PAH 1105	PAH 1106	PAH 1107	PAH 1108	PAH 1109	PAH 1110	PAH 1111	PAH 1112	PAH 1113	PAH 1114	PAH 1115	PAH 1116	PAH 1117	PAH 1118	PAH 1119	PAH 1120	PAH 1121	PAH 1122	PAH 1123	PAH 1124	PAH 1125	PAH 1126	PAH 1127	PAH 1128	PAH 1129	PAH 1130	PAH 1131	PAH 1132	PAH 1133	PAH 1134	PAH 1135	PAH 1136	PAH 1137	PAH 1138	PAH 1139	PAH 1140	PAH 1141	PAH 1142	PAH 1143	PAH 1144	PAH 1145	PAH 1146	PAH 1147	PAH 1148	PAH 1149	PAH 1150	PAH 1151	PAH 1152	PAH 1153	PAH 1154	PAH 1155	PAH 1156	PAH 1157	PAH 1158	PAH 1159	PAH 1160	PAH 1161	PAH 1162	PAH 1163	PAH 1164	PAH 1165	PAH 1166	PAH 1167	PAH 1168	PAH 1169	PAH 1170	PAH 1171	PAH 1172	PAH 1173	PAH 1174	PAH 1175	PAH 1176	PAH 1177	PAH 1178	PAH 1179	PAH 1180	PAH 1181	PAH 1182	PAH 1183	PAH 1184	PAH 1185	PAH 1186	PAH 1187	PAH 1188	PAH 1189	PAH 1190	PAH 1191	PAH 1192	PAH 1193	PAH 1194	PAH 1195	PAH 1196	PAH 1197	PAH 1198	PAH 1199	PAH 1200	PAH 1201	PAH 1202	PAH 1203	PAH 1204	PAH 1205	PAH 1206	PAH 1207	PAH 1208	PAH 1209	PAH 1210	PAH 1211	PAH 1212	PAH 1213	PAH 1214	PAH 1215	PAH 1216	PAH 1217	PAH 1218	PAH 1219	PAH 1220	PAH 1221	PAH 1222	PAH 1223	PAH 1224	PAH 1225	PAH 1226	PAH 1227	PAH 1228	PAH 1229	PAH 1230	PAH 1231	PAH 1232	PAH 1233	PAH 1234	PAH 1235	PAH 1236	PAH 1237	PAH 1238	PAH 1239	PAH 1240	PAH 1241	PAH 1242	PAH 1243	PAH 1244	PAH 1245	PAH 1246	PAH 1247	PAH 1248	PAH 1249	PAH 1250	PAH 1251	PAH 1252	PAH 1253	PAH 1254	PAH 1255	PAH 1256	PAH 1257	PAH 1258	PAH 1259	PAH 1260	PAH 1261	PAH 1262	PAH 1263	PAH 1264	PAH 1265	PAH 1266	PAH 1267	PAH 1268	PAH 1269	PAH 1270	PAH 1271	PAH 1272	PAH 1273	PAH 1274	PAH 1275	PAH 1276	PAH 1277	PAH 1278	PAH 1279	PAH 1280	PAH 1281	PAH 1282	PAH 1283	PAH 1284	PAH 1285	PAH 1286	PAH 1287	PAH 1288	PAH 1289	PAH 1290	PAH 1291	PAH 1292	PAH 1293	PAH 1294	PAH 1295	PAH 1296	PAH 1297	PAH 1298	PAH 1299	PAH 1300	PAH 1301	PAH 1302	PAH 1303	PAH 1304	PAH 1305	PAH 1306	PAH 1307	PAH 1308	PAH 1309	PAH 1310	PAH 1311	PAH 1312	PAH 1313	PAH 1314	PAH 1315	PAH 1316	PAH 1317	PAH 1318	PAH 1319	PAH 1320	PAH 1321	PAH 1322	PAH 1323	PAH 1324	PAH 1325	PAH 1326	PAH 1327	PAH 1328	PAH 1329	PAH 1330	PAH 1331	PAH 1332	PAH 1333	PAH 1334	PAH 1335	PAH 1336	PAH 1337	PAH 1338	PAH 1339	PAH 1340	PAH 1341	PAH 1342	PAH 1343	PAH 1344	PAH 1345	PAH 1346	PAH 1347	PAH 1348	PAH 1349	PAH 1350	PAH 1351	PAH 1352	PAH 1353	PAH 1354	PAH 1355	PAH 1356	PAH 1357	PAH 1358	PAH 1359	PAH 1360	PAH 1361	PAH 1362	PAH 1363	PAH 1364	PAH 1365	PAH 1366	PAH 1367	PAH 1368	PAH 1369	PAH 1370	PAH 1371	PAH 1372	PAH 1373	PAH 1374	PAH 1375	PAH 1376	PAH 1377	PAH 1378	PAH 1379	PAH 1380	PAH 1381	PAH 1382	PAH 1383	PAH 1384	PAH 1385	PAH 1386	PAH 1387	PAH 1388	PAH 1389	PAH 1390	PAH 1391	PAH 1392	PAH 1393	PAH 1394	PAH 1395	PAH 1396	PAH 1397	PAH 1398	PAH 1399	PAH 1400	PAH 1401	PAH 1402	PAH 1403	PAH 1404	PAH 1405	PAH 1406	PAH 1407	PAH 1408	PAH 1409	PAH 1410	PAH 1411	PAH 1412	PAH 1413	PAH 1414	PAH 1415	PAH 1416	PAH 1417	PAH 1418	PAH 1419	PAH 1420	PAH 1421	PAH 1422	PAH 1423	PAH 1424	PAH 1425	PAH 1426	PAH 1427	PAH 1428	PAH 1429	PAH 1430	PAH 1431	PAH 1432	PAH 1433	PAH 1434	PAH 1435	PAH 1436	PAH 1437	PAH 1438	PAH 1439	PAH 1440	PAH 1441	PAH 1442	PAH 1443	PAH 1444	PAH 1445	PAH 1446	PAH 1447	PAH 1448	PAH 1449	PAH 1450	PAH 1451	PAH 1452	PAH 1453	PAH 1454	PAH 1455	PAH 1456	PAH 1457	PAH 1458	PAH 1459	PAH 1460	PAH 1461	PAH 1462	PAH 1463	PAH 1464	PAH 1465	PAH 1466	PAH 1467	PAH 1468	PAH 1469	PAH 1470	PAH 1471	PAH 1472	PAH 1473	PAH 1474	PAH 1475	PAH 1476	PAH 1477	PAH 1478	PAH 1479	PAH 1480	PAH 1481	PAH 1482	PAH 1483	PAH 1484	PAH 1485	PAH 1486	PAH 1487	PAH 1488	PAH 1489	PAH 1490	PAH 1491	PAH 1492	PAH 1493	PAH 1494	PAH 1495	PAH 1496	PAH 1497	PAH 1498	PAH 1499	PAH 1500	PAH 1501	PAH 1502	PAH 1503	PAH 1504	PAH 1505	PAH 1506	PAH 1507	PAH 1508	PAH 1509	PAH 1510	PAH 1511	PAH 1512	PAH 1513	PAH 1514	PAH 1515	PAH 1516	PAH 1517	PAH 1518	PAH 1519	PAH 1520	PAH 1521	PAH 1522	PAH 1523	PAH 1524	PAH 1525	PAH 1526	PAH 1527	PAH 1528	PAH 1529	PAH 1530	PAH 1531	PAH 1532	PAH 1533	PAH 1534	PAH 1535	PAH 1536	PAH 1537	PAH 1538	PAH 1539	PAH 1540	PAH 1541	PAH 1542	PAH 1543	PAH 1544	PAH 1545	PAH 1546	PAH 1547	PAH 1548	PAH 1549	PAH 1550	PAH 1551	PAH 1552	PAH 1553	PAH 1554	PAH 1555	PAH 1556	PAH 1557	PAH 1558	PAH 1559	PAH 1560	PAH 1561	PAH 1562	PAH 1563	PAH 1564	PAH 1565	PAH 1566	PAH 1567	PAH 1568	PAH 1569	PAH 1570	PAH 1571	PAH 1572	PAH 1573	PAH 1574	PAH 1575	PAH 1576	PAH 1577	PAH 1578	PAH 1579	PAH 1580	PAH 1581	PAH 1582	PAH 1583	PAH 1584	PAH 1585	PAH 1586	PAH 1587	PAH 1588	PAH 1589	PAH 1590	PAH 1591	PAH 1592	PAH 1593	PAH 1594	PAH 1595	PAH 1596	PAH 1597	PAH 1598	PAH 1599	PAH 1600	PAH 1601	PAH 1602	PAH 1603	PAH 1604	PAH 1605	PAH 1606	PAH 1607	PAH 1608	PAH 1609	PAH 1610	PAH 1611	PAH 1612	PAH 1613	PAH 1614	PAH 1615	PAH 1616	PAH 1617	PAH 1618	PAH 1619	PAH 1620	PAH 1621	PAH 1622	PAH 1623	PAH 1624	PAH 1625	PAH 1626	PAH 1627	PAH 1628	PAH 1629	PAH 1630	PAH 1631	PAH 1632	PAH 1633	PAH 1634	PAH 1635	PAH 1636	PAH 1637	PAH 1638	PAH 1639	PAH 1640	PAH 1641	PAH 1642	PAH 1643	PAH 1644	PAH 1645	PAH 1646	PAH 1647	PAH 1648	PAH 1649	PAH 1650	PAH 1651	PAH 1652	PAH 1653	PAH 1654	PAH 1655	PAH 1656	PAH 1657	PAH 1658	PAH 1659	PAH 1660	PAH 1661	PAH 1662	PAH 1663	PAH 1664	PAH 1665	PAH 1666	PAH 1667	PAH 1668	PAH 1669	PAH 1670	PAH 1671	PAH 1672	PAH 1673	PAH 1674	PAH 1675	PAH 1676	PAH 1677	PAH 1678	PAH 1679	PAH 1680	PAH 1681	PAH 1682	PAH 1683	PAH 1684	PAH 1685	PAH 1686	PAH 1687	PAH 1688	PAH 1689	PAH 1690	PAH 1691	PAH 1692	PAH 1693	PAH 1694	PAH 1695	PAH 1696	PAH 1697	PAH 1698	PAH 1699	PAH 1700	PAH 1701	PAH 1702	PAH 1703	PAH 1704	PAH 1705	PAH 1706	PAH 1707	PAH 1708	PAH 1709	PAH 1710	PAH 1711	PAH 1712	PAH 1713	PAH 1714	PAH 1715	PAH 1716	PAH 1717	PAH 1718	PAH 1719	PAH 1720	PAH 1721	PAH 1722	PAH 1723	PAH 1724	PAH 1725	PAH 1726	PAH 1727	PAH 1728	PAH 1729	PAH 1730	PAH 1731	PAH 1732	PAH 1733	PAH 1734	PAH 1735	PAH 1736	PAH 1737	PAH 1738	PAH 1739	PAH 1740	PAH 1741	PAH 1742	PAH 1743	PAH 1744	PAH 1745	PAH 1746	PAH 1747	PAH 1748	PAH 1749	PAH 1750	PAH 1751	PAH 1752	PAH 1753	PAH 1754	PAH 1755	PAH 1756	PAH 1757	PAH 1758	PAH 1759	PAH 1760	PAH 1761	PAH 1762	PAH 1763	PAH 1764	PAH 1765	PAH 1766	PAH 1767	PAH 1768	PAH 1769	PAH 1770	PAH 1771	PAH 1772	PAH 1773	PAH 1774	PAH 1775	PAH 1776	PAH 1777	PAH 1778	PAH 1779	PAH 1780	PAH 1781	PAH 1782	PAH 1783	PAH 1784	PAH 1785	PAH 1786	PAH 1787	PAH 1788	PAH 1789	PAH 1790	PAH 1791	PAH 1792	PAH 1793	PAH 1794	PAH 1795	PAH 1796	PAH 1797	PAH 1798	PAH 1799	PAH 1800	PAH 1801	PAH 1802	PAH 1803	PAH 1804	PAH 1805	PAH 1806	PAH 1807	PAH 1808	PAH 1809	PAH 1810	PAH 1811	PAH 1812	PAH 1813	PAH 1814	PAH 1815	PAH 1816	PAH 1817	PAH 1818	PAH 1819	PAH 1820	PAH 1821	PAH 1822	PAH 1823	PAH 1824	PAH 1825	PAH 1826	PAH 1827	PAH 1828	PAH 1829	PAH 1830	PAH 1831	PAH 1832	PAH 1833	PAH 1834	PAH 1835	PAH 1836	PAH 1837	PAH 1838	PAH 1839	PAH 1840	PAH 1841	PAH 1842	PAH 1843	PAH 1844	PAH 1845	PAH 1846	PAH 1847	PAH 1848	PAH 1849	PAH 1850	PAH 1851	PAH 1852	PAH 1853	PAH 1854	PAH 1855	PAH 1856	PAH 1857	PAH 1858	PAH 1859	PAH 1860	PAH 1861	PAH 1862	PAH 1863	PAH 1864	PAH 1865	PAH 1866	PAH 1867	PAH 1868	PAH 1869	PAH 1870	PAH 1871	PAH 1872	PAH 1873	PAH 1874	PAH 1875	PAH 1876	PAH 1877	PAH 1878	PAH 1879	PAH 1880	PAH 1881	PAH 1882	PAH 1883	PAH 1884	PAH 1885	PAH 1886	PAH 1887	PAH 1888	PAH 1889	PAH 1890	PAH 1891	PAH 1892	PAH 1893	PAH 1894	PAH 1895	PAH 1896	PAH 1897	PAH 1898	PAH 1899	PAH 1900	PAH 1901	PAH 1902	PAH 1903	PAH 1904	PAH 1905	PAH 1906	PAH 1907	PAH 1908	PAH 1909	PAH 1910	PAH 1911	PAH 1912	PAH 1913	PAH 1914	PAH 1915	PAH 1916	PAH 1917	PAH 1918	PAH 1919	PAH 1920	PAH 1921	PAH 1922	PAH 1923	PAH 1924	PAH 1925	PAH 1926	PAH 1927	PAH 1928	PAH 1929	PAH 1930	PAH 1931	PAH 1932	PAH 1933	PAH 1934	PAH 1935	PAH 1936	PAH 1937	PAH 1938	PAH 1939	PAH 1940	PAH 1941	PAH 1942	PAH 1943	PAH 1944	PAH 1945	PAH 1946	PAH 1947	PAH 1948	PAH 1949	PAH 1950	PAH 1951	PAH 1952	PAH 1953	PAH 1954	PAH 1955	PAH 1956	PAH 1957	PAH 1958	PAH 1959

CUSTODY SEAL	
Date: 1/23/09	Time: 5
Name: [Signature]	
Company: TRC	

[Signature]	Seal Broken By: [Signature]
	Date: 1/23/09

CUSTODY SEAL	
Date: 1/23/09	Time: 3
Name: [Signature]	
Company: TRC	

[Signature]	Seal Broken By: [Signature]
	Date: 1/23/09

5

DHL Analytical

Sample Receipt Checklist

Client Name TRC Environmental Corp.

Date Received: 1/23/2009

Work Order Number 0901133

Received by JB

Checklist completed by: JB 1/23/09
Signature Date

Reviewed by JD 01/23/09
Initials Date

Carrier name: Hand Delivered

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	3.1 °C, 0.9 °
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☒	No ☐	Not Applicable ☐

Adjusted? NO Checked by JD

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

CLIENT: TRC Environmental Corp.
Project: RRC Wendkirk BMP
Lab Order: 0901133

CASE NARRATIVE

The samples were analyzed using the methods outlined in the following references:

Method SW6020 - Trace Metals: ICP-MS - Water
Method E300 - Anions by IC method - Water
Method M2320 B - Alkalinity
Method M2510B - Specific Conductance
Method M2540C - Total Dissolved Solids

LOG IN

A total of 17 samples were received and logged-in on 1/23/2009. The samples arrived in good condition and were properly packaged.

TOTAL DISSOLVED SOLIDS

For Total Dissolved Solids Analysis, the RPD of the Sample Duplicate (0901138-09 DUP) was above the control limit. This was flagged accordingly in the enclosed QC Summary Report. This Prep Batch contained two sets of Sample Duplicates, and Sample Duplicate (0901133-10 DUP) was within the control limits. The LCS-33182 for this Prep Batch was within control limits. The reference sample selected for the Sample Duplicate (0901138-09 DUP) was not from this work order, and the Sample Duplicate (0901133-10 DUP) was from this work order. No further corrective actions were taken.

TRACE METALS ANALYSIS

For Trace Metals Analysis, the recoveries of the Matrix Spike and Matrix Spike Duplicate (0901133-10 MS/MSD) were below the control limits for Calcium, Magnesium and Sodium. These were flagged accordingly in the enclosed QC Summary Report. The LCS-33148 was within control limits for these analytes. The reference sample selected for the MS/MSD was from this work order. No further corrective actions were taken.

CLIENT: TRC Environmental Corp.
Project: RRC Wendkirk BMP
Lab Order: 0901133

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
0901133-01	W-MW-6		01/21/09 10:32 AM	01/23/09
0901133-02	W-MW-3		01/21/09 11:40 AM	01/23/09
0901133-03	W-MW-2		01/21/09 11:42 AM	01/23/09
0901133-04	W-MW-1		01/21/09 12:40 PM	01/23/09
0901133-05	W-MW-15		01/21/09 12:50 PM	01/23/09
0901133-06	W-MW-11		01/21/09 01:40 PM	01/23/09
0901133-07	W-MW-18		01/21/09 02:10 PM	01/23/09
0901133-08	W-MW18-D		01/21/09 02:10 PM	01/23/09
0901133-09	W-MW-05		01/21/09 02:15 PM	01/23/09
0901133-10	W-MW-10		01/21/09 02:34 PM	01/23/09
0901133-11	W-MW-12		01/21/09 03:36 PM	01/23/09
0901133-12	W-WW-MAYS-02		01/21/09 04:40 PM	01/23/09
0901133-13	W-MW-19		01/22/09 11:40 AM	01/23/09
0901133-14	W-MW-20		01/22/09 12:00 PM	01/23/09
0901133-15	W-OW-1		01/22/09 01:10 PM	01/23/09
0901133-16	W-MW-17		01/22/09 01:22 PM	01/23/09
0901133-17	W-EB-1		01/22/09 01:35 PM	01/23/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Lab Order: 0901133

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0901133-01A	W-MW-6	01/21/09 10:32 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
	W-MW-6	01/21/09 10:32 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
0901133-01B	W-MW-6	01/21/09 10:32 AM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
	W-MW-6	01/21/09 10:32 AM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
	W-MW-6	01/21/09 10:32 AM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
0901133-01C	W-MW-6	01/21/09 10:32 AM	Aqueous	M2320 B	Alkalinity Preparation	01/26/09 12:30 PM	33166
	W-MW-6	01/21/09 10:32 AM	Aqueous	M2510 B	Conductivity Preparation	01/26/09 03:30 PM	33168
	W-MW-6	01/21/09 10:32 AM	Aqueous	M2540C	TDS Preparation	01/27/09 09:30 AM	33182
0901133-02A	W-MW-3	01/21/09 11:40 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
	W-MW-3	01/21/09 11:40 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
0901133-02B	W-MW-3	01/21/09 11:40 AM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
	W-MW-3	01/21/09 11:40 AM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
0901133-02C	W-MW-3	01/21/09 11:40 AM	Aqueous	M2320 B	Alkalinity Preparation	01/26/09 12:30 PM	33166
	W-MW-3	01/21/09 11:40 AM	Aqueous	M2510 B	Conductivity Preparation	01/26/09 03:30 PM	33168
	W-MW-3	01/21/09 11:40 AM	Aqueous	M2540C	TDS Preparation	01/27/09 09:30 AM	33182
0901133-03A	W-MW-2	01/21/09 11:42 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
	W-MW-2	01/21/09 11:42 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
0901133-03B	W-MW-2	01/21/09 11:42 AM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
	W-MW-2	01/21/09 11:42 AM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
	W-MW-2	01/21/09 11:42 AM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
0901133-03C	W-MW-2	01/21/09 11:42 AM	Aqueous	M2320 B	Alkalinity Preparation	01/26/09 12:30 PM	33166
	W-MW-2	01/21/09 11:42 AM	Aqueous	M2510 B	Conductivity Preparation	01/26/09 03:30 PM	33168
	W-MW-2	01/21/09 11:42 AM	Aqueous	M2540C	TDS Preparation	01/27/09 09:30 AM	33182
0901133-04A	W-MW-1	01/21/09 12:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
	W-MW-1	01/21/09 12:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
0901133-04B	W-MW-1	01/21/09 12:40 PM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
	W-MW-1	01/21/09 12:40 PM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
	W-MW-1	01/21/09 12:40 PM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
0901133-04C	W-MW-1	01/21/09 12:40 PM	Aqueous	M2320 B	Alkalinity Preparation	01/26/09 12:30 PM	33166

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Lab Order: 0901133

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	W-MW-1	01/21/09 12:40 PM	Aqueous	M2510 B	Conductivity Preparation	01/26/09 03:30 PM	33168
	W-MW-1	01/21/09 12:40 PM	Aqueous	M2540C	TDS Preparation	01/27/09 09:30 AM	33182
0901133-05A	W-MW-15	01/21/09 12:50 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
	W-MW-15	01/21/09 12:50 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
0901133-05B	W-MW-15	01/21/09 12:50 PM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
	W-MW-15	01/21/09 12:50 PM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
0901133-05C	W-MW-15	01/21/09 12:50 PM	Aqueous	M2320 B	Alkalinity Preparation	01/26/09 12:30 PM	33166
	W-MW-15	01/21/09 12:50 PM	Aqueous	M2510 B	Conductivity Preparation	01/26/09 03:30 PM	33168
	W-MW-15	01/21/09 12:50 PM	Aqueous	M2540C	TDS Preparation	01/27/09 09:30 AM	33182
0901133-06A	W-MW-11	01/21/09 01:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
	W-MW-11	01/21/09 01:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
0901133-06B	W-MW-11	01/21/09 01:40 PM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
	W-MW-11	01/21/09 01:40 PM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
	W-MW-11	01/21/09 01:40 PM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
0901133-06C	W-MW-11	01/21/09 01:40 PM	Aqueous	M2320 B	Alkalinity Preparation	01/26/09 12:30 PM	33166
	W-MW-11	01/21/09 01:40 PM	Aqueous	M2510 B	Conductivity Preparation	01/26/09 03:30 PM	33168
	W-MW-11	01/21/09 01:40 PM	Aqueous	M2540C	TDS Preparation	01/27/09 09:30 AM	33182
0901133-07A	W-MW-18	01/21/09 02:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
	W-MW-18	01/21/09 02:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
0901133-07B	W-MW-18	01/21/09 02:10 PM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
	W-MW-18	01/21/09 02:10 PM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
	W-MW-18	01/21/09 02:10 PM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
0901133-07C	W-MW-18	01/21/09 02:10 PM	Aqueous	M2320 B	Alkalinity Preparation	01/26/09 12:30 PM	33166
	W-MW-18	01/21/09 02:10 PM	Aqueous	M2510 B	Conductivity Preparation	01/26/09 03:30 PM	33168
	W-MW-18	01/21/09 02:10 PM	Aqueous	M2540C	TDS Preparation	01/27/09 09:30 AM	33182
0901133-08A	W-MW18-D	01/21/09 02:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
	W-MW18-D	01/21/09 02:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
0901133-08B	W-MW18-D	01/21/09 02:10 PM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
	W-MW18-D	01/21/09 02:10 PM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Lab Order: 0901133

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0901133-08C	W-MW18-D	01/21/09 02:10 PM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
	W-MW18-D	01/21/09 02:10 PM	Aqueous	M2320 B	Alkalinity Preparation	01/26/09 12:30 PM	33166
	W-MW18-D	01/21/09 02:10 PM	Aqueous	M2510 B	Conductivity Preparation	01/26/09 03:30 PM	33168
0901133-09A	W-MW18-D	01/21/09 02:10 PM	Aqueous	M2540C	TDS Preparation	01/27/09 09:30 AM	33182
	W-MW-05	01/21/09 02:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
	W-MW-05	01/21/09 02:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
0901133-09B	W-MW-05	01/21/09 02:15 PM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
	W-MW-05	01/21/09 02:15 PM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
	W-MW-05	01/21/09 02:15 PM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
0901133-09C	W-MW-05	01/21/09 02:15 PM	Aqueous	M2320 B	Alkalinity Preparation	01/26/09 12:30 PM	33166
	W-MW-05	01/21/09 02:15 PM	Aqueous	M2510 B	Conductivity Preparation	01/26/09 03:30 PM	33168
	W-MW-05	01/21/09 02:15 PM	Aqueous	M2540C	TDS Preparation	01/27/09 09:30 AM	33182
0901133-10A	W-MW-10	01/21/09 02:34 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
	W-MW-10	01/21/09 02:34 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
	W-MW-10	01/21/09 02:34 PM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
0901133-10B	W-MW-10	01/21/09 02:34 PM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
	W-MW-10	01/21/09 02:34 PM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
	W-MW-10	01/21/09 02:34 PM	Aqueous	E300	Anion Preparation	01/26/09 09:00 AM	33157
0901133-10C	W-MW-10	01/21/09 02:34 PM	Aqueous	M2320 B	Alkalinity Preparation	01/26/09 12:30 PM	33166
	W-MW-10	01/21/09 02:34 PM	Aqueous	M2510 B	Conductivity Preparation	01/26/09 03:30 PM	33168
	W-MW-10	01/21/09 02:34 PM	Aqueous	M2540C	TDS Preparation	01/27/09 09:30 AM	33182
0901133-11A	W-MW-12	01/21/09 03:36 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
	W-MW-12	01/21/09 03:36 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
	W-MW-12	01/21/09 03:36 PM	Aqueous	E300	Anion Preparation	01/26/09 09:10 AM	33158
0901133-11B	W-MW-12	01/21/09 03:36 PM	Aqueous	E300	Anion Preparation	01/26/09 09:10 AM	33158
	W-MW-12	01/21/09 03:36 PM	Aqueous	E300	Anion Preparation	01/26/09 09:10 AM	33158
	W-MW-12	01/21/09 03:36 PM	Aqueous	E300	Anion Preparation	01/26/09 09:10 AM	33158
0901133-11C	W-MW-12	01/21/09 03:36 PM	Aqueous	E300	Anion Preparation	01/26/09 09:10 AM	33158
	W-MW-12	01/21/09 03:36 PM	Aqueous	M2320 B	Alkalinity Preparation	01/26/09 12:30 PM	33166
	W-MW-12	01/21/09 03:36 PM	Aqueous	M2510 B	Conductivity Preparation	01/26/09 03:30 PM	33168
	W-MW-12	01/21/09 03:36 PM	Aqueous	M2540C	TDS Preparation	01/27/09 09:30 AM	33182

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Lab Order: 0901133

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0901133-12A	W-WW-MAYS-02	01/21/09 04:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
	W-WW-MAYS-02	01/21/09 04:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
	W-WW-MAYS-02	01/21/09 04:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
0901133-12B	W-WW-MAYS-02	01/21/09 04:40 PM	Aqueous	E300	Anion Preparation	01/26/09 09:10 AM	33158
	W-WW-MAYS-02	01/21/09 04:40 PM	Aqueous	E300	Anion Preparation	01/26/09 09:10 AM	33158
	W-WW-MAYS-02	01/21/09 04:40 PM	Aqueous	E300	Anion Preparation	01/26/09 09:10 AM	33158
	W-WW-MAYS-02	01/21/09 04:40 PM	Aqueous	E300	Anion Preparation	01/26/09 09:10 AM	33158
0901133-12C	W-WW-MAYS-02	01/21/09 04:40 PM	Aqueous	M2320 B	Alkalinity Preparation	01/26/09 12:30 PM	33166
	W-WW-MAYS-02	01/21/09 04:40 PM	Aqueous	M2510 B	Conductivity Preparation	01/26/09 03:30 PM	33168
	W-WW-MAYS-02	01/21/09 04:40 PM	Aqueous	M2540C	TDS Preparation	01/27/09 09:30 AM	33182
0901133-13A	W-MW-19	01/22/09 11:40 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
	W-MW-19	01/22/09 11:40 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
0901133-13B	W-MW-19	01/22/09 11:40 AM	Aqueous	E300	Anion Preparation	01/26/09 09:10 AM	33158
	W-MW-19	01/22/09 11:40 AM	Aqueous	E300	Anion Preparation	01/26/09 09:10 AM	33158
	W-MW-19	01/22/09 11:40 AM	Aqueous	E300	Anion Preparation	01/26/09 09:10 AM	33158
	W-MW-19	01/22/09 11:40 AM	Aqueous	E300	Anion Preparation	01/26/09 09:10 AM	33158
0901133-13C	W-MW-19	01/22/09 11:40 AM	Aqueous	M2320 B	Alkalinity Preparation	01/26/09 12:30 PM	33166
	W-MW-19	01/22/09 11:40 AM	Aqueous	M2510 B	Conductivity Preparation	01/26/09 03:30 PM	33168
	W-MW-19	01/22/09 11:40 AM	Aqueous	M2540C	TDS Preparation	01/29/09 08:48 AM	33204
0901133-14A	W-MW-20	01/22/09 12:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
	W-MW-20	01/22/09 12:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
0901133-14B	W-MW-20	01/22/09 12:00 PM	Aqueous	E300	Anion Preparation	01/26/09 09:10 AM	33158
	W-MW-20	01/22/09 12:00 PM	Aqueous	E300	Anion Preparation	01/26/09 09:10 AM	33158
0901133-14C	W-MW-20	01/22/09 12:00 PM	Aqueous	M2320 B	Alkalinity Preparation	01/26/09 12:30 PM	33166
	W-MW-20	01/22/09 12:00 PM	Aqueous	M2510 B	Conductivity Preparation	01/26/09 03:30 PM	33168
	W-MW-20	01/22/09 12:00 PM	Aqueous	M2540C	TDS Preparation	01/29/09 08:48 AM	33204
0901133-15A	W-OW-1	01/22/09 01:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
	W-OW-1	01/22/09 01:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
	W-OW-1	01/22/09 01:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148

CLIENT: TRC Environmental Corp.
Project: RRC Wendkirk BMP
Lab Order: 0901133

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0901133-15B	W-OW-1	01/22/09 01:10 PM	Aqueous	E300	Anion Preparation	01/26/09 09:10 AM	33158
	W-OW-1	01/22/09 01:10 PM	Aqueous	E300	Anion Preparation	01/26/09 09:10 AM	33158
	W-OW-1	01/22/09 01:10 PM	Aqueous	E300	Anion Preparation	01/26/09 09:10 AM	33158
0901133-15C	W-OW-1	01/22/09 01:10 PM	Aqueous	M2320 B	Alkalinity Preparation	01/26/09 12:30 PM	33166
	W-OW-1	01/22/09 01:10 PM	Aqueous	M2510 B	Conductivity Preparation	01/26/09 03:30 PM	33168
	W-OW-1	01/22/09 01:10 PM	Aqueous	M2540C	TDS Preparation	01/29/09 08:48 AM	33204
0901133-16A	W-MW-17	01/22/09 01:22 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
	W-MW-17	01/22/09 01:22 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
0901133-16B	W-MW-17	01/22/09 01:22 PM	Aqueous	E300	Anion Preparation	01/26/09 09:10 AM	33158
	W-MW-17	01/22/09 01:22 PM	Aqueous	E300	Anion Preparation	01/26/09 09:10 AM	33158
0901133-16C	W-MW-17	01/22/09 01:22 PM	Aqueous	M2320 B	Alkalinity Preparation	01/26/09 12:30 PM	33166
	W-MW-17	01/22/09 01:22 PM	Aqueous	M2510 B	Conductivity Preparation	01/26/09 03:30 PM	33168
	W-MW-17	01/22/09 01:22 PM	Aqueous	M2540C	TDS Preparation	01/29/09 08:48 AM	33204
0901133-17A	W-EB-1	01/22/09 01:35 PM	Equip Blank	SW3005A	Aq Prep Metals : ICP-MS	01/26/09 08:49 AM	33148
0901133-17B	W-EB-1	01/22/09 01:35 PM	Equip Blank	E300	Anion Preparation	01/26/09 09:10 AM	33158
0901133-17C	W-EB-1	01/22/09 01:35 PM	Equip Blank	M2320 B	Alkalinity Preparation	01/26/09 12:30 PM	33166
	W-EB-1	01/22/09 01:35 PM	Equip Blank	M2510 B	Conductivity Preparation	01/26/09 03:30 PM	33168
	W-EB-1	01/22/09 01:35 PM	Equip Blank	M2540C	TDS Preparation	01/29/09 08:48 AM	33204

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Lab Order: 0901133

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0901133-01A	W-MW-6	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	500	01/30/09 06:25 PM	ICP-MS3_090130A
	W-MW-6	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	50	02/02/09 02:48 PM	ICP-MS3_090202B
0901133-01B	W-MW-6	Aqueous	E300	Anions by IC method - Water	33157	100	01/26/09 10:07 AM	IC2_090126A
	W-MW-6	Aqueous	E300	Anions by IC method - Water	33157	1000	01/26/09 01:21 PM	IC2_090126A
	W-MW-6	Aqueous	E300	Anions by IC method - Water	33157	1	01/26/09 03:35 PM	IC2_090126A
0901133-01C	W-MW-6	Aqueous	M2320 B	Alkalinity	33166	1	01/26/09 01:47 PM	TITRATOR_090126A
	W-MW-6	Aqueous	M2510 B	Specific Conductance	33168	1	01/26/09 03:30 AM	WC_090126A
	W-MW-6	Aqueous	M2540C	Total Dissolved Solids	33182	1	01/27/09 09:30 AM	WC_090127A
0901133-02A	W-MW-3	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	500	01/30/09 07:01 PM	ICP-MS3_090130A
	W-MW-3	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	50	02/02/09 02:53 PM	ICP-MS3_090202B
0901133-02B	W-MW-3	Aqueous	E300	Anions by IC method - Water	33157	100	01/26/09 10:21 AM	IC2_090126A
	W-MW-3	Aqueous	E300	Anions by IC method - Water	33157	1	01/26/09 03:49 PM	IC2_090126A
0901133-02C	W-MW-3	Aqueous	M2320 B	Alkalinity	33166	1	01/26/09 02:03 PM	TITRATOR_090126A
	W-MW-3	Aqueous	M2510 B	Specific Conductance	33168	1	01/26/09 03:30 AM	WC_090126A
	W-MW-3	Aqueous	M2540C	Total Dissolved Solids	33182	1	01/27/09 09:30 AM	WC_090127A
0901133-03A	W-MW-2	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	100	01/30/09 07:06 PM	ICP-MS3_090130A
	W-MW-2	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	10	02/02/09 02:58 PM	ICP-MS3_090202B
0901133-03B	W-MW-2	Aqueous	E300	Anions by IC method - Water	33157	100	01/26/09 10:36 AM	IC2_090126A
	W-MW-2	Aqueous	E300	Anions by IC method - Water	33157	10	01/26/09 01:35 PM	IC2_090126A
	W-MW-2	Aqueous	E300	Anions by IC method - Water	33157	1	01/26/09 04:33 PM	IC2_090126A
0901133-03C	W-MW-2	Aqueous	M2320 B	Alkalinity	33166	1	01/26/09 02:09 PM	TITRATOR_090126A
	W-MW-2	Aqueous	M2510 B	Specific Conductance	33168	1	01/26/09 03:30 AM	WC_090126A
	W-MW-2	Aqueous	M2540C	Total Dissolved Solids	33182	1	01/27/09 09:30 AM	WC_090127A
0901133-04A	W-MW-1	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	1000	01/30/09 07:11 PM	ICP-MS3_090130A
	W-MW-1	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	100	02/02/09 03:03 PM	ICP-MS3_090202B
0901133-04B	W-MW-1	Aqueous	E300	Anions by IC method - Water	33157	100	01/26/09 10:51 AM	IC2_090126A
	W-MW-1	Aqueous	E300	Anions by IC method - Water	33157	1000	01/26/09 01:50 PM	IC2_090126A
	W-MW-1	Aqueous	E300	Anions by IC method - Water	33157	1	01/26/09 04:48 PM	IC2_090126A
0901133-04C	W-MW-1	Aqueous	M2320 B	Alkalinity	33166	1	01/26/09 02:21 PM	TITRATOR_090126A

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Lab Order: 0901133

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0901133-05A	W-MW-1	Aqueous	M2510 B	Specific Conductance	33168	2	01/26/09 03:30 AM	WC_090126A
	W-MW-1	Aqueous	M2540C	Total Dissolved Solids	33182	1	01/27/09 09:30 AM	WC_090127A
	W-MW-15	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	500	01/30/09 07:17 PM	ICP-MS3_090130A
	W-MW-15	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	50	02/02/09 03:30 PM	ICP-MS3_090202B
0901133-05B	W-MW-15	Aqueous	E300	Anions by IC method - Water	33157	100	01/26/09 11:05 AM	IC2_090126A
	W-MW-15	Aqueous	E300	Anions by IC method - Water	33157	1	01/26/09 05:02 PM	IC2_090126A
0901133-05C	W-MW-15	Aqueous	M2320 B	Alkalinity	33166	1	01/26/09 02:30 PM	TITRATOR_090126A
	W-MW-15	Aqueous	M2510 B	Specific Conductance	33168	1	01/26/09 03:30 AM	WC_090126A
	W-MW-15	Aqueous	M2540C	Total Dissolved Solids	33182	1	01/27/09 09:30 AM	WC_090127A
0901133-06A	W-MW-11	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	1000	01/30/09 07:22 PM	ICP-MS3_090130A
	W-MW-11	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	50	02/02/09 03:35 PM	ICP-MS3_090202B
0901133-06B	W-MW-11	Aqueous	E300	Anions by IC method - Water	33157	100	01/26/09 12:07 PM	IC2_090126A
	W-MW-11	Aqueous	E300	Anions by IC method - Water	33157	1000	01/26/09 02:05 PM	IC2_090126A
	W-MW-11	Aqueous	E300	Anions by IC method - Water	33157	1	01/26/09 05:46 PM	IC2_090126A
0901133-06C	W-MW-11	Aqueous	M2320 B	Alkalinity	33166	1	01/26/09 02:38 PM	TITRATOR_090126A
	W-MW-11	Aqueous	M2510 B	Specific Conductance	33168	2	01/26/09 03:30 AM	WC_090126A
	W-MW-11	Aqueous	M2540C	Total Dissolved Solids	33182	1	01/27/09 09:30 AM	WC_090127A
0901133-07A	W-MW-18	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	5000	01/30/09 07:27 PM	ICP-MS3_090130A
	W-MW-18	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	500	02/02/09 02:38 PM	ICP-MS3_090202B
0901133-07B	W-MW-18	Aqueous	E300	Anions by IC method - Water	33157	100	01/26/09 12:22 PM	IC2_090126A
	W-MW-18	Aqueous	E300	Anions by IC method - Water	33157	1000	01/26/09 02:19 PM	IC2_090126A
	W-MW-18	Aqueous	E300	Anions by IC method - Water	33157	10	01/27/09 10:28 AM	IC2_090127A
0901133-07C	W-MW-18	Aqueous	M2320 B	Alkalinity	33166	1	01/26/09 02:48 PM	TITRATOR_090126A
	W-MW-18	Aqueous	M2510 B	Specific Conductance	33168	5	01/26/09 03:30 AM	WC_090126A
	W-MW-18	Aqueous	M2540C	Total Dissolved Solids	33182	1	01/27/09 09:30 AM	WC_090127A
0901133-08A	W-MW18-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	5000	01/30/09 07:32 PM	ICP-MS3_090130A
	W-MW18-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	500	02/02/09 02:43 PM	ICP-MS3_090202B
0901133-08B	W-MW18-D	Aqueous	E300	Anions by IC method - Water	33157	100	01/26/09 12:37 PM	IC2_090126A
	W-MW18-D	Aqueous	E300	Anions by IC method - Water	33157	1000	01/26/09 02:51 PM	IC2_090126A

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Lab Order: 0901133

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0901133-08C	W-MW18-D	Aqueous	E300	Anions by IC method - Water	33157	10	01/27/09 10:43 AM	IC2_090127A
	W-MW18-D	Aqueous	M2320 B	Alkalinity	33166	1	01/26/09 03:03 PM	TITRATOR_090126A
	W-MW18-D	Aqueous	M2510 B	Specific Conductance	33168	5	01/26/09 03:30 AM	WC_090126A
0901133-09A	W-MW18-D	Aqueous	M2540C	Total Dissolved Solids	33182	1	01/27/09 09:30 AM	WC_090127A
	W-MW-05	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	1000	01/30/09 07:37 PM	ICP-MS3_090130A
	W-MW-05	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	100	02/02/09 03:51 PM	ICP-MS3_090202B
0901133-09B	W-MW-05	Aqueous	E300	Anions by IC method - Water	33157	100	01/26/09 12:51 PM	IC2_090126A
	W-MW-05	Aqueous	E300	Anions by IC method - Water	33157	1000	01/26/09 03:05 PM	IC2_090126A
	W-MW-05	Aqueous	E300	Anions by IC method - Water	33157	10	01/27/09 10:58 AM	IC2_090127A
0901133-09C	W-MW-05	Aqueous	M2320 B	Alkalinity	33166	1	01/26/09 03:12 PM	TITRATOR_090126A
	W-MW-05	Aqueous	M2510 B	Specific Conductance	33168	4	01/26/09 03:30 AM	WC_090126A
	W-MW-05	Aqueous	M2540C	Total Dissolved Solids	33182	1	01/27/09 09:30 AM	WC_090127A
0901133-10A	W-MW-10	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	1000	01/30/09 06:00 PM	ICP-MS3_090130A
	W-MW-10	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	100	02/02/09 03:56 PM	ICP-MS3_090202B
	W-MW-10	Aqueous	E300	Anions by IC method - Water	33157	100	01/26/09 01:06 PM	IC2_090126A
0901133-10B	W-MW-10	Aqueous	E300	Anions by IC method - Water	33157	1000	01/26/09 03:20 PM	IC2_090126A
	W-MW-10	Aqueous	E300	Anions by IC method - Water	33157	10	01/27/09 11:12 AM	IC2_090127A
	W-MW-10	Aqueous	M2320 B	Alkalinity	33166	1	01/26/09 03:18 PM	TITRATOR_090126A
0901133-10C	W-MW-10	Aqueous	M2510 B	Specific Conductance	33168	4	01/26/09 03:30 AM	WC_090126A
	W-MW-10	Aqueous	M2540C	Total Dissolved Solids	33182	1	01/27/09 09:30 AM	WC_090127A
	W-MW-10	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	1000	01/30/09 07:43 PM	ICP-MS3_090130A
0901133-11A	W-MW-12	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	100	02/02/09 04:02 PM	ICP-MS3_090202B
	W-MW-12	Aqueous	E300	Anions by IC method - Water	33158	100	01/26/09 10:45 AM	IC_090126A
	W-MW-12	Aqueous	E300	Anions by IC method - Water	33158	1000	01/26/09 01:08 PM	IC_090126A
0901133-11B	W-MW-12	Aqueous	E300	Anions by IC method - Water	33158	10	01/26/09 04:47 PM	IC_090126A
	W-MW-12	Aqueous	E300	Anions by IC method - Water	33158	1000	02/03/09 06:11 PM	IC2_090203A
	W-MW-12	Aqueous	M2320 B	Alkalinity	33166	1	01/26/09 03:28 PM	TITRATOR_090126A
0901133-11C	W-MW-12	Aqueous	M2510 B	Specific Conductance	33168	4	01/26/09 03:30 AM	WC_090126A
	W-MW-12	Aqueous	M2540C	Total Dissolved Solids	33182	1	01/27/09 09:30 AM	WC_090127A

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Lab Order: 0901133

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0901133-12A	W-WW-MAYS-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	1000	01/30/09 07:48 PM	ICP-MS3_090130A
	W-WW-MAYS-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	2000	02/02/09 02:27 PM	ICP-MS3_090202B
	W-WW-MAYS-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	100	02/02/09 04:07 PM	ICP-MS3_090202B
0901133-12B	W-WW-MAYS-02	Aqueous	E300	Anions by IC method - Water	33158	100	01/26/09 11:00 AM	IC_090126A
	W-WW-MAYS-02	Aqueous	E300	Anions by IC method - Water	33158	1000	01/26/09 01:23 PM	IC_090126A
	W-WW-MAYS-02	Aqueous	E300	Anions by IC method - Water	33158	10	01/26/09 05:02 PM	IC_090126A
	W-WW-MAYS-02	Aqueous	E300	Anions by IC method - Water	33158	1000	02/03/09 06:26 PM	IC2_090203A
0901133-12C	W-WW-MAYS-02	Aqueous	M2320 B	Alkalinity	33166	1	01/26/09 03:36 PM	TITRATOR_090126A
	W-WW-MAYS-02	Aqueous	M2510 B	Specific Conductance	33168	4	01/26/09 03:30 AM	WC_090126A
	W-WW-MAYS-02	Aqueous	M2540C	Total Dissolved Solids	33182	1	01/27/09 09:30 AM	WC_090127A
0901133-13A	W-MW-19	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	1000	01/30/09 08:24 PM	ICP-MS3_090130A
	W-MW-19	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	100	02/02/09 04:12 PM	ICP-MS3_090202B
0901133-13B	W-MW-19	Aqueous	E300	Anions by IC method - Water	33158	100	01/26/09 11:16 AM	IC_090126A
	W-MW-19	Aqueous	E300	Anions by IC method - Water	33158	1000	01/26/09 01:38 PM	IC_090126A
	W-MW-19	Aqueous	E300	Anions by IC method - Water	33158	10	01/26/09 05:18 PM	IC_090126A
	W-MW-19	Aqueous	E300	Anions by IC method - Water	33158	1000	02/03/09 06:41 PM	IC2_090203A
0901133-13C	W-MW-19	Aqueous	M2320 B	Alkalinity	33166	1	01/26/09 03:45 PM	TITRATOR_090126A
	W-MW-19	Aqueous	M2510 B	Specific Conductance	33168	2	01/26/09 03:30 AM	WC_090126A
	W-MW-19	Aqueous	M2540C	Total Dissolved Solids	33204	1	01/29/09 09:00 AM	WC_090129A
0901133-14A	W-MW-20	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	100	01/30/09 08:29 PM	ICP-MS3_090130A
	W-MW-20	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	10	02/02/09 04:34 PM	ICP-MS3_090202B
0901133-14B	W-MW-20	Aqueous	E300	Anions by IC method - Water	33158	100	01/26/09 11:32 AM	IC_090126A
	W-MW-20	Aqueous	E300	Anions by IC method - Water	33158	1	01/26/09 02:51 PM	IC_090126A
0901133-14C	W-MW-20	Aqueous	M2320 B	Alkalinity	33166	1	01/26/09 03:53 PM	TITRATOR_090126A
	W-MW-20	Aqueous	M2510 B	Specific Conductance	33168	1	01/26/09 03:30 AM	WC_090126A
	W-MW-20	Aqueous	M2540C	Total Dissolved Solids	33204	1	01/29/09 09:00 AM	WC_090129A
0901133-15A	W-OW-1	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	1000	01/30/09 08:34 PM	ICP-MS3_090130A
	W-OW-1	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	2000	02/02/09 02:32 PM	ICP-MS3_090202B
	W-OW-1	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	100	02/02/09 04:23 PM	ICP-MS3_090202B

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Lab Order: 0901133

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0901133-15B	W-OW-1	Aqueous	E300	Anions by IC method - Water	33158	100	01/26/09 11:47 AM	IC_090126A
	W-OW-1	Aqueous	E300	Anions by IC method - Water	33158	1000	01/26/09 01:52 PM	IC_090126A
	W-OW-1	Aqueous	E300	Anions by IC method - Water	33158	10	01/26/09 04:15 PM	IC_090126A
0901133-15C	W-OW-1	Aqueous	M2320 B	Alkalinity	33166	1	01/26/09 04:04 PM	TITRATOR_090126A
	W-OW-1	Aqueous	M2510 B	Specific Conductance	33168	5	01/26/09 03:30 AM	WC_090126A
	W-OW-1	Aqueous	M2540C	Total Dissolved Solids	33204	1	01/29/09 09:00 AM	WC_090129A
0901133-16A	W-MW-17	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	500	01/30/09 08:39 PM	ICP-MS3_090130A
	W-MW-17	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33148	100	02/02/09 04:28 PM	ICP-MS3_090202B
0901133-16B	W-MW-17	Aqueous	E300	Anions by IC method - Water	33158	100	01/26/09 12:03 PM	IC_090126A
	W-MW-17	Aqueous	E300	Anions by IC method - Water	33158	1	01/26/09 04:31 PM	IC_090126A
0901133-16C	W-MW-17	Aqueous	M2320 B	Alkalinity	33166	1	01/26/09 04:12 PM	TITRATOR_090126A
	W-MW-17	Aqueous	M2510 B	Specific Conductance	33168	1	01/26/09 03:30 AM	WC_090126A
	W-MW-17	Aqueous	M2540C	Total Dissolved Solids	33204	1	01/29/09 09:00 AM	WC_090129A
0901133-17A	W-EB-1	Equip Blank	SW6020	Trace Metals: ICP-MS - Water	33148	1	01/30/09 05:54 PM	ICP-MS3_090130A
0901133-17B	W-EB-1	Equip Blank	E300	Anions by IC method - Water	33158	1	01/26/09 10:29 AM	IC_090126A
0901133-17C	W-EB-1	Equip Blank	M2320 B	Alkalinity	33166	1	01/26/09 04:28 PM	TITRATOR_090126A
	W-EB-1	Equip Blank	M2510 B	Specific Conductance	33168	1	01/26/09 03:30 AM	WC_090126A
	W-EB-1	Equip Blank	M2540C	Total Dissolved Solids	33204	1	01/29/09 09:00 AM	WC_090129A

DHL Analytical

Date: 02/04/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033
 Lab Order: 0901133

Client Sample ID: W-MW-6
 Lab ID: 0901133-01
 Collection Date: 01/21/09 10:32 AM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	415	50.0	150		mg/L	500	01/30/09 06:25 PM
Magnesium	329	50.0	150		mg/L	500	01/30/09 06:25 PM
Potassium	58.6	5.00	15.0		mg/L	50	02/02/09 02:48 PM
Sodium	3180	50.0	150		mg/L	500	01/30/09 06:25 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	9.52	0.300	1.00		mg/L	1	01/26/09 03:35 PM
Chloride	5190	300	1000		mg/L	1000	01/26/09 01:21 PM
Sulfate	1010	100	300		mg/L	100	01/26/09 10:07 AM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	354	10.0	20.0		mg/L	1	01/26/09 01:47 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 01:47 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 01:47 PM
Alkalinity, Total (As CaCO ₃)	354	10.0	20.0		mg/L	1	01/26/09 01:47 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	17800	100	100		µmhos/cm	1	01/26/09 03:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	10700	10.0	10.0		mg/L	1	01/27/09 09:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/04/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033
 Lab Order: 0901133

Client Sample ID: W-MW-3
 Lab ID: 0901133-02
 Collection Date: 01/21/09 11:40 AM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	492	50.0	150		mg/L	500	01/30/09 07:01 PM
Magnesium	523	50.0	150		mg/L	500	01/30/09 07:01 PM
Potassium	19.2	5.00	15.0		mg/L	50	02/02/09 02:53 PM
Sodium	1040	50.0	150		mg/L	500	01/30/09 07:01 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	3.22	0.300	1.00		mg/L	1	01/26/09 03:49 PM
Chloride	1680	30.0	100		mg/L	100	01/26/09 10:21 AM
Sulfate	2770	100	300		mg/L	100	01/26/09 10:21 AM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	428	10.0	20.0		mg/L	1	01/26/09 02:03 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 02:03 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 02:03 PM
Alkalinity, Total (As CaCO ₃)	428	10.0	20.0		mg/L	1	01/26/09 02:03 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	9510	100	100		µmhos/cm	1	01/26/09 03:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	7620	10.0	10.0		mg/L	1	01/27/09 09:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/04/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033
 Lab Order: 0901133

Client Sample ID: W-MW-2
 Lab ID: 0901133-03
 Collection Date: 01/21/09 11:42 AM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	707	10.0	30.0		mg/L	100	01/30/09 07:06 PM
Magnesium	167	10.0	30.0		mg/L	100	01/30/09 07:06 PM
Potassium	9.53	1.00	3.00		mg/L	10	02/02/09 02:58 PM
Sodium	131	10.0	30.0		mg/L	100	01/30/09 07:06 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	0.509	0.300	1.00	J	mg/L	1	01/26/09 04:33 PM
Chloride	109	3.00	10.0		mg/L	10	01/26/09 01:35 PM
Sulfate	1630	100	300		mg/L	100	01/26/09 10:36 AM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	242	10.0	20.0		mg/L	1	01/26/09 02:09 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 02:09 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 02:09 PM
Alkalinity, Total (As CaCO ₃)	242	10.0	20.0		mg/L	1	01/26/09 02:09 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	3240	100	100		µmhos/cm	1	01/26/09 03:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	3080	10.0	10.0		mg/L	1	01/27/09 09:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/04/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033
 Lab Order: 0901133

Client Sample ID: W-MW-1
 Lab ID: 0901133-04
 Collection Date: 01/21/09 12:40 PM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	695	100	300		mg/L	1000	01/30/09 07:11 PM
Magnesium	703	100	300		mg/L	1000	01/30/09 07:11 PM
Potassium	66.6	10.0	30.0		mg/L	100	02/02/09 03:03 PM
Sodium	4940	100	300		mg/L	1000	01/30/09 07:11 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	14.1	0.300	1.00		mg/L	1	01/26/09 04:48 PM
Chloride	7520	300	1000		mg/L	1000	01/26/09 01:50 PM
Sulfate	5040	100	300		mg/L	100	01/26/09 10:51 AM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	519	10.0	20.0		mg/L	1	01/26/09 02:21 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 02:21 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 02:21 PM
Alkalinity, Total (As CaCO ₃)	519	10.0	20.0		mg/L	1	01/26/09 02:21 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	31000	200	200		µmhos/cm	2	01/26/09 03:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	21200	10.0	10.0		mg/L	1	01/27/09 09:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/04/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033
 Lab Order: 0901133

Client Sample ID: W-MW-15
 Lab ID: 0901133-05
 Collection Date: 01/21/09 12:50 PM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	482	50.0	150		mg/L	500	01/30/09 07:17 PM
Magnesium	357	50.0	150		mg/L	500	01/30/09 07:17 PM
Potassium	39.7	5.00	15.0		mg/L	50	02/02/09 03:30 PM
Sodium	1970	50.0	150		mg/L	500	01/30/09 07:17 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	6.09	0.300	1.00		mg/L	1	01/26/09 05:02 PM
Chloride	2990	30.0	100		mg/L	100	01/26/09 11:05 AM
Sulfate	2520	100	300		mg/L	100	01/26/09 11:05 AM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	402	10.0	20.0		mg/L	1	01/26/09 02:30 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 02:30 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 02:30 PM
Alkalinity, Total (As CaCO ₃)	402	10.0	20.0		mg/L	1	01/26/09 02:30 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	13400	100	100		µmhos/cm	1	01/26/09 03:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	9660	10.0	10.0		mg/L	1	01/27/09 09:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/04/09

CLIENT: TRC Environmental Corp.
Project: RRC Wendkirk BMP
Project No: 165033
Lab Order: 0901133

Client Sample ID: W-MW-11
Lab ID: 0901133-06
Collection Date: 01/21/09 01:40 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	796	100	300		mg/L	1000	01/30/09 07:22 PM
Magnesium	288	5.00	15.0		mg/L	50	02/02/09 03:35 PM
Potassium	29.7	5.00	15.0		mg/L	50	02/02/09 03:35 PM
Sodium	3920	100	300		mg/L	1000	01/30/09 07:22 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	21.9	0.300	1.00		mg/L	1	01/26/09 05:46 PM
Chloride	7380	300	1000		mg/L	1000	01/26/09 02:05 PM
Sulfate	1150	100	300		mg/L	100	01/26/09 12:07 PM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO3)	332	10.0	20.0		mg/L	1	01/26/09 02:38 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	01/26/09 02:38 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	01/26/09 02:38 PM
Alkalinity, Total (As CaCO3)	332	10.0	20.0		mg/L	1	01/26/09 02:38 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	25600	200	200		µmhos/cm	2	01/26/09 03:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	15500	10.0	10.0		mg/L	1	01/27/09 09:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/04/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033
 Lab Order: 0901133

Client Sample ID: W-MW-18
 Lab ID: 0901133-07
 Collection Date: 01/21/09 02:10 PM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: KW
Calcium	1470	50.0	150		mg/L	500	02/02/09 02:38 PM
Magnesium	631	50.0	150		mg/L	500	02/02/09 02:38 PM
Potassium	187	50.0	150		mg/L	500	02/02/09 02:38 PM
Sodium	14000	500	1500		mg/L	5000	01/30/09 07:27 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	43.9	3.00	10.0		mg/L	10	01/27/09 10:28 AM
Chloride	25700	300	1000		mg/L	1000	01/26/09 02:19 PM
Sulfate	3940	100	300		mg/L	100	01/26/09 12:22 PM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	312	10.0	20.0		mg/L	1	01/26/09 02:48 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 02:48 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 02:48 PM
Alkalinity, Total (As CaCO ₃)	312	10.0	20.0		mg/L	1	01/26/09 02:48 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	79900	500	500		µmhos/cm	5	01/26/09 03:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	47500	10.0	10.0		mg/L	1	01/27/09 09:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/04/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033
 Lab Order: 0901133

Client Sample ID: W-MW18-D
 Lab ID: 0901133-08
 Collection Date: 01/21/09 02:10 PM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: KW
Calcium	1550	50.0	150		mg/L	500	02/02/09 02:43 PM
Magnesium	658	50.0	150		mg/L	500	02/02/09 02:43 PM
Potassium	193	50.0	150		mg/L	500	02/02/09 02:43 PM
Sodium	14200	500	1500		mg/L	5000	01/30/09 07:32 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	44.0	3.00	10.0		mg/L	10	01/27/09 10:43 AM
Chloride	26500	300	1000		mg/L	1000	01/26/09 02:51 PM
Sulfate	4090	100	300		mg/L	100	01/26/09 12:37 PM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	315	10.0	20.0		mg/L	1	01/26/09 03:03 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 03:03 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 03:03 PM
Alkalinity, Total (As CaCO ₃)	315	10.0	20.0		mg/L	1	01/26/09 03:03 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	79100	500	500		µmhos/cm	5	01/26/09 03:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	47700	10.0	10.0		mg/L	1	01/27/09 09:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/04/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033
 Lab Order: 0901133

Client Sample ID: W-MW-05
 Lab ID: 0901133-09
 Collection Date: 01/21/09 02:15 PM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	905	100	300		mg/L	1000	01/30/09 07:37 PM
Magnesium	349	100	300		mg/L	1000	01/30/09 07:37 PM
Potassium	116	10.0	30.0		mg/L	100	02/02/09 03:51 PM
Sodium	7710	100	300		mg/L	1000	01/30/09 07:37 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	25.5	3.00	10.0		mg/L	10	01/27/09 10:58 AM
Chloride	13500	300	1000		mg/L	1000	01/26/09 03:05 PM
Sulfate	2590	100	300		mg/L	100	01/26/09 12:51 PM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO3)	328	10.0	20.0		mg/L	1	01/26/09 03:12 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	01/26/09 03:12 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	01/26/09 03:12 PM
Alkalinity, Total (As CaCO3)	328	10.0	20.0		mg/L	1	01/26/09 03:12 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	45400	400	400		µmhos/cm	4	01/26/09 03:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	26200	10.0	10.0		mg/L	1	01/27/09 09:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/04/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033
 Lab Order: 0901133

Client Sample ID: W-MW-10
 Lab ID: 0901133-10
 Collection Date: 01/21/09 02:34 PM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	730	100	300		mg/L	1000	01/30/09 06:00 PM
Magnesium	362	100	300		mg/L	1000	01/30/09 06:00 PM
Potassium	152	10.0	30.0		mg/L	100	02/02/09 03:56 PM
Sodium	9450	100	300		mg/L	1000	01/30/09 06:00 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	27.4	3.00	10.0		mg/L	10	01/27/09 11:12 AM
Chloride	13900	300	1000		mg/L	1000	01/26/09 03:20 PM
Sulfate	5980	100	300		mg/L	100	01/26/09 01:06 PM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	439	10.0	20.0		mg/L	1	01/26/09 03:18 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 03:18 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 03:18 PM
Alkalinity, Total (As CaCO ₃)	439	10.0	20.0		mg/L	1	01/26/09 03:18 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	51200	400	400		µmhos/cm	4	01/26/09 03:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	32300	10.0	10.0		mg/L	1	01/27/09 09:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/04/09

CLIENT: TRC Environmental Corp.
Project: RRC Wendkirk BMP
Project No: 165033
Lab Order: 0901133

Client Sample ID: W-MW-12
Lab ID: 0901133-11
Collection Date: 01/21/09 03:36 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	963	100	300		mg/L	1000	01/30/09 07:43 PM
Magnesium	674	100	300		mg/L	1000	01/30/09 07:43 PM
Potassium	127	10.0	30.0		mg/L	100	02/02/09 04:02 PM
Sodium	8840	100	300		mg/L	1000	01/30/09 07:43 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	26.5	3.00	10.0		mg/L	10	01/26/09 04:47 PM
Chloride	14800	300	1000		mg/L	1000	02/03/09 06:11 PM
Sulfate	4810	100	300		mg/L	100	01/26/09 10:45 AM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO3)	383	10.0	20.0		mg/L	1	01/26/09 03:28 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	01/26/09 03:28 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	01/26/09 03:28 PM
Alkalinity, Total (As CaCO3)	383	10.0	20.0		mg/L	1	01/26/09 03:28 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	53400	400	400		µmhos/cm	4	01/26/09 03:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	33700	10.0	10.0		mg/L	1	01/27/09 09:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/04/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033
 Lab Order: 0901133

Client Sample ID: W-WW-MAYS-02
 Lab ID: 0901133-12
 Collection Date: 01/21/09 04:40 PM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	1160	100	300		mg/L	1000	01/30/09 07:48 PM
Magnesium	608	100	300		mg/L	1000	01/30/09 07:48 PM
Potassium	131	10.0	30.0		mg/L	100	02/02/09 04:07 PM
Sodium	10000	200	600		mg/L	2000	02/02/09 02:27 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	85.8	3.00	10.0		mg/L	10	01/26/09 05:02 PM
Chloride	17700	300	1000		mg/L	1000	02/03/09 06:26 PM
Sulfate	3300	100	300		mg/L	100	01/26/09 11:00 AM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	270	10.0	20.0		mg/L	1	01/26/09 03:36 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 03:36 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 03:36 PM
Alkalinity, Total (As CaCO ₃)	270	10.0	20.0		mg/L	1	01/26/09 03:36 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	57900	400	400		µmhos/cm	4	01/26/09 03:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	35600	10.0	10.0		mg/L	1	01/27/09 09:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/04/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033
 Lab Order: 0901133

Client Sample ID: W-MW-19
 Lab ID: 0901133-13
 Collection Date: 01/22/09 11:40 AM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	757	100	300		mg/L	1000	01/30/09 08:24 PM
Magnesium	317	100	300		mg/L	1000	01/30/09 08:24 PM
Potassium	85.2	10.0	30.0		mg/L	100	02/02/09 04:12 PM
Sodium	5410	100	300		mg/L	1000	01/30/09 08:24 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	38.7	3.00	10.0		mg/L	10	01/26/09 05:18 PM
Chloride	8760	300	1000		mg/L	1000	02/03/09 06:41 PM
Sulfate	3330	100	300		mg/L	100	01/26/09 11:16 AM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	349	10.0	20.0		mg/L	1	01/26/09 03:45 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 03:45 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 03:45 PM
Alkalinity, Total (As CaCO ₃)	349	10.0	20.0		mg/L	1	01/26/09 03:45 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	31700	200	200		µmhos/cm	2	01/26/09 03:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	21400	10.0	10.0		mg/L	1	01/29/09 09:00 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/04/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033
 Lab Order: 0901133

Client Sample ID: W-MW-20
 Lab ID: 0901133-14
 Collection Date: 01/22/09 12:00 PM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	331	10.0	30.0		mg/L	100	01/30/09 08:29 PM
Magnesium	164	10.0	30.0		mg/L	100	01/30/09 08:29 PM
Potassium	19.2	1.00	3.00		mg/L	10	02/02/09 04:34 PM
Sodium	628	10.0	30.0		mg/L	100	01/30/09 08:29 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	2.96	0.300	1.00		mg/L	1	01/26/09 02:51 PM
Chloride	1030	30.0	100		mg/L	100	01/26/09 11:32 AM
Sulfate	1240	100	300		mg/L	100	01/26/09 11:32 AM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	358	10.0	20.0		mg/L	1	01/26/09 03:53 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 03:53 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 03:53 PM
Alkalinity, Total (As CaCO ₃)	358	10.0	20.0		mg/L	1	01/26/09 03:53 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	5680	100	100		µmhos/cm	1	01/26/09 03:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	4120	10.0	10.0		mg/L	1	01/29/09 09:00 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/04/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033
 Lab Order: 0901133

Client Sample ID: W-OW-1
 Lab ID: 0901133-15
 Collection Date: 01/22/09 01:10 PM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	4060	100	300		mg/L	1000	01/30/09 08:34 PM
Magnesium	1130	100	300		mg/L	1000	01/30/09 08:34 PM
Potassium	66.5	10.0	30.0		mg/L	100	02/02/09 04:23 PM
Sodium	10600	200	600		mg/L	2000	02/02/09 02:32 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	147	3.00	10.0		mg/L	10	01/26/09 04:15 PM
Chloride	29500	300	1000		mg/L	1000	01/26/09 01:52 PM
Sulfate	1410	100	300		mg/L	100	01/26/09 11:47 AM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	303	10.0	20.0		mg/L	1	01/26/09 04:04 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 04:04 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 04:04 PM
Alkalinity, Total (As CaCO ₃)	303	10.0	20.0		mg/L	1	01/26/09 04:04 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	80100	500	500		µmhos/cm	5	01/26/09 03:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	52000	10.0	10.0		mg/L	1	01/29/09 09:00 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/04/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033
 Lab Order: 0901133

Client Sample ID: W-MW-17
 Lab ID: 0901133-16
 Collection Date: 01/22/09 01:22 PM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	396	50.0	150		mg/L	500	01/30/09 08:39 PM
Magnesium	195	50.0	150		mg/L	500	01/30/09 08:39 PM
Potassium	48.6	10.0	30.0		mg/L	100	02/02/09 04:28 PM
Sodium	2350	50.0	150		mg/L	500	01/30/09 08:39 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	5.83	0.300	1.00		mg/L	1	01/26/09 04:31 PM
Chloride	3600	30.0	100		mg/L	100	01/26/09 12:03 PM
Sulfate	2350	100	300		mg/L	100	01/26/09 12:03 PM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	341	10.0	20.0		mg/L	1	01/26/09 04:12 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 04:12 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 04:12 PM
Alkalinity, Total (As CaCO ₃)	341	10.0	20.0		mg/L	1	01/26/09 04:12 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	14000	100	100		µmhos/cm	1	01/26/09 03:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	9780	10.0	10.0		mg/L	1	01/29/09 09:00 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/04/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033
 Lab Order: 0901133

Client Sample ID: W-EB-1
 Lab ID: 0901133-17
 Collection Date: 01/22/09 01:35 PM
 Matrix: Equip Blank

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	ND	0.100	0.300		mg/L	1	01/30/09 05:54 PM
Magnesium	ND	0.100	0.300		mg/L	1	01/30/09 05:54 PM
Potassium	ND	0.100	0.300		mg/L	1	01/30/09 05:54 PM
Sodium	0.112	0.100	0.300	J	mg/L	1	01/30/09 05:54 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	ND	0.300	1.00		mg/L	1	01/26/09 10:29 AM
Chloride	ND	0.300	1.00		mg/L	1	01/26/09 10:29 AM
Sulfate	ND	1.00	3.00		mg/L	1	01/26/09 10:29 AM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 04:28 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 04:28 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 04:28 PM
Alkalinity, Total (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/26/09 04:28 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	ND	100	100		µmhos/cm	1	01/26/09 03:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	19.0	10.0	10.0		mg/L	1	01/29/09 09:00 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

CLIENT: TRC Environmental Corp.
 Work Order: 0901133
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090130A

Sample ID:	MB-33148	Batch ID:	33148	TestNo:	SW6020	Units:	mg/L				
SampType:	MBLK	Run ID:	ICP-MS3_090130A	Analysis Date:	01/30/09 05:39 PM	Prep Date:	01/26/09				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Calcium	ND	0.300									
Magnesium	ND	0.300									
Potassium	ND	0.300									
Sodium	ND	0.300									

Sample ID:	LCS-33148	Batch ID:	33148	TestNo:	SW6020	Units:	mg/L				
SampType:	LCS	Run ID:	ICP-MS3_090130A	Analysis Date:	01/30/09 05:44 PM	Prep Date:	01/26/09				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Calcium	4.59	0.300	5.00	0	91.8	80	120				
Magnesium	4.83	0.300	5.00	0	96.6	80	120				
Potassium	4.80	0.300	5.00	0	95.9	80	120				
Sodium	4.76	0.300	5.00	0	95.1	80	120				

Sample ID:	LCSD-33148	Batch ID:	33148	TestNo:	SW6020	Units:	mg/L				
SampType:	LCSD	Run ID:	ICP-MS3_090130A	Analysis Date:	01/30/09 05:49 PM	Prep Date:	01/26/09				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Calcium	4.55	0.300	5.00	0	91.1	80	120	0.809	15		
Magnesium	4.88	0.300	5.00	0	97.5	80	120	0.969	15		
Potassium	4.91	0.300	5.00	0	98.1	80	120	2.25	15		
Sodium	4.84	0.300	5.00	0	96.9	80	120	1.85	15		

Sample ID:	0901133-10A SD	Batch ID:	33148	TestNo:	SW6020	Units:	mg/L				
SampType:	SD	Run ID:	ICP-MS3_090130A	Analysis Date:	01/30/09 06:05 PM	Prep Date:	01/26/09				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Calcium	705	1500	0	730				3.50	10		
Magnesium	0	1500	0	362				0	10		
Sodium	9930	1500	0	9450				5.00	10		

Sample ID:	0901133-10A PDS	Batch ID:	33148	TestNo:	SW6020	Units:	mg/L				
SampType:	PDS	Run ID:	ICP-MS3_090130A	Analysis Date:	01/30/09 06:10 PM	Prep Date:	01/26/09				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Calcium	5360	300	5000	730	92.7	75	125				
Magnesium	5140	300	5000	362	95.6	75	125				
Sodium	14100	300	5000	9450	93.7	75	125				

Sample ID:	0901133-10A MS	Batch ID:	33148	TestNo:	SW6020	Units:	mg/L				
SampType:	MS	Run ID:	ICP-MS3_090130A	Analysis Date:	01/30/09 06:15 PM	Prep Date:	01/26/09				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Calcium	714	300	5.00	730	-324	80	120				S
Magnesium	357	300	5.00	362	-94.0	80	120				S
Sodium	9120	300	5.00	9450	-6520	80	120				S

Sample ID:	0901133-10A MSD	Batch ID:	33148	TestNo:	SW6020	Units:	mg/L				
SampType:	MSD	Run ID:	ICP-MS3_090130A	Analysis Date:	01/30/09 06:20 PM	Prep Date:	01/26/09				

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0901133
Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090130A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	728	300	5.00	730	-46.0	80	120	1.93	15	S
Magnesium	362	300	5.00	362	20.0	80	120	1.58	15	S
Sodium	9390	300	5.00	9450	-1080	80	120	2.94	15	S

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901133
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090130A

Sample ID:	ICV1-090130	Batch ID:	R41638	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_090130A	Analysis Date:	01/30/09 05:09 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	2.50	0.300	2.50	0	99.9	90	110			
Magnesium	2.74	0.300	2.50	0	110	90	110			
Potassium	2.62	0.300	2.50	0	105	90	110			
Sodium	2.75	0.300	2.50	0	110	90	110			

Sample ID:	CCV1-090130	Batch ID:	R41638		TestNo:	SW6020		Units:	mg/L		
SampType:	CCV	Run ID:	ICP-MS3_090130A		Analysis Date:	01/30/09 06:31 PM		Prep Date:			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium		4.89	0.300	5.00	0	97.8	90	110			
Magnesium		5.20	0.300	5.00	0	104	90	110			
Potassium		5.24	0.300	5.00	0	105	90	110			
Sodium		5.26	0.300	5.00	0	105	90	110			

Sample ID:	CCV2-090130	Batch ID:	R41638	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_090130A	Analysis Date:	01/30/09 07:53 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.90	0.300	5.00	0	97.9	90	110			
Magnesium	5.06	0.300	5.00	0	101	90	110			
Sodium	5.09	0.300	5.00	0	102	90	110			

Sample ID:	CCV3-090130	Batch ID:	R41638	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_090130A	Analysis Date:	01/30/09 08:44 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.86	0.300	5.00	0	97.2	90	110			
Magnesium	5.09	0.300	5.00	0	102	90	110			
Sodium	5.01	0.300	5.00	0	100	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901133
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090202B

Sample ID:	ICV1-090202	Batch ID:	R41661	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_090202B	Analysis Date:	02/02/09 12:34 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	2.43	0.300	2.50	0	97.0	90	110			
Magnesium	2.58	0.300	2.50	0	103	90	110			
Potassium	2.52	0.300	2.50	0	101	90	110			
Sodium	2.65	0.300	2.50	0	106	90	110			

Sample ID:	CCV2-090202	Batch ID:	R41661		TestNo:	SW6020		Units:	mg/L		
SampType:	CCV	Run ID:	ICP-MS3_090202B		Analysis Date:	02/02/09 02:09 PM		Prep Date:			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium		4.74	0.300	5.00	0	94.8	90	110			
Magnesium		4.88	0.300	5.00	0	97.6	90	110			
Potassium		5.01	0.300	5.00	0	100	90	110			
Sodium		4.86	0.300	5.00	0	97.3	90	110			

Sample ID:	CCV3-090202	Batch ID:	R41661	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_090202B	Analysis Date:	02/02/09 03:40 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.70	0.300	5.00	0	94.1	90	110			
Magnesium	4.95	0.300	5.00	0	98.9	90	110			
Potassium	4.97	0.300	5.00	0	99.4	90	110			
Sodium	5.05	0.300	5.00	0	101	90	110			

Sample ID:	CCV4-090202	Batch ID:	R41661	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_090202B	Analysis Date:	02/02/09 04:39 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.68	0.300	5.00	0	93.6	90	110			
Magnesium	4.85	0.300	5.00	0	97.0	90	110			
Potassium	4.99	0.300	5.00	0	99.9	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901133
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090126A

Sample ID:	LCS-33158	Batch ID:	33158	TestNo:	E300	Units:	mg/L			
SampType:	LCS	Run ID:	IC_090126A	Analysis Date:	01/26/09 09:42 AM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.1	1.00	20.00	0	101	90	110			
Chloride	10.1	1.00	10.00	0	101	90	110			
Sulfate	30.2	3.00	30.00	0	101	90	110			

Sample ID:	LCSD-33158	Batch ID:	33158	TestNo:	E300	Units:	mg/L			
SampType:	LCSD	Run ID:	IC_090126A	Analysis Date:	01/26/09 09:57 AM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.1	1.00	20.00	0	101	90	110	0.0756	20	
Chloride	10.1	1.00	10.00	0	101	90	110	0.0148	20	
Sulfate	30.2	3.00	30.00	0	101	90	110	0.0302	20	

Sample ID:	MB-33158	Batch ID:	33158	TestNo:	E300	Units:	mg/L			
SampType:	MBLK	Run ID:	IC_090126A	Analysis Date:	01/26/09 10:13 AM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	ND	1.00	0							
Chloride	ND	1.00	0							
Sulfate	ND	3.00	0							

Sample ID:	0901133-14B MS	Batch ID:	33158	TestNo:	E300	Units:	mg/L			
SampType:	MS	Run ID:	IC_090126A	Analysis Date:	01/26/09 12:36 PM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	1690	100	1000	619.3	107	90	110			
Sulfate	3750	300	3000	741.6	100	90	110			

Sample ID:	0901133-14B MSD	Batch ID:	33158	TestNo:	E300	Units:	mg/L			
SampType:	MSD	Run ID:	IC_090126A	Analysis Date:	01/26/09 12:52 PM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	1650	100	1000	619.3	103	90	110	2.49	20	
Sulfate	3750	300	3000	741.6	100	90	110	0.0104	20	

Sample ID:	0901133-14B MS	Batch ID:	33158	TestNo:	E300	Units:	mg/L			
SampType:	MS	Run ID:	IC_090126A	Analysis Date:	01/26/09 03:44 PM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.3	1.00	20.00	1.780	92.4	90	110			

Sample ID:	0901133-14B MSD			Batch ID:	33158		TestNo:	E300		Units:	mg/L	
SampType:	MSD			Run ID:	IC_090126A		Analysis Date:	01/26/09 03:59 PM		Prep Date:	01/26/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Bromide		20.3	1.00	20.00	1.780	92.7	90	110	0.359	20		

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901133
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090126A

Sample ID:	ICV-090126	Batch ID:	R41546			TestNo:	E300		Units:	mg/L	
SampType:	ICV	Run ID:	IC_090126A			Analysis Date:	01/26/09 09:21 AM		Prep Date:	01/26/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		51.5	1.00	50.00	0	103	90	110			
Chloride		25.9	1.00	25.00	0	103	90	110			
Sulfate		77.2	3.00	75.00	0	103	90	110			

Sample ID:	CCV1-090126	Batch ID:	R41546	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC_090126A	Analysis Date:	01/26/09 12:19 PM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.0	1.00	20.00	0	100	90	110			
Chloride	10.2	1.00	10.00	0	102	90	110			
Sulfate	30.0	3.00	30.00	0	99.9	90	110			

Sample ID:	CCV2-090126	Batch ID:	R41546	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC_090126A	Analysis Date:	01/26/09 03:22 PM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.5	1.00	20.00	0	102	90	110			
Chloride	10.6	1.00	10.00	0	106	90	110			
Sulfate	31.5	3.00	30.00	0	105	90	110			

Sample ID:	CCV3-090126	Batch ID:	R41546	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC_090126A	Analysis Date:	01/26/09 06:03 PM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.4	1.00	20.00	0	102	90	110			
Chloride	10.5	1.00	10.00	0	105	90	110			
Sulfate	31.1	3.00	30.00	0	104	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901133
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090126A

Sample ID:	LCS-33157	Batch ID:	33157	TestNo:	E300	Units:	mg/L			
SampType:	LCS	Run ID:	IC2_090126A	Analysis Date:	01/26/09 09:21 AM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	18.7	1.00	20.00	0	93.4	90	110			
Chloride	9.17	1.00	10.00	0	91.7	90	110			
Sulfate	28.3	3.00	30.00	0	94.4	90	110			

Sample ID:	LCSD-33157	Batch ID:	33157	TestNo:	E300	Units:	mg/L			
SampType:	LCSD	Run ID:	IC2_090126A	Analysis Date:	01/26/09 09:35 AM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	18.7	1.00	20.00	0	93.6	90	110	0.202	20	
Chloride	9.17	1.00	10.00	0	91.7	90	110	0.0262	20	
Sulfate	28.3	3.00	30.00	0	94.2	90	110	0.263	20	

Sample ID:	MB-33157	Batch ID:	33157	TestNo:	E300	Units:	mg/L			
SampType:	MBLK	Run ID:	IC2_090126A	Analysis Date:	01/26/09 09:50 AM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	ND	1.00								
Chloride	ND	1.00								
Sulfate	ND	3.00								

Sample ID:	0901133-02B MS	Batch ID:	33157	TestNo:	E300	Units:	mg/L			
SampType:	MS	Run ID:	IC2_090126A	Analysis Date:	01/26/09 11:22 AM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	1990	100	1000	1008	98.4	90	110			
Sulfate	4580	300	3000	1662	97.2	90	110			

Sample ID:	0901133-02B MSD	Batch ID:	33157	TestNo:	E300	Units:	mg/L			
SampType:	MSD	Run ID:	IC2_090126A	Analysis Date:	01/26/09 11:36 AM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	2010	100	1000	1008	99.8	90	110	0.656	20	
Sulfate	4580	300	3000	1662	97.2	90	110	0.0100	20	

Sample ID:	0901133-02B MS	Batch ID:	33157	TestNo:	E300	Units:	mg/L			
SampType:	MS	Run ID:	IC2_090126A	Analysis Date:	01/26/09 04:04 PM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.5	1.00	20.00	1.920	93.0	90	110			

Sample ID:	0901133-02B MSD			Batch ID:	33157		TestNo:	E300		Units:	mg/L		
SampType:	MSD			Run ID:	IC2_090126A		Analysis Date:	01/26/09 04:19 PM		Prep Date:	01/26/09		
Analyte		Result	RL		SPK value		Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.7	1.00		20.00		1.920	93.8	90	110	0.775	20	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901133
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090126A

Sample ID:	ICV-090126	Batch ID:	R41544	TestNo:	E300	Units:	mg/L			
SampType:	ICV	Run ID:	IC2_090126A	Analysis Date:	01/26/09 09:04 AM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	48.5	1.00	50.00	0	97.0	90	110			
Chloride	24.1	1.00	25.00	0	96.3	90	110			
Sulfate	73.5	3.00	75.00	0	97.9	90	110			

Sample ID:	CCV1-090126	Batch ID:	R41544	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_090126A	Analysis Date:	01/26/09 11:51 AM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	18.8	1.00	20.00	0	94.2	90	110			
Chloride	9.33	1.00	10.00	0	93.3	90	110			
Sulfate	28.4	3.00	30.00	0	94.5	90	110			

Sample ID:	CCV2-090126	Batch ID:	R41544	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_090126A	Analysis Date:	01/26/09 02:34 PM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	18.8	1.00	20.00	0	93.8	90	110			
Chloride	9.21	1.00	10.00	0	92.1	90	110			
Sulfate	28.2	3.00	30.00	0	94.1	90	110			

Sample ID:	CCV3-090126	Batch ID:	R41544	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_090126A	Analysis Date:	01/26/09 05:32 PM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	18.8	1.00	20.00	0	94.1	90	110			
Chloride	10.0	1.00	10.00	0	100	90	110			
Sulfate	31.0	3.00	30.00	0	103	90	110			

Sample ID:	CCV4-090126	Batch ID:	R41544	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_090126A	Analysis Date:	01/26/09 07:14 PM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	18.8	1.00	20.00	0	94.1	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0901133
Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090127A

Sample ID:	ICV-090127	Batch ID:	R41565	TestNo:	E300	Units:	mg/L			
SampType:	ICV	Run ID:	IC2_090127A	Analysis Date:	01/27/09 09:19 AM	Prep Date:	01/27/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	48.5	1.00	50.00	0	97.1	90	110			
Chloride	24.5	1.00	25.00	0	97.9	90	110			

Sample ID:	CCV1-090127	Batch ID:	R41565	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_090127A	Analysis Date:	01/27/09 12:26 PM	Prep Date:	01/27/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	18.7	1.00	20.00	0	93.4	90	110			
Chloride	9.26	1.00	10.00	0	92.6	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901133
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090203A

Sample ID:	ICV-090203	Batch ID:	R41687	TestNo:	E300	Units:	mg/L			
SampType:	ICV	Run ID:	IC2_090203A	Analysis Date:	02/03/09 09:21 AM	Prep Date:	02/03/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	50.3	1.00	50.00	0	101	90	110			
Chloride	24.9	1.00	25.00	0	99.5	90	110			
Sulfate	76.2	3.00	75.00	0	102	90	110			

Sample ID:	CCV2-090203	Batch ID:	R41687	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_090203A	Analysis Date:	02/03/09 04:11 PM	Prep Date:	02/03/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	19.6	1.00	20.00	0	98.1	90	110			
Chloride	9.59	1.00	10.00	0	95.9	90	110			
Sulfate	29.5	3.00	30.00	0	98.3	90	110			

Sample ID:	CCV4-090203	Batch ID:	R41687	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_090203A	Analysis Date:	02/03/09 06:55 PM	Prep Date:	02/03/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	9.60	1.00	10.00	0	96.0	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901133
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090126A

Sample ID:	MB-33166	Batch ID:	33166	TestNo:	M2320 B	Units:	mg/L			
SampType:	MBLK	Run ID:	TITRATOR_090126A	Analysis Date:	01/26/09 01:35 PM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	20.0								
Alkalinity, Carbonate (As CaCO3)	ND	20.0								
Alkalinity, Hydroxide (As CaCO3)	ND	20.0								
Alkalinity, Total (As CaCO3)	ND	20.0								

Sample ID:	LCS-33166	Batch ID:	33166	TestNo:	M2320 B	Units:	mg/L			
SampType:	LCS	Run ID:	TITRATOR_090126A	Analysis Date:	01/26/09 01:39 PM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	54.9	20.0	50.00	0	110	74	129			

Sample ID:	0901133-01C DUP	Batch ID:	33166	TestNo:	M2320 B	Units:	mg/L			
SampType:	DUP	Run ID:	TITRATOR_090126A	Analysis Date:	01/26/09 01:55 PM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	352	20.0	0	353.9				0.538	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	352	20.0	0	353.9				0.538	20	

Sample ID:	0901133-16C DUP	Batch ID:	33166	TestNo:	M2320 B	Units:	mg/L			
SampType:	DUP	Run ID:	TITRATOR_090126A	Analysis Date:	01/26/09 04:20 PM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	340	20.0	0	340.6				0.118	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	340	20.0	0	340.6				0.118	20	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901133
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090126A

Sample ID:	ICV-090126	Batch ID:	R41552	TestNo:	M2320 B	Units:	mg/L			
SampType:	ICV	Run ID:	TITRATOR_090126A	Analysis Date:	01/26/09 01:34 PM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	7.20	20.0	0							
Alkalinity, Carbonate (As CaCO3)	93.6	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	98	102			

Sample ID:	CCV1-090126	Batch ID:	R41552	TestNo:	M2320 B	Units:	mg/L			
SampType:	CCV	Run ID:	TITRATOR_090126A	Analysis Date:	01/26/09 02:53 PM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	17.0	20.0	0							
Alkalinity, Carbonate (As CaCO3)	87.8	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	105	20.0	100.0	0	105	90	110			

Sample ID:	CCV2-090126	Batch ID:	R41552	TestNo:	M2320 B	Units:	mg/L			
SampType:	CCV	Run ID:	TITRATOR_090126A	Analysis Date:	01/26/09 04:25 PM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	24.6	20.0	0							
Alkalinity, Carbonate (As CaCO3)	78.1	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	103	20.0	100.0	0	103	90	110			

Sample ID:	CCV3-090126	Batch ID:	R41552	TestNo:	M2320 B	Units:	mg/L			
SampType:	CCV	Run ID:	TITRATOR_090126A	Analysis Date:	01/26/09 04:33 PM	Prep Date:	01/26/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	24.7	20.0	0							
Alkalinity, Carbonate (As CaCO3)	77.9	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	103	20.0	100.0	0	103	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901133
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090126A

Sample ID: MB-33168	Batch ID: 33168	TestNo: M2510 B	Units: µmhos/cm
SampType: MBLK	Run ID: WC_090126A	Analysis Date: 01/26/09 03:30 AM	Prep Date: 01/26/09
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Specific Conductance	ND	100	

Sample ID: LCS-33168	Batch ID: 33168	TestNo: M2510 B	Units: µmhos/cm
SampType: LCS	Run ID: WC_090126A	Analysis Date: 01/26/09 03:30 AM	Prep Date: 01/26/09
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Specific Conductance	1380	100	1413 0 97.4 95 105

Sample ID: 0901133-01C-DUP	Batch ID: 33168	TestNo: M2510 B	Units: µmhos/cm
SampType: DUP	Run ID: WC_090126A	Analysis Date: 01/26/09 03:30 AM	Prep Date: 01/26/09
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Specific Conductance	17900	100	0 17850 0.336 2

Sample ID: 0901133-11C-DUP	Batch ID: 33168	TestNo: M2510 B	Units: µmhos/cm
SampType: DUP	Run ID: WC_090126A	Analysis Date: 01/26/09 03:30 AM	Prep Date: 01/26/09
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Specific Conductance	54200	400	0 53440 1.41 2

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901133
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090126A

Sample ID:	ICV-090126	Batch ID:	CONDW-01/26/09	TestNo:	M2510 B	Units:	µmhos/cm			
SampType:	ICV	Run ID:	WC_090126A	Analysis Date:	01/26/09 03:30 AM	Prep Date:	01/26/09			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Specific Conductance		12900	10.0	12880	0	100	95	105		
Sample ID:	CCV1-090126	Batch ID:	CONDW-01/26/09	TestNo:	M2510 B	Units:	µmhos/cm			
SampType:	CCV	Run ID:	WC_090126A	Analysis Date:	01/26/09 03:30 AM	Prep Date:	01/26/09			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Specific Conductance		12800	10.0	12880	0	99.1	95	105		
Sample ID:	CCV2-090126	Batch ID:	CONDW-01/26/09	TestNo:	M2510 B	Units:	µmhos/cm			
SampType:	CCV	Run ID:	WC_090126A	Analysis Date:	01/26/09 03:30 AM	Prep Date:	01/26/09			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Specific Conductance		12600	10.0	12880	0	97.9	95	105		
Sample ID:	CCV3-090126	Batch ID:	CONDW-01/26/09	TestNo:	M2510 B	Units:	µmhos/cm			
SampType:	CCV	Run ID:	WC_090126A	Analysis Date:	01/26/09 03:30 AM	Prep Date:	01/26/09			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Specific Conductance		12600	10.0	12880	0	98.1	95	105		
Sample ID:	CCV4-090126	Batch ID:	CONDW-01/26/09	TestNo:	M2510 B	Units:	µmhos/cm			
SampType:	CCV	Run ID:	WC_090126A	Analysis Date:	01/26/09 03:30 AM	Prep Date:	01/26/09			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Specific Conductance		12400	10.0	12880	0	96.1	95	105		

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901133
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090127A

Sample ID:	MB-33182	Batch ID:	33182	TestNo:	M2540C	Units:	mg/L			
SampType:	MBLK	Run ID:	WC_090127A	Analysis Date:	01/27/09 09:30 AM	Prep Date:	01/27/09			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Fi		ND	10.0							
Sample ID:	LCS-33182	Batch ID:	33182	TestNo:	M2540C	Units:	mg/L			
SampType:	LCS	Run ID:	WC_090127A	Analysis Date:	01/27/09 09:30 AM	Prep Date:	01/27/09			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Fi		693	10.0	745.6	0	92.9	90	113		
Sample ID:	0901133-10C-DUP	Batch ID:	33182	TestNo:	M2540C	Units:	mg/L			
SampType:	DUP	Run ID:	WC_090127A	Analysis Date:	01/27/09 09:30 AM	Prep Date:	01/27/09			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Fi		32000	10.0	0	32320				0.933	5
Sample ID:	0901138-09B-DUP	Batch ID:	33182	TestNo:	M2540C	Units:	mg/L			
SampType:	DUP	Run ID:	WC_090127A	Analysis Date:	01/27/09 09:30 AM	Prep Date:	01/27/09			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Fi		14400	10.0	0	15740				8.75	5 R

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901133
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090129A

Sample ID:	MB-33204	Batch ID:	33204	TestNo:	M2540C	Units:	mg/L			
SampType:	MBLK	Run ID:	WC_090129A	Analysis Date:	01/29/09 09:00 AM	Prep Date:	01/29/09			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Fi		ND	10.0							
Sample ID:	LCS-33204	Batch ID:	33204	TestNo:	M2540C	Units:	mg/L			
SampType:	LCS	Run ID:	WC_090129A	Analysis Date:	01/29/09 09:00 AM	Prep Date:	01/29/09			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Fi		788	10.0	745.6	0	106	90	113		
Sample ID:	0901133-15C-DUP	Batch ID:	33204	TestNo:	M2540C	Units:	mg/L			
SampType:	DUP	Run ID:	WC_090129A	Analysis Date:	01/29/09 09:00 AM	Prep Date:	01/29/09			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Fi		51300	10.0	0	51980				1.24	5

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified



February 12, 2009

Steve Miller
TRC Environmental Corp.
505 East Huntland Drive
Austin, Texas 78752

TEL: (512) 329-6080
FAX: (512) 329-8750

RE: RRC Wendkirk BMP
Revision Number 1 for Work Order 0901115

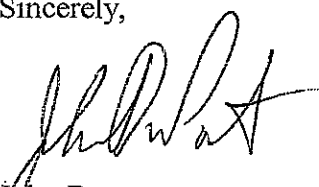
Dear Steve Miller,

DHL Analytical received 16 samples on 1/21/2009 for the analyses presented in the following REVISED report. This revision consists of correcting the Sample Label (W-SG-4314102-D1) to (W-SG-4314102-01). Please replace the original report with this revised report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these test results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,



John Dupont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification
Number: T104704211-08B-TX

Table of Contents

Miscellaneous Documents	3
Case Narrative	8
Sample Summary	9
Prep Dates Report	10
Analytical Dates Report	15
Sample Results	20
Analytical QC Summary Report.....	36



2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

No 39161
CHAIN-OF-CUSTODY

CLIENT: TRC
ADDRESS: 505 E. HUNLAND DR., SUITE 250
PHONE: (512) 694-3140 FAX (512) 329-8750
DATA REPORTED TO: SCMILLER@trcsolutions.com
ADDITIONAL REPORT COPIES TO: MW@trcsolutions.com, CM@trcsolutions.com

DATE: 1/20/2009 PAGE 1 OF 2
PO #: 165033 - 000001 DHL WORK ORDER #: 090115
PROJECT LOCATION OR NAME: _____
CLIENT PROJECT #: 165033.0000.0000 COLLECTOR: CM, BC

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	PRESERVATION					ANALYSES															FIELD NOTES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
							HCl	HNO ₃	H ₂ SO ₄ / NaOH	ICE	UNPRESERVED	BTEX/D MIBED	TPH 418	TPH 1006	TPH 1008	TPH 1009	TPH 1010	TPH 1011	TPH 1012	TPH 1013	TPH 1014	TPH 1015	TPH 1016	TPH 1017	TPH 1018	TPH 1019		TPH 1020	TPH 1021	TPH 1022	TPH 1023	TPH 1024	TPH 1025	TPH 1026	TPH 1027	TPH 1028	TPH 1029	TPH 1030	TPH 1031	TPH 1032	TPH 1033	TPH 1034	TPH 1035	TPH 1036	TPH 1037	TPH 1038	TPH 1039	TPH 1040	TPH 1041	TPH 1042	TPH 1043	TPH 1044	TPH 1045	TPH 1046	TPH 1047	TPH 1048	TPH 1049	TPH 1050	TPH 1051	TPH 1052	TPH 1053	TPH 1054	TPH 1055	TPH 1056	TPH 1057	TPH 1058	TPH 1059	TPH 1060	TPH 1061	TPH 1062	TPH 1063	TPH 1064	TPH 1065	TPH 1066	TPH 1067	TPH 1068	TPH 1069	TPH 1070	TPH 1071	TPH 1072	TPH 1073	TPH 1074	TPH 1075	TPH 1076	TPH 1077	TPH 1078	TPH 1079	TPH 1080	TPH 1081	TPH 1082	TPH 1083	TPH 1084	TPH 1085	TPH 1086	TPH 1087	TPH 1088	TPH 1089	TPH 1090	TPH 1091	TPH 1092	TPH 1093	TPH 1094	TPH 1095	TPH 1096	TPH 1097	TPH 1098	TPH 1099	TPH 1100	TPH 1101	TPH 1102	TPH 1103	TPH 1104	TPH 1105	TPH 1106	TPH 1107	TPH 1108	TPH 1109	TPH 1110	TPH 1111	TPH 1112	TPH 1113	TPH 1114	TPH 1115	TPH 1116	TPH 1117	TPH 1118	TPH 1119	TPH 1120	TPH 1121	TPH 1122	TPH 1123	TPH 1124	TPH 1125	TPH 1126	TPH 1127	TPH 1128	TPH 1129	TPH 1130	TPH 1131	TPH 1132	TPH 1133	TPH 1134	TPH 1135	TPH 1136	TPH 1137	TPH 1138	TPH 1139	TPH 1140	TPH 1141	TPH 1142	TPH 1143	TPH 1144	TPH 1145	TPH 1146	TPH 1147	TPH 1148	TPH 1149	TPH 1150	TPH 1151	TPH 1152	TPH 1153	TPH 1154	TPH 1155	TPH 1156	TPH 1157	TPH 1158	TPH 1159	TPH 1160	TPH 1161	TPH 1162	TPH 1163	TPH 1164	TPH 1165	TPH 1166	TPH 1167	TPH 1168	TPH 1169	TPH 1170	TPH 1171	TPH 1172	TPH 1173	TPH 1174	TPH 1175	TPH 1176	TPH 1177	TPH 1178	TPH 1179	TPH 1180	TPH 1181	TPH 1182	TPH 1183	TPH 1184	TPH 1185	TPH 1186	TPH 1187	TPH 1188	TPH 1189	TPH 1190	TPH 1191	TPH 1192	TPH 1193	TPH 1194	TPH 1195	TPH 1196	TPH 1197	TPH 1198	TPH 1199	TPH 1200	TPH 1201	TPH 1202	TPH 1203	TPH 1204	TPH 1205	TPH 1206	TPH 1207	TPH 1208	TPH 1209	TPH 1210	TPH 1211	TPH 1212	TPH 1213	TPH 1214	TPH 1215	TPH 1216	TPH 1217	TPH 1218	TPH 1219	TPH 1220	TPH 1221	TPH 1222	TPH 1223	TPH 1224	TPH 1225	TPH 1226	TPH 1227	TPH 1228	TPH 1229	TPH 1230	TPH 1231	TPH 1232	TPH 1233	TPH 1234	TPH 1235	TPH 1236	TPH 1237	TPH 1238	TPH 1239	TPH 1240	TPH 1241	TPH 1242	TPH 1243	TPH 1244	TPH 1245	TPH 1246	TPH 1247	TPH 1248	TPH 1249	TPH 1250	TPH 1251	TPH 1252	TPH 1253	TPH 1254	TPH 1255	TPH 1256	TPH 1257	TPH 1258	TPH 1259	TPH 1260	TPH 1261	TPH 1262	TPH 1263	TPH 1264	TPH 1265	TPH 1266	TPH 1267	TPH 1268	TPH 1269	TPH 1270	TPH 1271	TPH 1272	TPH 1273	TPH 1274	TPH 1275	TPH 1276	TPH 1277	TPH 1278	TPH 1279	TPH 1280	TPH 1281	TPH 1282	TPH 1283	TPH 1284	TPH 1285	TPH 1286	TPH 1287	TPH 1288	TPH 1289	TPH 1290	TPH 1291	TPH 1292	TPH 1293	TPH 1294	TPH 1295	TPH 1296	TPH 1297	TPH 1298	TPH 1299	TPH 1300	TPH 1301	TPH 1302	TPH 1303	TPH 1304	TPH 1305	TPH 1306	TPH 1307	TPH 1308	TPH 1309	TPH 1310	TPH 1311	TPH 1312	TPH 1313	TPH 1314	TPH 1315	TPH 1316	TPH 1317	TPH 1318	TPH 1319	TPH 1320	TPH 1321	TPH 1322	TPH 1323	TPH 1324	TPH 1325	TPH 1326	TPH 1327	TPH 1328	TPH 1329	TPH 1330	TPH 1331	TPH 1332	TPH 1333	TPH 1334	TPH 1335	TPH 1336	TPH 1337	TPH 1338	TPH 1339	TPH 1340	TPH 1341	TPH 1342	TPH 1343	TPH 1344	TPH 1345	TPH 1346	TPH 1347	TPH 1348	TPH 1349	TPH 1350	TPH 1351	TPH 1352	TPH 1353	TPH 1354	TPH 1355	TPH 1356	TPH 1357	TPH 1358	TPH 1359	TPH 1360	TPH 1361	TPH 1362	TPH 1363	TPH 1364	TPH 1365	TPH 1366	TPH 1367	TPH 1368	TPH 1369	TPH 1370	TPH 1371	TPH 1372	TPH 1373	TPH 1374	TPH 1375	TPH 1376	TPH 1377	TPH 1378	TPH 1379	TPH 1380	TPH 1381	TPH 1382	TPH 1383	TPH 1384	TPH 1385	TPH 1386	TPH 1387	TPH 1388	TPH 1389	TPH 1390	TPH 1391	TPH 1392	TPH 1393	TPH 1394	TPH 1395	TPH 1396	TPH 1397	TPH 1398	TPH 1399	TPH 1400	TPH 1401	TPH 1402	TPH 1403	TPH 1404	TPH 1405	TPH 1406	TPH 1407	TPH 1408	TPH 1409	TPH 1410	TPH 1411	TPH 1412	TPH 1413	TPH 1414	TPH 1415	TPH 1416	TPH 1417	TPH 1418	TPH 1419	TPH 1420	TPH 1421	TPH 1422	TPH 1423	TPH 1424	TPH 1425	TPH 1426	TPH 1427	TPH 1428	TPH 1429	TPH 1430	TPH 1431	TPH 1432	TPH 1433	TPH 1434	TPH 1435	TPH 1436	TPH 1437	TPH 1438	TPH 1439	TPH 1440	TPH 1441	TPH 1442	TPH 1443	TPH 1444	TPH 1445	TPH 1446	TPH 1447	TPH 1448	TPH 1449	TPH 1450	TPH 1451	TPH 1452	TPH 1453	TPH 1454	TPH 1455	TPH 1456	TPH 1457	TPH 1458	TPH 1459	TPH 1460	TPH 1461	TPH 1462	TPH 1463	TPH 1464	TPH 1465	TPH 1466	TPH 1467	TPH 1468	TPH 1469	TPH 1470	TPH 1471	TPH 1472	TPH 1473	TPH 1474	TPH 1475	TPH 1476	TPH 1477	TPH 1478	TPH 1479	TPH 1480	TPH 1481	TPH 1482	TPH 1483	TPH 1484	TPH 1485	TPH 1486	TPH 1487	TPH 1488	TPH 1489	TPH 1490	TPH 1491	TPH 1492	TPH 1493	TPH 1494	TPH 1495	TPH 1496	TPH 1497	TPH 1498	TPH 1499	TPH 1500	TPH 1501	TPH 1502	TPH 1503	TPH 1504	TPH 1505	TPH 1506	TPH 1507	TPH 1508	TPH 1509	TPH 1510	TPH 1511	TPH 1512	TPH 1513	TPH 1514	TPH 1515	TPH 1516	TPH 1517	TPH 1518	TPH 1519	TPH 1520	TPH 1521	TPH 1522	TPH 1523	TPH 1524	TPH 1525	TPH 1526	TPH 1527	TPH 1528	TPH 1529	TPH 1530	TPH 1531	TPH 1532	TPH 1533	TPH 1534	TPH 1535	TPH 1536	TPH 1537	TPH 1538	TPH 1539	TPH 1540	TPH 1541	TPH 1542	TPH 1543	TPH 1544	TPH 1545	TPH 1546	TPH 1547	TPH 1548	TPH 1549	TPH 1550	TPH 1551	TPH 1552	TPH 1553	TPH 1554	TPH 1555	TPH 1556	TPH 1557	TPH 1558	TPH 1559	TPH 1560	TPH 1561	TPH 1562	TPH 1563	TPH 1564	TPH 1565	TPH 1566	TPH 1567	TPH 1568	TPH 1569	TPH 1570	TPH 1571	TPH 1572	TPH 1573	TPH 1574	TPH 1575	TPH 1576	TPH 1577	TPH 1578	TPH 1579	TPH 1580	TPH 1581	TPH 1582	TPH 1583	TPH 1584	TPH 1585	TPH 1586	TPH 1587	TPH 1588	TPH 1589	TPH 1590	TPH 1591	TPH 1592	TPH 1593	TPH 1594	TPH 1595	TPH 1596	TPH 1597	TPH 1598	TPH 1599	TPH 1600	TPH 1601	TPH 1602	TPH 1603	TPH 1604	TPH 1605	TPH 1606	TPH 1607	TPH 1608	TPH 1609	TPH 1610	TPH 1611	TPH 1612	TPH 1613	TPH 1614	TPH 1615	TPH 1616	TPH 1617	TPH 1618	TPH 1619	TPH 1620	TPH 1621	TPH 1622	TPH 1623	TPH 1624	TPH 1625	TPH 1626	TPH 1627	TPH 1628	TPH 1629	TPH 1630	TPH 1631	TPH 1632	TPH 1633	TPH 1634	TPH 1635	TPH 1636	TPH 1637	TPH 1638	TPH 1639	TPH 1640	TPH 1641	TPH 1642	TPH 1643	TPH 1644	TPH 1645	TPH 1646	TPH 1647	TPH 1648	TPH 1649	TPH 1650	TPH 1651	TPH 1652	TPH 1653	TPH 1654	TPH 1655	TPH 1656	TPH 1657	TPH 1658	TPH 1659	TPH 1660	TPH 1661	TPH 1662	TPH 1663	TPH 1664	TPH 1665	TPH 1666	TPH 1667	TPH 1668	TPH 1669	TPH 1670	TPH 1671	TPH 1672	TPH 1673	TPH 1674	TPH 1675	TPH 1676	TPH 1677	TPH 1678	TPH 1679	TPH 1680	TPH 1681	TPH 1682	TPH 1683	TPH 1684	TPH 1685	TPH 1686	TPH 1687	TPH 1688	TPH 1689	TPH 1690	TPH 1691	TPH 1692	TPH 1693	TPH 1694	TPH 1695	TPH 1696	TPH 1697	TPH 1698	TPH 1699	TPH 1700	TPH 1701	TPH 1702	TPH 1703	TPH 1704	TPH 1705	TPH 1706	TPH 1707	TPH 1708	TPH 1709	TPH 1710	TPH 1711	TPH 1712	TPH 1713	TPH 1714	TPH 1715	TPH 1716	TPH 1717	TPH 1718	TPH 1719	TPH 1720	TPH 1721	TPH 1722	TPH 1723	TPH 1724	TPH 1725	TPH 1726	TPH 1727	TPH 1728	TPH 1729	TPH 1730	TPH 1731	TPH 1732	TPH 1733	TPH 1734	TPH 1735	TPH 1736	TPH 1737	TPH 1738	TPH 1739	TPH 1740	TPH 1741	TPH 1742	TPH 1743	TPH 1744	TPH 1745	TPH 1746	TPH 1747	TPH 1748	TPH 1749	TPH 1750	TPH 1751	TPH 1752	TPH 1753	TPH 1754	TPH 1755	TPH 1756	TPH 1757	TPH 1758	TPH 1759	TPH 1760	TPH 1761	TPH 1762	TPH 1763	TPH 1764	TPH 1765	TPH 1766	TPH 1767	TPH 1768	TPH 1769	TPH 1770	TPH 1771	TPH 1772	TPH 1773	TPH 1774	TPH 1775	TPH 1776	TPH 1777	TPH 1778	TPH 1779	TPH 1780	TPH 1781	TPH 1782	TPH 1783	TPH 1784	TPH 1785	TPH 1786	TPH 1787	TPH 1788	TPH 1789	TPH 1790	TPH 1791	TPH 1792	TPH 1793	TPH 1794	TPH 1795	TPH 1796	TPH 1797	TPH 1798	TPH 1799	TPH 1800	TPH 1801	TPH 1802	TPH 1803	TPH 1804	TPH 1805	TPH 1806	TPH 1807	TPH 1808	TPH 1809	TPH 1810	TPH 1811	TPH 1812	TPH 1813	TPH 1814	TPH 1815	TPH 1816	TPH 1817	TPH 1818	TPH 1819	TPH 1820	TPH 1821	TPH 1822	TPH 1823	TPH 1824	TPH 1825	TPH 1826	TPH 1827	TPH 1828	TPH 1829	TPH 1830	TPH 1831	TPH 1832	TPH 1833	TPH 1834	TPH 1835	TPH 1836	TPH 1837	TPH 1838	TPH 1839	TPH 1840	TPH 1841	TPH 1842	TPH 1843	TPH 1844	TPH 1845	TPH 1846	TPH 1847	TPH 1848	TPH 1849	TPH 1850	TPH 1851	TPH 1852	TPH 1853	TPH 1854	TPH 1855	TPH 1856	TPH 1857	TPH 1858	TPH 1859	TPH 1860	TPH 1861	TPH 1862	TPH 1863	TPH 1864	TPH 1865	TPH 1866	TPH 1867	TPH 1868	TPH 1869	TPH 1870	TPH 1871	TPH 1872	TPH 1873	TPH 1874	TPH 1875	TPH 1876	TPH 1877	TPH 1878	TPH 1879	TPH 1880	TPH 1881	TPH 1882	TPH 1883	TPH 1884	TPH 1885	TPH 1886	TPH 1887	TPH 1888	TPH 1889	TPH 1890	TPH 1891	TPH 1892	TPH 1893	TPH 1894	TPH 1895	TPH 1896	TPH 1897	TPH 1898	TPH 1899	TPH 1900	TPH 1901	TPH 1902	TPH 1903	TPH 1904	TPH 1905	TPH 1906	TPH 1907	TPH 1908	TPH 1909	TPH 1910	TPH 1911	TPH 1912	TPH 1913	TPH 1914	TPH 1915	TPH 1916	TPH 1917	TPH 1918	TPH 1919	TPH 1920	TPH 1921	TPH 1922	TPH 1923	TPH 1924	TPH 1925	TPH 1926	TPH 1927	TPH 1928	TPH 1929	TPH 1930	TPH 1931	TPH 1932	TPH 1933	TPH 1934	TPH 1935	TPH 1936	TPH 1937	TPH 1938	TPH 1939	TPH 1940	TPH 1941	TPH 1942	TPH 1943	TPH 1944	TPH 1945	TPH 1946	TPH 1947	TPH 1948	TPH 1949	TPH 1950	TPH 1951	TPH 1952	TPH 1953	TPH 1954	TPH 1955	TPH 1956	TPH 1957	TPH 1958	TPH 1959	TPH 1960	TPH 1961	TPH 1962	TPH 1963	TPH 1964	TPH 1965	TPH 1966	TPH 1967	TPH 1968	TPH 1969	TPH 1970	TPH 1971	TPH 1972

FedEx US Airbill
Express

8660 4930 2486

0200

FedEx Retrieval Copy

fedex.com 1800.GoFedEx 1800.463.3339

1 From
Date 1-20-09 Sender's FedEx Account Number 140246697
Sender's Name CHRIS MANFURI Phone 512 523-6080
Company TRC
Address 555 E. Howard Dr 250
City Austin State TX ZIP 78752

2 Your Internal Billing Reference 165033.01

3 To
Recipient's Name Rockbury
Company DFL Analytical
Recipient's Address 2300 Double Creek Drive
City Round Rock State TX ZIP 78664



8660 4930 2486

4a Express Package Service
☒ FedEx Priority Overnight
☐ FedEx Standard Overnight
☐ FedEx 2Day
☐ FedEx 2Day Freight
☐ FedEx 1Day Freight
☐ FedEx Envelope
☐ FedEx Pak
☐ Special Handling
☐ SATURDAY Delivery

5 Packaging
☐ FedEx Envelope
☐ FedEx Pak
☐ FedEx Box
☐ FedEx Tube
☒ Other

6 Residential Delivery Signature Options
☐ No Signature Required
☐ Direct Signature
☐ Indirect Signature

CUSTODY SEAL

DATE

SIGNATURE

QFC
Quality Environmental Containers
800-255-3950 • 304-255-3950

FedEx *US Airbill*
Express

8660 4930 2486

0200

Form
ED 140

FedEx Copy

fedex.com 1.800.GoFedEx 1.800.453.3339

1 From
Date 1-20-09 Sender's FedEx Account Number 140246697
Sender's Name CHRIS MANEURI Phone 512 527-6080
Company TRC
Address 585 E. Hurland Dr 2502
City Austin State TX ZIP 78752

2 Your Internal Billing Reference 165033.01

3 To
Recipient's Name Rockbury Phone 512 388-8222
Company DAL Analytical
Recipient's Address @ 2300 Double Creek Drive
We cannot deliver to P.O. boxes or PO ZIP codes.
Address Round Rock State TX ZIP 78664
To request a package be held at a specific FedEx location, print FedEx address here.



8660 4930 2486

4a Express Package Service Packages up to 150 lbs.
☒ **1** FedEx Priority Overnight Next business morning. * Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ **5** FedEx Standard Overnight Next business afternoon. * Saturday Delivery NOT available.
☐ **6** FedEx First Overnight Earliest next business morning delivery to select locations. * Saturday Delivery NOT available.
☐ **3** FedEx 2Day Second business day. * Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ **20** FedEx Express Saver Third business day. * Saturday Delivery NOT available.
4b Express Freight Service Packages over 150 lbs.
☐ **7** FedEx 1Day Freight Next business day. * Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ **8** FedEx 2Day Freight Second business day. * Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
☐ **83** FedEx 3Day Freight Third business day. * Saturday Delivery NOT available.
5 Packaging
☐ **6** FedEx Envelope* ☐ **2** FedEx Pak* ☐ **3** FedEx Box ☐ **4** FedEx Tube ☐ **1** Other
 * Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. Declared value limit \$500.
6 Special Handling Includes: In-Alt. address to Sender's A.
☐ **7** **SATURDAY DELIVERY** ☐ **1** HOLD Weekday at FedEx Location Not available for FedEx First Overnight. ☐ **31** HOLD Saturday at FedEx Location Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.
 Does this shipment contain dangerous goods? If you have not been licensed, ☒ **No** ☐ **Yes** As per attached Shipper's Declaration. ☐ **Yes** Shipper's Declaration not required. ☐ **6** Dry Ice Dry Ice, 3, UN 1845 ☐ **6** Cargo Aircraft Only
7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below. (When Group Acct. No.)
☒ **1** Sender ☐ **2** Recipient ☐ **3** Third Party ☐ **4** Credit Card ☐ **5** Cash/Check
 FedEx Acct. No. Credit Card No. Exp. Date
 Total Packages 2 Total Weight 2 Total Declared Value! \$ 00
 Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details. Credit Card Auth.
8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.
☐ **No Signature Required** Package may be left without obtaining a signature for delivery.
☐ **10** **Direct Signature** Someone at recipient's address may sign for delivery. Fee applies.
☐ **34** **Indirect Signature** If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.
 Net. Data 10/09-Part #150281 ©1994-2008 FedEx-PHILADELPHIA U.S.A. SRY

CUSTODY SEAL
DATE 1-20-09
SIGNATURE [Signature]

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

Sample Receipt Checklist

Client Name TRC Environmental Corp.

Date Received: 1/21/2009

Work Order Number 0901115

Received by JB

Checklist completed by: [Signature] 1/21/09
Signature Date

Reviewed by: [Initials] 1/21/09
Initials Date

Carrier name: FedEx 1day

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes ☒ | No ☐ | Not Present ☐ |
| Custody seals intact on shipping container/cooler? | Yes ☒ | No ☐ | Not Present ☐ |
| Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Present ☒ |
| Chain of custody present? | Yes ☒ | No ☐ | |
| Chain of custody signed when relinquished and received? | Yes ☒ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☒ | No ☐ | |
| Samples in proper container/bottle? | Yes ☒ | No ☐ | |
| Sample containers intact? | Yes ☒ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☒ | No ☐ | |
| All samples received within holding time? | Yes ☒ | No ☐ | |
| Container/Temp Blank temperature in compliance? | Yes ☒ | No ☐ | 2.8 °C |
| Water - VOA vials have zero headspace? | Yes ☐ | No ☐ | No VOA vials submitted ☒ |
| Water - pH acceptable upon receipt? | Yes ☒ | No ☐ | Not Applicable ☐ |

Adjusted? NO Checked by [Signature]

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

CLIENT: TRC Environmental Corp.
Project: RRC Wendkirk BMP
Lab Order: 0901115

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

Method SW6020 - Metals Analysis
Method E300 - Anions Analysis
Method M2320 B (18th Edition) - Alkalinity Analysis
Method M2510 B (18th Edition) - Specific Conductance
Method M2540C (18th Edition) - TDS Analysis

LOG IN

Samples were received and log-in performed on 1/21/09. A total of 16 samples were received. The samples arrived in good condition and were properly packaged.

METALS ANALYSIS

For Metals analysis performed on 1/29/09 the matrix spike and matrix spike duplicate recoveries were out of control limits for a few analytes. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for these analytes. No further corrective actions were taken.

For Metals analysis performed on 1/29/09 the RPD for the serial dilution was slightly above control limits for Calcium. This is flagged accordingly. The PDS was within control limits for this analyte. No further corrective actions were taken.

CLIENT: TRC Environmental Corp.
Project: RRC Wendkirk BMP
Lab Order: 0901115

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
0901115-01	W-RS-14		01/19/09 11:15 AM	01/21/09
0901115-02	W-RS-14-D		01/19/09 11:15 AM	01/21/09
0901115-03	W-RS-15		01/19/09 11:50 AM	01/21/09
0901115-04	W-RS-16		01/19/09 12:45 PM	01/21/09
0901115-05	W-RS-17		01/19/09 01:20 PM	01/21/09
0901115-06	W-RS-13		01/19/09 02:25 PM	01/21/09
0901115-07	W-RS-12		01/19/09 02:43 PM	01/21/09
0901115-08	W-SG-4314102-01		01/19/09 05:04 PM	01/21/09
0901115-09	W-MW-13		01/20/09 09:30 AM	01/21/09
0901115-10	W-MW-9		01/20/09 10:22 AM	01/21/09
0901115-11	W-MW-14		01/20/09 12:11 PM	01/21/09
0901115-12	W-MW-8		01/20/09 01:10 PM	01/21/09
0901115-13	W-MW-7		01/20/09 01:48 PM	01/21/09
0901115-14	W-SP-01		01/20/09 02:44 PM	01/21/09
0901115-15	W-MW-16		01/20/09 03:27 PM	01/21/09
0901115-16	W-MW-4		01/20/09 03:20 PM	01/21/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Lab Order: 0901115

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0901115-01A	W-RS-14	01/19/09 11:15 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
	W-RS-14	01/19/09 11:15 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
0901115-01B	W-RS-14	01/19/09 11:15 AM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-RS-14	01/19/09 11:15 AM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-RS-14	01/19/09 11:15 AM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
0901115-01C	W-RS-14	01/19/09 11:15 AM	Aqueous	M2320 B	Alkalinity Preparation	01/22/09 12:00 PM	33121
	W-RS-14	01/19/09 11:15 AM	Aqueous	M2510 B	Conductivity Preparation	01/22/09 09:40 AM	33107
	W-RS-14	01/19/09 11:15 AM	Aqueous	M2540C	TDS Preparation	01/22/09 11:51 AM	33116
0901115-02A	W-RS-14-D	01/19/09 11:15 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
	W-RS-14-D	01/19/09 11:15 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
0901115-02B	W-RS-14-D	01/19/09 11:15 AM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-RS-14-D	01/19/09 11:15 AM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-RS-14-D	01/19/09 11:15 AM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
0901115-02C	W-RS-14-D	01/19/09 11:15 AM	Aqueous	M2320 B	Alkalinity Preparation	01/22/09 12:00 PM	33121
	W-RS-14-D	01/19/09 11:15 AM	Aqueous	M2510 B	Conductivity Preparation	01/22/09 09:40 AM	33107
	W-RS-14-D	01/19/09 11:15 AM	Aqueous	M2540C	TDS Preparation	01/22/09 11:51 AM	33116
0901115-03A	W-RS-15	01/19/09 11:50 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
	W-RS-15	01/19/09 11:50 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
0901115-03B	W-RS-15	01/19/09 11:50 AM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-RS-15	01/19/09 11:50 AM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-RS-15	01/19/09 11:50 AM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
0901115-03C	W-RS-15	01/19/09 11:50 AM	Aqueous	M2320 B	Alkalinity Preparation	01/22/09 12:00 PM	33121
	W-RS-15	01/19/09 11:50 AM	Aqueous	M2510 B	Conductivity Preparation	01/22/09 09:40 AM	33107
	W-RS-15	01/19/09 11:50 AM	Aqueous	M2540C	TDS Preparation	01/22/09 11:51 AM	33116
0901115-04A	W-RS-16	01/19/09 12:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
	W-RS-16	01/19/09 12:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
0901115-04B	W-RS-16	01/19/09 12:45 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-RS-16	01/19/09 12:45 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-RS-16	01/19/09 12:45 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Lab Order: 0901115

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0901115-04C	W-RS-16	01/19/09 12:45 PM	Aqueous	M2320 B	Alkalinity Preparation	01/22/09 12:00 PM	33121
	W-RS-16	01/19/09 12:45 PM	Aqueous	M2510 B	Conductivity Preparation	01/22/09 09:40 AM	33107
	W-RS-16	01/19/09 12:45 PM	Aqueous	M2540C	TDS Preparation	01/22/09 11:51 AM	33116
0901115-05A	W-RS-17	01/19/09 01:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
	W-RS-17	01/19/09 01:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
0901115-05B	W-RS-17	01/19/09 01:20 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-RS-17	01/19/09 01:20 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-RS-17	01/19/09 01:20 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
0901115-05C	W-RS-17	01/19/09 01:20 PM	Aqueous	M2320 B	Alkalinity Preparation	01/22/09 12:00 PM	33121
	W-RS-17	01/19/09 01:20 PM	Aqueous	M2510 B	Conductivity Preparation	01/22/09 09:40 AM	33107
	W-RS-17	01/19/09 01:20 PM	Aqueous	M2540C	TDS Preparation	01/22/09 11:51 AM	33116
0901115-06A	W-RS-13	01/19/09 02:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
	W-RS-13	01/19/09 02:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
0901115-06B	W-RS-13	01/19/09 02:25 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-RS-13	01/19/09 02:25 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-RS-13	01/19/09 02:25 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
0901115-06C	W-RS-13	01/19/09 02:25 PM	Aqueous	M2320 B	Alkalinity Preparation	01/22/09 12:00 PM	33121
	W-RS-13	01/19/09 02:25 PM	Aqueous	M2510 B	Conductivity Preparation	01/22/09 09:40 AM	33107
	W-RS-13	01/19/09 02:25 PM	Aqueous	M2540C	TDS Preparation	01/22/09 11:51 AM	33116
0901115-07A	W-RS-12	01/19/09 02:43 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
	W-RS-12	01/19/09 02:43 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
0901115-07B	W-RS-12	01/19/09 02:43 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-RS-12	01/19/09 02:43 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-RS-12	01/19/09 02:43 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
0901115-07C	W-RS-12	01/19/09 02:43 PM	Aqueous	M2320 B	Alkalinity Preparation	01/22/09 12:00 PM	33121
	W-RS-12	01/19/09 02:43 PM	Aqueous	M2510 B	Conductivity Preparation	01/22/09 09:40 AM	33107
	W-RS-12	01/19/09 02:43 PM	Aqueous	M2540C	TDS Preparation	01/22/09 11:51 AM	33116
0901115-08A	W-SG-4314102-01	01/19/09 05:04 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
	W-SG-4314102-01	01/19/09 05:04 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Lab Order: 0901115

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0901115-08B	W-SG-4314102-01	01/19/09 05:04 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-SG-4314102-01	01/19/09 05:04 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
0901115-08C	W-SG-4314102-01	01/19/09 05:04 PM	Aqueous	M2320 B	Alkalinity Preparation	01/22/09 12:00 PM	33121
	W-SG-4314102-01	01/19/09 05:04 PM	Aqueous	M2510 B	Conductivity Preparation	01/22/09 09:40 AM	33107
	W-SG-4314102-01	01/19/09 05:04 PM	Aqueous	M2540C	TDS Preparation	01/22/09 11:51 AM	33116
0901115-09A	W-MW-13	01/20/09 09:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
	W-MW-13	01/20/09 09:30 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
0901115-09B	W-MW-13	01/20/09 09:30 AM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-MW-13	01/20/09 09:30 AM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-MW-13	01/20/09 09:30 AM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-MW-13	01/20/09 09:30 AM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
0901115-09C	W-MW-13	01/20/09 09:30 AM	Aqueous	M2320 B	Alkalinity Preparation	01/22/09 12:00 PM	33121
	W-MW-13	01/20/09 09:30 AM	Aqueous	M2510 B	Conductivity Preparation	01/22/09 09:40 AM	33107
	W-MW-13	01/20/09 09:30 AM	Aqueous	M2540C	TDS Preparation	01/22/09 11:51 AM	33116
0901115-10A	W-MW-9	01/20/09 10:22 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
	W-MW-9	01/20/09 10:22 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
0901115-10B	W-MW-9	01/20/09 10:22 AM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-MW-9	01/20/09 10:22 AM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-MW-9	01/20/09 10:22 AM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
0901115-10C	W-MW-9	01/20/09 10:22 AM	Aqueous	M2320 B	Alkalinity Preparation	01/22/09 12:00 PM	33121
	W-MW-9	01/20/09 10:22 AM	Aqueous	M2510 B	Conductivity Preparation	01/22/09 09:40 AM	33107
	W-MW-9	01/20/09 10:22 AM	Aqueous	M2540C	TDS Preparation	01/23/09 03:00 PM	33143
0901115-11A	W-MW-14	01/20/09 12:11 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
	W-MW-14	01/20/09 12:11 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
0901115-11B	W-MW-14	01/20/09 12:11 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-MW-14	01/20/09 12:11 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-MW-14	01/20/09 12:11 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-MW-14	01/20/09 12:11 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
0901115-11C	W-MW-14	01/20/09 12:11 PM	Aqueous	M2320 B	Alkalinity Preparation	01/22/09 12:00 PM	33121

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Lab Order: 0901115

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	W-MW-14	01/20/09 12:11 PM	Aqueous	M2510 B	Conductivity Preparation	01/22/09 09:40 AM	33107
	W-MW-14	01/20/09 12:11 PM	Aqueous	M2540C	TDS Preparation	01/23/09 03:00 PM	33143
0901115-12A	W-MW-8	01/20/09 01:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
	W-MW-8	01/20/09 01:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
0901115-12B	W-MW-8	01/20/09 01:10 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-MW-8	01/20/09 01:10 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
0901115-12C	W-MW-8	01/20/09 01:10 PM	Aqueous	M2320 B	Alkalinity Preparation	01/22/09 12:00 PM	33121
	W-MW-8	01/20/09 01:10 PM	Aqueous	M2510 B	Conductivity Preparation	01/22/09 09:40 AM	33107
	W-MW-8	01/20/09 01:10 PM	Aqueous	M2540C	TDS Preparation	01/23/09 03:00 PM	33143
0901115-13A	W-MW-7	01/20/09 01:48 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
	W-MW-7	01/20/09 01:48 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
0901115-13B	W-MW-7	01/20/09 01:48 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-MW-7	01/20/09 01:48 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
0901115-13C	W-MW-7	01/20/09 01:48 PM	Aqueous	M2320 B	Alkalinity Preparation	01/22/09 12:00 PM	33121
	W-MW-7	01/20/09 01:48 PM	Aqueous	M2510 B	Conductivity Preparation	01/22/09 09:40 AM	33107
	W-MW-7	01/20/09 01:48 PM	Aqueous	M2540C	TDS Preparation	01/23/09 03:00 PM	33143
0901115-14A	W-SP-01	01/20/09 02:44 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
0901115-14B	W-SP-01	01/20/09 02:44 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-SP-01	01/20/09 02:44 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
0901115-14C	W-SP-01	01/20/09 02:44 PM	Aqueous	M2320 B	Alkalinity Preparation	01/22/09 12:00 PM	33121
	W-SP-01	01/20/09 02:44 PM	Aqueous	M2510 B	Conductivity Preparation	01/22/09 09:40 AM	33107
	W-SP-01	01/20/09 02:44 PM	Aqueous	M2540C	TDS Preparation	01/23/09 03:00 PM	33143
0901115-15A	W-MW-16	01/20/09 03:27 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
0901115-15B	W-MW-16	01/20/09 03:27 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-MW-16	01/20/09 03:27 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-MW-16	01/20/09 03:27 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
0901115-15C	W-MW-16	01/20/09 03:27 PM	Aqueous	M2320 B	Alkalinity Preparation	01/22/09 12:00 PM	33121
	W-MW-16	01/20/09 03:27 PM	Aqueous	M2510 B	Conductivity Preparation	01/22/09 09:40 AM	33107
	W-MW-16	01/20/09 03:27 PM	Aqueous	M2540C	TDS Preparation	01/23/09 03:00 PM	33143

CLIENT: TRC Environmental Corp.
Project: RRC Wendkirk BMP
Lab Order: 0901115

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0901115-16A	W-MW-4	01/20/09 03:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
	W-MW-4	01/20/09 03:20 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	01/23/09 09:19 AM	33129
0901115-16B	W-MW-4	01/20/09 03:20 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
	W-MW-4	01/20/09 03:20 PM	Aqueous	E300	Anion Preparation	01/21/09 02:30 PM	33097
0901115-16C	W-MW-4	01/20/09 03:20 PM	Aqueous	M2320 B	Alkalinity Preparation	01/22/09 12:00 PM	33121
	W-MW-4	01/20/09 03:20 PM	Aqueous	M2510 B	Conductivity Preparation	01/22/09 09:40 AM	33107
	W-MW-4	01/20/09 03:20 PM	Aqueous	M2540C	TDS Preparation	01/23/09 03:00 PM	33143

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Lab Order: 0901115

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0901115-01A	W-RS-14	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	125	01/29/09 12:45 PM	ICP-MS2_090129A
	W-RS-14	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	25	01/29/09 02:42 PM	ICP-MS2_090129A
0901115-01B	W-RS-14	Aqueous	E300	Anions by IC method - Water	33097	1	01/21/09 03:48 PM	IC2_090121A
	W-RS-14	Aqueous	E300	Anions by IC method - Water	33097	10	01/22/09 09:59 AM	IC2_090122A
	W-RS-14	Aqueous	E300	Anions by IC method - Water	33097	100	01/22/09 03:42 PM	IC2_090122A
0901115-01C	W-RS-14	Aqueous	M2320 B	Alkalinity	33121	1	01/22/09 01:48 PM	TITRATOR_090122A
	W-RS-14	Aqueous	M2510 B	Specific Conductance	33107	1	01/22/09 09:30 AM	WC_090122A
	W-RS-14	Aqueous	M2540C	Total Dissolved Solids	33116	1	01/22/09 01:15 PM	WC_090122B
0901115-02A	W-RS-14-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	125	01/29/09 12:51 PM	ICP-MS2_090129A
	W-RS-14-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	25	01/29/09 02:47 PM	ICP-MS2_090129A
0901115-02B	W-RS-14-D	Aqueous	E300	Anions by IC method - Water	33097	1	01/21/09 04:02 PM	IC2_090121A
	W-RS-14-D	Aqueous	E300	Anions by IC method - Water	33097	10	01/22/09 10:13 AM	IC2_090122A
	W-RS-14-D	Aqueous	E300	Anions by IC method - Water	33097	100	01/22/09 03:57 PM	IC2_090122A
0901115-02C	W-RS-14-D	Aqueous	M2320 B	Alkalinity	33121	1	01/22/09 01:51 PM	TITRATOR_090122A
	W-RS-14-D	Aqueous	M2510 B	Specific Conductance	33107	1	01/22/09 09:30 AM	WC_090122A
	W-RS-14-D	Aqueous	M2540C	Total Dissolved Solids	33116	1	01/22/09 01:15 PM	WC_090122B
0901115-03A	W-RS-15	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	125	01/29/09 12:56 PM	ICP-MS2_090129A
	W-RS-15	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	25	01/29/09 02:53 PM	ICP-MS2_090129A
0901115-03B	W-RS-15	Aqueous	E300	Anions by IC method - Water	33097	1	01/21/09 04:17 PM	IC2_090121A
	W-RS-15	Aqueous	E300	Anions by IC method - Water	33097	10	01/22/09 10:28 AM	IC2_090122A
	W-RS-15	Aqueous	E300	Anions by IC method - Water	33097	100	01/22/09 04:12 PM	IC2_090122A
0901115-03C	W-RS-15	Aqueous	M2320 B	Alkalinity	33121	1	01/22/09 01:53 PM	TITRATOR_090122A
	W-RS-15	Aqueous	M2510 B	Specific Conductance	33107	1	01/22/09 09:30 AM	WC_090122A
	W-RS-15	Aqueous	M2540C	Total Dissolved Solids	33116	1	01/22/09 01:15 PM	WC_090122B
0901115-04A	W-RS-16	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	125	01/29/09 01:02 PM	ICP-MS2_090129A
	W-RS-16	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	25	01/29/09 02:58 PM	ICP-MS2_090129A
0901115-04B	W-RS-16	Aqueous	E300	Anions by IC method - Water	33097	1	01/21/09 04:32 PM	IC2_090121A
	W-RS-16	Aqueous	E300	Anions by IC method - Water	33097	10	01/22/09 10:43 AM	IC2_090122A
	W-RS-16	Aqueous	E300	Anions by IC method - Water	33097	100	01/22/09 04:26 PM	IC2_090122A

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Lab Order: 0901115

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0901115-04C	W-RS-16	Aqueous	M2320 B	Alkalinity	33121	1	01/22/09 01:56 PM	TITRATOR_090122A
	W-RS-16	Aqueous	M2510 B	Specific Conductance	33107	1	01/22/09 09:30 AM	WC_090122A
	W-RS-16	Aqueous	M2540C	Total Dissolved Solids	33116	1	01/22/09 01:15 PM	WC_090122B
0901115-05A	W-RS-17	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	125	01/29/09 01:07 PM	ICP-MS2_090129A
	W-RS-17	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	25	01/29/09 03:04 PM	ICP-MS2_090129A
0901115-05B	W-RS-17	Aqueous	E300	Anions by IC method - Water	33097	1	01/21/09 05:09 PM	IC2_090121A
	W-RS-17	Aqueous	E300	Anions by IC method - Water	33097	10	01/22/09 10:57 AM	IC2_090122A
	W-RS-17	Aqueous	E300	Anions by IC method - Water	33097	100	01/22/09 04:41 PM	IC2_090122A
0901115-05C	W-RS-17	Aqueous	M2320 B	Alkalinity	33121	1	01/22/09 01:59 PM	TITRATOR_090122A
	W-RS-17	Aqueous	M2510 B	Specific Conductance	33107	1	01/22/09 09:30 AM	WC_090122A
	W-RS-17	Aqueous	M2540C	Total Dissolved Solids	33116	1	01/22/09 01:15 PM	WC_090122B
0901115-06A	W-RS-13	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	125	01/29/09 01:13 PM	ICP-MS2_090129A
	W-RS-13	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	25	01/29/09 03:21 PM	ICP-MS2_090129A
0901115-06B	W-RS-13	Aqueous	E300	Anions by IC method - Water	33097	1	01/21/09 05:24 PM	IC2_090121A
	W-RS-13	Aqueous	E300	Anions by IC method - Water	33097	10	01/22/09 11:12 AM	IC2_090122A
	W-RS-13	Aqueous	E300	Anions by IC method - Water	33097	100	01/22/09 04:56 PM	IC2_090122A
0901115-06C	W-RS-13	Aqueous	M2320 B	Alkalinity	33121	1	01/22/09 02:02 PM	TITRATOR_090122A
	W-RS-13	Aqueous	M2510 B	Specific Conductance	33107	1	01/22/09 09:30 AM	WC_090122A
	W-RS-13	Aqueous	M2540C	Total Dissolved Solids	33116	1	01/22/09 01:15 PM	WC_090122B
0901115-07A	W-RS-12	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	125	01/29/09 01:18 PM	ICP-MS2_090129A
	W-RS-12	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	25	01/29/09 03:27 PM	ICP-MS2_090129A
0901115-07B	W-RS-12	Aqueous	E300	Anions by IC method - Water	33097	1	01/21/09 05:39 PM	IC2_090121A
	W-RS-12	Aqueous	E300	Anions by IC method - Water	33097	10	01/22/09 11:27 AM	IC2_090122A
	W-RS-12	Aqueous	E300	Anions by IC method - Water	33097	100	01/22/09 05:10 PM	IC2_090122A
0901115-07C	W-RS-12	Aqueous	M2320 B	Alkalinity	33121	1	01/22/09 02:10 PM	TITRATOR_090122A
	W-RS-12	Aqueous	M2510 B	Specific Conductance	33107	1	01/22/09 09:30 AM	WC_090122A
	W-RS-12	Aqueous	M2540C	Total Dissolved Solids	33116	1	01/22/09 01:15 PM	WC_090122B
0901115-08A	W-SG-4314102-01	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	500	01/29/09 11:37 AM	ICP-MS2_090129A
	W-SG-4314102-01	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	25	01/29/09 02:15 PM	ICP-MS2_090129A

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Lab Order: 0901115

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0901115-08B	W-SG-4314102-01	Aqueous	E300	Anions by IC method - Water	33097	1	01/21/09 05:53 PM	IC2_090121A
	W-SG-4314102-01	Aqueous	E300	Anions by IC method - Water	33097	100	01/22/09 11:58 AM	IC2_090122A
0901115-08C	W-SG-4314102-01	Aqueous	M2320 B	Alkalinity	33121	1	01/22/09 02:17 PM	TITRATOR_090122A
	W-SG-4314102-01	Aqueous	M2510 B	Specific Conductance	33107	1	01/22/09 09:30 AM	WC_090122A
	W-SG-4314102-01	Aqueous	M2540C	Total Dissolved Solids	33116	1	01/22/09 01:15 PM	WC_090122B
0901115-09A	W-MW-13	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	500	01/29/09 12:34 PM	ICP-MS2_090129A
	W-MW-13	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	25	01/29/09 03:32 PM	ICP-MS2_090129A
0901115-09B	W-MW-13	Aqueous	E300	Anions by IC method - Water	33097	1	01/21/09 06:08 PM	IC2_090121A
	W-MW-13	Aqueous	E300	Anions by IC method - Water	33097	100	01/22/09 12:29 PM	IC2_090122A
	W-MW-13	Aqueous	E300	Anions by IC method - Water	33097	1000	01/22/09 05:40 PM	IC2_090122A
	W-MW-13	Aqueous	E300	Anions by IC method - Water	33097	1000	02/02/09 11:21 AM	IC2_090202A
0901115-09C	W-MW-13	Aqueous	M2320 B	Alkalinity	33121	1	01/22/09 02:22 PM	TITRATOR_090122A
	W-MW-13	Aqueous	M2510 B	Specific Conductance	33107	1	01/22/09 09:30 AM	WC_090122A
	W-MW-13	Aqueous	M2540C	Total Dissolved Solids	33116	1	01/22/09 01:15 PM	WC_090122B
0901115-10A	W-MW-9	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	50	01/29/09 01:46 PM	ICP-MS2_090129A
	W-MW-9	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	1	01/26/09 08:53 PM	ICP-MS3_090126A
0901115-10B	W-MW-9	Aqueous	E300	Anions by IC method - Water	33097	1	01/21/09 06:23 PM	IC2_090121A
	W-MW-9	Aqueous	E300	Anions by IC method - Water	33097	10	01/22/09 12:43 PM	IC2_090122A
	W-MW-9	Aqueous	E300	Anions by IC method - Water	33097	10	02/02/09 10:51 AM	IC2_090202A
0901115-10C	W-MW-9	Aqueous	M2320 B	Alkalinity	33121	1	01/22/09 02:28 PM	TITRATOR_090122A
	W-MW-9	Aqueous	M2510 B	Specific Conductance	33107	1	01/22/09 09:30 AM	WC_090122A
	W-MW-9	Aqueous	M2540C	Total Dissolved Solids	33143	1	01/23/09 03:00 AM	WC_090123B
0901115-11A	W-MW-14	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	1000	01/29/09 12:07 PM	ICP-MS2_090129A
	W-MW-14	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	100	01/29/09 03:38 PM	ICP-MS2_090129A
0901115-11B	W-MW-14	Aqueous	E300	Anions by IC method - Water	33097	1	01/21/09 07:07 PM	IC2_090121A
	W-MW-14	Aqueous	E300	Anions by IC method - Water	33097	100	01/22/09 01:27 PM	IC2_090122A
	W-MW-14	Aqueous	E300	Anions by IC method - Water	33097	1000	01/22/09 05:55 PM	IC2_090122A
	W-MW-14	Aqueous	E300	Anions by IC method - Water	33097	1000	02/02/09 11:06 AM	IC2_090202A
0901115-11C	W-MW-14	Aqueous	M2320 B	Alkalinity	33121	1	01/22/09 02:34 PM	TITRATOR_090122A

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Lab Order: 0901115

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	W-MW-14	Aqueous	M2510 B	Specific Conductance	33107	2	01/22/09 09:30 AM	WC_090122A
	W-MW-14	Aqueous	M2540C	Total Dissolved Solids	33143	1	01/23/09 03:00 AM	WC_090123B
0901115-12A	W-MW-8	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	1000	01/29/09 12:12 PM	ICP-MS2_090129A
	W-MW-8	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	100	01/29/09 03:43 PM	ICP-MS2_090129A
0901115-12B	W-MW-8	Aqueous	E300	Anions by IC method - Water	33097	1	01/21/09 07:21 PM	IC2_090121A
	W-MW-8	Aqueous	E300	Anions by IC method - Water	33097	100	01/22/09 01:42 PM	IC2_090122A
0901115-12C	W-MW-8	Aqueous	M2320 B	Alkalinity	33121	1	01/22/09 02:40 PM	TITRATOR_090122A
	W-MW-8	Aqueous	M2510 B	Specific Conductance	33107	2	01/22/09 09:30 AM	WC_090122A
	W-MW-8	Aqueous	M2540C	Total Dissolved Solids	33143	1	01/23/09 03:00 AM	WC_090123B
0901115-13A	W-MW-7	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	50	01/29/09 01:51 PM	ICP-MS2_090129A
	W-MW-7	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	25	01/29/09 03:49 PM	ICP-MS2_090129A
0901115-13B	W-MW-7	Aqueous	E300	Anions by IC method - Water	33097	1	01/21/09 08:05 PM	IC2_090121A
	W-MW-7	Aqueous	E300	Anions by IC method - Water	33097	10	01/22/09 01:57 PM	IC2_090122A
0901115-13C	W-MW-7	Aqueous	M2320 B	Alkalinity	33121	1	01/22/09 02:44 PM	TITRATOR_090122A
	W-MW-7	Aqueous	M2510 B	Specific Conductance	33107	1	01/22/09 09:30 AM	WC_090122A
	W-MW-7	Aqueous	M2540C	Total Dissolved Solids	33143	1	01/23/09 03:00 AM	WC_090123B
0901115-14A	W-SP-01	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	50	01/29/09 01:57 PM	ICP-MS2_090129A
0901115-14B	W-SP-01	Aqueous	E300	Anions by IC method - Water	33097	1	01/21/09 08:49 PM	IC2_090121A
	W-SP-01	Aqueous	E300	Anions by IC method - Water	33097	10	01/22/09 02:58 PM	IC2_090122A
0901115-14C	W-SP-01	Aqueous	M2320 B	Alkalinity	33121	1	01/22/09 02:49 PM	TITRATOR_090122A
	W-SP-01	Aqueous	M2510 B	Specific Conductance	33107	1	01/22/09 09:30 AM	WC_090122A
	W-SP-01	Aqueous	M2540C	Total Dissolved Solids	33143	1	01/23/09 03:00 AM	WC_090123B
0901115-15A	W-MW-16	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	100	01/29/09 01:24 PM	ICP-MS2_090129A
0901115-15B	W-MW-16	Aqueous	E300	Anions by IC method - Water	33097	1	01/21/09 09:04 PM	IC2_090121A
	W-MW-16	Aqueous	E300	Anions by IC method - Water	33097	10	01/22/09 03:13 PM	IC2_090122A
	W-MW-16	Aqueous	E300	Anions by IC method - Water	33097	100	01/22/09 06:09 PM	IC2_090122A
0901115-15C	W-MW-16	Aqueous	M2320 B	Alkalinity	33121	1	01/22/09 02:53 PM	TITRATOR_090122A
	W-MW-16	Aqueous	M2510 B	Specific Conductance	33107	1	01/22/09 09:30 AM	WC_090122A
	W-MW-16	Aqueous	M2540C	Total Dissolved Solids	33143	1	01/23/09 03:00 AM	WC_090123B

CLIENT: TRC Environmental Corp.
Project: RRC Wendkirk BMP
Lab Order: 0901115

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0901115-16A	W-MW-4	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	500	01/29/09 12:40 PM	ICP-MS2_090129A
	W-MW-4	Aqueous	SW6020	Trace Metals: ICP-MS - Water	33129	25	01/29/09 03:54 PM	ICP-MS2_090129A
0901115-16B	W-MW-4	Aqueous	E300	Anions by IC method - Water	33097	1	01/21/09 09:19 PM	IC2_090121A
	W-MW-4	Aqueous	E300	Anions by IC method - Water	33097	100	01/22/09 03:28 PM	IC2_090122A
0901115-16C	W-MW-4	Aqueous	M2320 B	Alkalinity	33121	1	01/22/09 03:06 PM	TITRATOR_090122A
	W-MW-4	Aqueous	M2510 B	Specific Conductance	33107	1	01/22/09 09:30 AM	WC_090122A
	W-MW-4	Aqueous	M2540C	Total Dissolved Solids	33143	1	01/23/09 03:00 AM	WC_090123B

DHL Analytical

Date: 02/12/09

CLIENT: TRC Environmental Corp.
Project: RRC Wendkirk BMP
Project No: 165033.0000.0000
Lab Order: 0901115

Client Sample ID: W-RS-14
Lab ID: 0901115-01
Collection Date: 01/19/09 11:15 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	192	2.50	7.50		mg/L	25	01/29/09 02:42 PM
Magnesium	125	2.50	7.50		mg/L	25	01/29/09 02:42 PM
Potassium	19.9	2.50	7.50		mg/L	25	01/29/09 02:42 PM
Sodium	834	12.5	37.5		mg/L	125	01/29/09 12:45 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	3.92	0.300	1.00		mg/L	1	01/21/09 03:48 PM
Chloride	1280	30.0	100		mg/L	100	01/22/09 03:42 PM
Sulfate	744	10.0	30.0		mg/L	10	01/22/09 09:59 AM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO3)	182	10.0	20.0		mg/L	1	01/22/09 01:48 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	01/22/09 01:48 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	01/22/09 01:48 PM
Alkalinity, Total (As CaCO3)	182	10.0	20.0		mg/L	1	01/22/09 01:48 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	5230	10.0	10.0		µmhos/cm	1	01/22/09 09:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	3360	10.0	10.0		mg/L	1	01/22/09 01:15 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/12/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033.0000.0000
 Lab Order: 0901115

Client Sample ID: W-RS-14-D
 Lab ID: 0901115-02
 Collection Date: 01/19/09 11:15 AM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	187	2.50	7.50		mg/L	25	01/29/09 02:47 PM
Magnesium	121	2.50	7.50		mg/L	25	01/29/09 02:47 PM
Potassium	19.0	2.50	7.50		mg/L	25	01/29/09 02:47 PM
Sodium	824	12.5	37.5		mg/L	125	01/29/09 12:51 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	3.98	0.300	1.00		mg/L	1	01/21/09 04:02 PM
Chloride	1330	30.0	100		mg/L	100	01/22/09 03:57 PM
Sulfate	753	10.0	30.0		mg/L	10	01/22/09 10:13 AM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	183	10.0	20.0		mg/L	1	01/22/09 01:51 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 01:51 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 01:51 PM
Alkalinity, Total (As CaCO ₃)	183	10.0	20.0		mg/L	1	01/22/09 01:51 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	5360	10.0	10.0		µmhos/cm	1	01/22/09 09:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	3270	10.0	10.0		mg/L	1	01/22/09 01:15 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/12/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033.0000.0000
 Lab Order: 0901115

Client Sample ID: W-RS-15
 Lab ID: 0901115-03
 Collection Date: 01/19/09 11:50 AM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	200	2.50	7.50		mg/L	25	01/29/09 02:53 PM
Magnesium	125	2.50	7.50		mg/L	25	01/29/09 02:53 PM
Potassium	19.6	2.50	7.50		mg/L	25	01/29/09 02:53 PM
Sodium	834	12.5	37.5		mg/L	125	01/29/09 12:56 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	4.09	0.300	1.00		mg/L	1	01/21/09 04:17 PM
Chloride	1370	30.0	100		mg/L	100	01/22/09 04:12 PM
Sulfate	767	10.0	30.0		mg/L	10	01/22/09 10:28 AM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	189	10.0	20.0		mg/L	1	01/22/09 01:53 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 01:53 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 01:53 PM
Alkalinity, Total (As CaCO ₃)	189	10.0	20.0		mg/L	1	01/22/09 01:53 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	5430	10.0	10.0		µmhos/cm	1	01/22/09 09:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	3340	10.0	10.0		mg/L	1	01/22/09 01:15 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/12/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033.0000.0000
 Lab Order: 0901115

Client Sample ID: W-RS-16
 Lab ID: 0901115-04
 Collection Date: 01/19/09 12:45 PM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	194	2.50	7.50		mg/L	25	01/29/09 02:58 PM
Magnesium	121	2.50	7.50		mg/L	25	01/29/09 02:58 PM
Potassium	18.5	2.50	7.50		mg/L	25	01/29/09 02:58 PM
Sodium	810	12.5	37.5		mg/L	125	01/29/09 01:02 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	4.33	0.300	1.00		mg/L	1	01/21/09 04:32 PM
Chloride	1450	30.0	100		mg/L	100	01/22/09 04:26 PM
Sulfate	803	10.0	30.0		mg/L	10	01/22/09 10:43 AM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	190	10.0	20.0		mg/L	1	01/22/09 01:56 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 01:56 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 01:56 PM
Alkalinity, Total (As CaCO ₃)	190	10.0	20.0		mg/L	1	01/22/09 01:56 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	5580	10.0	10.0		µmhos/cm	1	01/22/09 09:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	3580	10.0	10.0		mg/L	1	01/22/09 01:15 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/12/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033.0000.0000
 Lab Order: 0901115

Client Sample ID: W-RS-17
 Lab ID: 0901115-05
 Collection Date: 01/19/09 01:20 PM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	213	2.50	7.50		mg/L	25	01/29/09 03:04 PM
Magnesium	128	2.50	7.50		mg/L	25	01/29/09 03:04 PM
Potassium	20.7	2.50	7.50		mg/L	25	01/29/09 03:04 PM
Sodium	873	12.5	37.5		mg/L	125	01/29/09 01:07 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	4.39	0.300	1.00		mg/L	1	01/21/09 05:09 PM
Chloride	1440	30.0	100		mg/L	100	01/22/09 04:41 PM
Sulfate	798	10.0	30.0		mg/L	10	01/22/09 10:57 AM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	190	10.0	20.0		mg/L	1	01/22/09 01:59 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 01:59 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 01:59 PM
Alkalinity, Total (As CaCO ₃)	190	10.0	20.0		mg/L	1	01/22/09 01:59 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	5740	10.0	10.0		µmhos/cm	1	01/22/09 09:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	3680	10.0	10.0		mg/L	1	01/22/09 01:15 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/12/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033.0000.0000
 Lab Order: 0901115

Client Sample ID: W-RS-13
 Lab ID: 0901115-06
 Collection Date: 01/19/09 02:25 PM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	182	2.50	7.50		mg/L	25	01/29/09 03:21 PM
Magnesium	123	2.50	7.50		mg/L	25	01/29/09 03:21 PM
Potassium	20.1	2.50	7.50		mg/L	25	01/29/09 03:21 PM
Sodium	810	12.5	37.5		mg/L	125	01/29/09 01:13 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	4.02	0.300	1.00		mg/L	1	01/21/09 05:24 PM
Chloride	1310	30.0	100		mg/L	100	01/22/09 04:56 PM
Sulfate	770	10.0	30.0		mg/L	10	01/22/09 11:12 AM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	153	10.0	20.0		mg/L	1	01/22/09 02:02 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 02:02 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 02:02 PM
Alkalinity, Total (As CaCO ₃)	153	10.0	20.0		mg/L	1	01/22/09 02:02 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	5380	10.0	10.0		µmhos/cm	1	01/22/09 09:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	3080	10.0	10.0		mg/L	1	01/22/09 01:15 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/12/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033.0000.0000
 Lab Order: 0901115

Client Sample ID: W-RS-12
 Lab ID: 0901115-07
 Collection Date: 01/19/09 02:43 PM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	179	2.50	7.50		mg/L	25	01/29/09 03:27 PM
Magnesium	112	2.50	7.50		mg/L	25	01/29/09 03:27 PM
Potassium	17.7	2.50	7.50		mg/L	25	01/29/09 03:27 PM
Sodium	724	12.5	37.5		mg/L	125	01/29/09 01:18 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	3.81	0.300	1.00		mg/L	1	01/21/09 05:39 PM
Chloride	1200	30.0	100		mg/L	100	01/22/09 05:10 PM
Sulfate	727	10.0	30.0		mg/L	10	01/22/09 11:27 AM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	182	10.0	20.0		mg/L	1	01/22/09 02:10 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 02:10 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 02:10 PM
Alkalinity, Total (As CaCO ₃)	182	10.0	20.0		mg/L	1	01/22/09 02:10 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	5020	10.0	10.0		µmhos/cm	1	01/22/09 09:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	3160	10.0	10.0		mg/L	1	01/22/09 01:15 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/12/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033.0000.0000
 Lab Order: 0901115

Client Sample ID: W-SG-4314102-01
 Lab ID: 0901115-08
 Collection Date: 01/19/09 05:04 PM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	667	50.0	150		mg/L	500	01/29/09 11:37 AM
Magnesium	457	50.0	150		mg/L	500	01/29/09 11:37 AM
Potassium	18.9	2.50	7.50		mg/L	25	01/29/09 02:15 PM
Sodium	2650	50.0	150		mg/L	500	01/29/09 11:37 AM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	13.2	0.300	1.00		mg/L	1	01/21/09 05:53 PM
Chloride	4510	30.0	100		mg/L	100	01/22/09 11:58 AM
Sulfate	2760	100	300		mg/L	100	01/22/09 11:58 AM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	600	10.0	20.0		mg/L	1	01/22/09 02:17 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 02:17 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 02:17 PM
Alkalinity, Total (As CaCO ₃)	600	10.0	20.0		mg/L	1	01/22/09 02:17 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	16400	10.0	10.0		µmhos/cm	1	01/22/09 09:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	12000	10.0	10.0		mg/L	1	01/22/09 01:15 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/12/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033.0000.0000
 Lab Order: 0901115

Client Sample ID: W-MW-13
 Lab ID: 0901115-09
 Collection Date: 01/20/09 09:30 AM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	814	50.0	150		mg/L	500	01/29/09 12:34 PM
Magnesium	303	50.0	150		mg/L	500	01/29/09 12:34 PM
Potassium	26.4	2.50	7.50		mg/L	25	01/29/09 03:32 PM
Sodium	3260	50.0	150		mg/L	500	01/29/09 12:34 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	20.3	0.300	1.00		mg/L	1	01/21/09 06:08 PM
Chloride	4810	300	1000		mg/L	1000	02/02/09 11:21 AM
Sulfate	2180	1000	3000	J	mg/L	1000	02/02/09 11:21 AM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO3)	392	10.0	20.0		mg/L	1	01/22/09 02:22 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	01/22/09 02:22 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	01/22/09 02:22 PM
Alkalinity, Total (As CaCO3)	392	10.0	20.0		mg/L	1	01/22/09 02:22 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	18100	10.0	10.0		µmhos/cm	1	01/22/09 09:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	12700	10.0	10.0		mg/L	1	01/22/09 01:15 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/12/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033.0000.0000
 Lab Order: 0901115

Client Sample ID: W-MW-9
 Lab ID: 0901115-10
 Collection Date: 01/20/09 10:22 AM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	80.4	5.00	15.0		mg/L	50	01/29/09 01:46 PM
Magnesium	38.1	5.00	15.0		mg/L	50	01/29/09 01:46 PM
Potassium	7.14	0.100	0.300		mg/L	1	01/26/09 08:53 PM
Sodium	389	5.00	15.0		mg/L	50	01/29/09 01:46 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	0.796	0.300	1.00	J	mg/L	1	01/21/09 06:23 PM
Chloride	157	3.00	10.0		mg/L	10	02/02/09 10:51 AM
Sulfate	278	10.0	30.0		mg/L	10	02/02/09 10:51 AM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	623	10.0	20.0		mg/L	1	01/22/09 02:28 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 02:28 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 02:28 PM
Alkalinity, Total (As CaCO ₃)	623	10.0	20.0		mg/L	1	01/22/09 02:28 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	2070	10.0	10.0		µmhos/cm	1	01/22/09 09:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	1400	10.0	10.0		mg/L	1	01/23/09 03:00 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/12/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033.0000.0000
 Lab Order: 0901115

Client Sample ID: W-MW-14
 Lab ID: 0901115-11
 Collection Date: 01/20/09 12:11 PM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	576	10.0	30.0		mg/L	100	01/29/09 03:38 PM
Magnesium	315	10.0	30.0		mg/L	100	01/29/09 03:38 PM
Potassium	90.8	10.0	30.0		mg/L	100	01/29/09 03:38 PM
Sodium	5960	100	300		mg/L	1000	01/29/09 12:07 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	11.1	0.300	1.00		mg/L	1	01/21/09 07:07 PM
Chloride	5240	300	1000		mg/L	1000	02/02/09 11:06 AM
Sulfate	6540	1000	3000		mg/L	1000	02/02/09 11:06 AM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	465	10.0	20.0		mg/L	1	01/22/09 02:34 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 02:34 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 02:34 PM
Alkalinity, Total (As CaCO ₃)	465	10.0	20.0		mg/L	1	01/22/09 02:34 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	26800	20.0	20.0		µmhos/cm	2	01/22/09 09:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	19300	10.0	10.0		mg/L	1	01/23/09 03:00 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/12/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033.0000.0000
 Lab Order: 0901115

Client Sample ID: W-MW-8
 Lab ID: 0901115-12
 Collection Date: 01/20/09 01:10 PM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	501	10.0	30.0		mg/L	100	01/29/09 03:43 PM
Magnesium	195	10.0	30.0		mg/L	100	01/29/09 03:43 PM
Potassium	82.3	10.0	30.0		mg/L	100	01/29/09 03:43 PM
Sodium	5050	100	300		mg/L	1000	01/29/09 12:12 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	10.3	0.300	1.00		mg/L	1	01/21/09 07:21 PM
Chloride	5050	30.0	100		mg/L	100	01/22/09 01:42 PM
Sulfate	5630	100	300		mg/L	100	01/22/09 01:42 PM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	423	10.0	20.0		mg/L	1	01/22/09 02:40 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 02:40 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 02:40 PM
Alkalinity, Total (As CaCO ₃)	423	10.0	20.0		mg/L	1	01/22/09 02:40 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	24900	20.0	20.0		µmhos/cm	2	01/22/09 09:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	17800	10.0	10.0		mg/L	1	01/23/09 03:00 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/12/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033.0000.0000
 Lab Order: 0901115

Client Sample ID: W-MW-7
 Lab ID: 0901115-13
 Collection Date: 01/20/09 01:48 PM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	128	2.50	7.50		mg/L	25	01/29/09 03:49 PM
Magnesium	32.4	2.50	7.50		mg/L	25	01/29/09 03:49 PM
Potassium	13.6	2.50	7.50		mg/L	25	01/29/09 03:49 PM
Sodium	346	5.00	15.0		mg/L	50	01/29/09 01:51 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	0.652	0.300	1.00	J	mg/L	1	01/21/09 08:05 PM
Chloride	202	3.00	10.0		mg/L	10	01/22/09 01:57 PM
Sulfate	575	10.0	30.0		mg/L	10	01/22/09 01:57 PM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	290	10.0	20.0		mg/L	1	01/22/09 02:44 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 02:44 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 02:44 PM
Alkalinity, Total (As CaCO ₃)	290	10.0	20.0		mg/L	1	01/22/09 02:44 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	2150	10.0	10.0		µmhos/cm	1	01/22/09 09:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	1460	10.0	10.0		mg/L	1	01/23/09 03:00 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/12/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033.0000.0000
 Lab Order: 0901115

Client Sample ID: W-SP-01
 Lab ID: 0901115-14
 Collection Date: 01/20/09 02:44 PM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	124	5.00	15.0		mg/L	50	01/29/09 01:57 PM
Magnesium	82.8	5.00	15.0		mg/L	50	01/29/09 01:57 PM
Potassium	23.2	5.00	15.0		mg/L	50	01/29/09 01:57 PM
Sodium	361	5.00	15.0		mg/L	50	01/29/09 01:57 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	1.31	0.300	1.00		mg/L	1	01/21/09 08:49 PM
Chloride	462	3.00	10.0		mg/L	10	01/22/09 02:58 PM
Sulfate	443	10.0	30.0		mg/L	10	01/22/09 02:58 PM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	350	10.0	20.0		mg/L	1	01/22/09 02:49 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 02:49 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 02:49 PM
Alkalinity, Total (As CaCO ₃)	350	10.0	20.0		mg/L	1	01/22/09 02:49 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	2520	10.0	10.0		µmhos/cm	1	01/22/09 09:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	1630	10.0	10.0		mg/L	1	01/23/09 03:00 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/12/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033.0000.0000
 Lab Order: 0901115

Client Sample ID: W-MW-16
 Lab ID: 0901115-15
 Collection Date: 01/20/09 03:27 PM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	286	10.0	30.0		mg/L	100	01/29/09 01:24 PM
Magnesium	183	10.0	30.0		mg/L	100	01/29/09 01:24 PM
Potassium	35.0	10.0	30.0		mg/L	100	01/29/09 01:24 PM
Sodium	807	10.0	30.0		mg/L	100	01/29/09 01:24 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	4.95	0.300	1.00		mg/L	1	01/21/09 09:04 PM
Chloride	1390	30.0	100		mg/L	100	01/22/09 06:09 PM
Sulfate	893	10.0	30.0		mg/L	10	01/22/09 03:13 PM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	286	10.0	20.0		mg/L	1	01/22/09 02:53 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 02:53 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 02:53 PM
Alkalinity, Total (As CaCO ₃)	286	10.0	20.0		mg/L	1	01/22/09 02:53 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	5300	10.0	10.0		µmhos/cm	1	01/22/09 09:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	3610	10.0	10.0		mg/L	1	01/23/09 03:00 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

DHL Analytical

Date: 02/12/09

CLIENT: TRC Environmental Corp.
 Project: RRC Wendkirk BMP
 Project No: 165033.0000.0000
 Lab Order: 0901115

Client Sample ID: W-MW-4
 Lab ID: 0901115-16
 Collection Date: 01/20/09 03:20 PM
 Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: CZ
Calcium	743	50.0	150		mg/L	500	01/29/09 12:40 PM
Magnesium	395	50.0	150		mg/L	500	01/29/09 12:40 PM
Potassium	51.6	2.50	7.50		mg/L	25	01/29/09 03:54 PM
Sodium	2310	50.0	150		mg/L	500	01/29/09 12:40 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	8.33	0.300	1.00		mg/L	1	01/21/09 09:19 PM
Chloride	4220	30.0	100		mg/L	100	01/22/09 03:28 PM
Sulfate	1830	100	300		mg/L	100	01/22/09 03:28 PM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO ₃)	458	10.0	20.0		mg/L	1	01/22/09 03:06 PM
Alkalinity, Carbonate (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 03:06 PM
Alkalinity, Hydroxide (As CaCO ₃)	ND	10.0	20.0		mg/L	1	01/22/09 03:06 PM
Alkalinity, Total (As CaCO ₃)	458	10.0	20.0		mg/L	1	01/22/09 03:06 PM
Specific Conductance		M2510 B					Analyst: AAD
Specific Conductance	14500	10.0	10.0		µmhos/cm	1	01/22/09 09:30 AM
Total Dissolved Solids		M2540C					Analyst: AAD
Total Dissolved Solids (Residue, Filterable)	10100	10.0	10.0		mg/L	1	01/23/09 03:00 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

CLIENT: TRC Environmental Corp.
 Work Order: 0901115
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090129A

Sample ID:	MB-33129	Batch ID:	33129	TestNo:	SW6020	Units:	mg/L				
SampType:	MBLK	Run ID:	ICP-MS2_090129A	Analysis Date:	01/29/09 11:21 AM	Prep Date:	01/23/09				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Calcium	ND	0.300									
Magnesium	ND	0.300									
Potassium	ND	0.300									
Sodium	ND	0.300									

Sample ID:	LCS-33129	Batch ID:	33129	TestNo:	SW6020	Units:	mg/L				
SampType:	LCS	Run ID:	ICP-MS2_090129A	Analysis Date:	01/29/09 11:27 AM	Prep Date:	01/23/09				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Calcium	4.80	0.300	5.00	0	96.1	80	120				
Magnesium	4.89	0.300	5.00	0	97.7	80	120				
Potassium	4.94	0.300	5.00	0	98.8	80	120				
Sodium	4.99	0.300	5.00	0	99.7	80	120				

Sample ID:	LCSD-33129	Batch ID:	33129	TestNo:	SW6020	Units:	mg/L				
SampType:	LCSD	Run ID:	ICP-MS2_090129A	Analysis Date:	01/29/09 11:32 AM	Prep Date:	01/23/09				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Calcium	4.81	0.300	5.00	0	96.2	80	120	0.0832	15		
Magnesium	4.89	0.300	5.00	0	97.8	80	120	0.0818	15		
Potassium	4.96	0.300	5.00	0	99.2	80	120	0.384	15		
Sodium	4.97	0.300	5.00	0	99.4	80	120	0.301	15		

Sample ID:	0901115-08A SD	Batch ID:	33129	TestNo:	SW6020	Units:	mg/L				
SampType:	SD	Run ID:	ICP-MS2_090129A	Analysis Date:	01/29/09 11:43 AM	Prep Date:	01/23/09				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Calcium	591	750	0	667				12.1	10	R	
Magnesium	449	750	0	457				1.80	10		
Sodium	2530	750	0	2650				4.64	10		

Sample ID:	0901115-08A PDS	Batch ID:	33129	TestNo:	SW6020	Units:	mg/L				
SampType:	PDS	Run ID:	ICP-MS2_090129A	Analysis Date:	01/29/09 11:50 AM	Prep Date:	01/23/09				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Calcium	3190	150	2500	667	101	75	125				
Magnesium	2920	150	2500	457	98.5	75	125				
Sodium	5080	150	2500	2650	97.1	75	125				

Sample ID:	0901115-08A MS	Batch ID:	33129	TestNo:	SW6020	Units:	mg/L				
SampType:	MS	Run ID:	ICP-MS2_090129A	Analysis Date:	01/29/09 11:56 AM	Prep Date:	01/23/09				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Calcium	656	150	5.00	667	-210	80	120			S	
Magnesium	451	150	5.00	457	-134	80	120			S	
Sodium	2600	150	5.00	2650	-1010	80	120			S	

Sample ID:	0901115-08A MSD	Batch ID:	33129	TestNo:	SW6020	Units:	mg/L				
SampType:	MSD	Run ID:	ICP-MS2_090129A	Analysis Date:	01/29/09 12:01 PM	Prep Date:	01/23/09				

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901115
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090129A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	666	150	5.00	667	-30.0	80	120	1.36	15	S
Magnesium	454	150	5.00	457	-72.0	80	120	0.685	15	S
Sodium	2600	150	5.00	2650	-920	80	120	0.173	15	S

Sample ID:	0901115-08A SD	Batch ID:	33129	TestNo:	SW6020	Units:	mg/L			
SampType:	SD	Run ID:	ICP-MS2_090129A	Analysis Date:	01/29/09 02:20 PM	Prep Date:	01/23/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Potassium	17.6	37.5	0	18.9				6.93	10	

Sample ID:	0901115-08A PDS	Batch ID:	33129	TestNo:	SW6020	Units:	mg/L			
SampType:	PDS	Run ID:	ICP-MS2_090129A	Analysis Date:	01/29/09 02:26 PM	Prep Date:	01/23/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Potassium	143	7.50	125	18.9	99.7	75	125			

Sample ID:	0901115-08A MS	Batch ID:	33129	TestNo:	SW6020	Units:	mg/L			
SampType:	MS	Run ID:	ICP-MS2_090129A	Analysis Date:	01/29/09 02:31 PM	Prep Date:	01/23/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Potassium	23.6	7.50	5.00	18.9	93.8	80	120			

Sample ID:	0901115-08A MSD	Batch ID:	33129	TestNo:	SW6020	Units:	mg/L			
SampType:	MSD	Run ID:	ICP-MS2_090129A	Analysis Date:	01/29/09 02:37 PM	Prep Date:	01/23/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Potassium	23.4	7.50	5.00	18.9	90.7	80	120	0.660	15	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901115
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090129A

Sample ID:	ICV1-090129	Batch ID:	R41599	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS2_090129A	Analysis Date:	01/29/09 11:04 AM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	2.45	0.300	2.50	0	98.0	90	110			
Magnesium	2.56	0.300	2.50	0	102	90	110			
Potassium	2.63	0.300	2.50	0	105	90	110			
Sodium	2.53	0.300	2.50	0	101	90	110			

Sample ID:	CCV1-090129	Batch ID:	R41599	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS2_090129A	Analysis Date:	01/29/09 12:18 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	5.04	0.300	5.00	0	101	90	110			
Magnesium	5.14	0.300	5.00	0	103	90	110			
Potassium	5.20	0.300	5.00	0	104	90	110			
Sodium	5.22	0.300	5.00	0	104	90	110			

Sample ID:	CCV2-090129	Batch ID:	R41599		TestNo:	SW6020		Units:	mg/L		
SampType:	CCV	Run ID:	ICP-MS2_090129A		Analysis Date:	01/29/09 01:29 PM		Prep Date:			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium		4.96	0.300	5.00	0	99.2	90	110			
Magnesium		5.02	0.300	5.00	0	100	90	110			
Potassium		5.18	0.300	5.00	0	104	90	110			
Sodium		5.06	0.300	5.00	0	101	90	110			

Sample ID:	CCV3-090129	Batch ID:	R41599	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS2_090129A	Analysis Date:	01/29/09 02:03 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.92	0.300	5.00	0	98.5	90	110			
Magnesium	4.92	0.300	5.00	0	98.4	90	110			
Potassium	5.11	0.300	5.00	0	102	90	110			
Sodium	4.99	0.300	5.00	0	99.8	90	110			

Sample ID:	CCV4-090129	Batch ID:	R41599	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS2_090129A	Analysis Date:	01/29/09 03:09 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.87	0.300	5.00	0	97.4	90	110			
Magnesium	4.95	0.300	5.00	0	99.0	90	110			
Potassium	5.10	0.300	5.00	0	102	90	110			

Sample ID:	CCV5-090129	Batch ID:	R41599	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS2_090129A	Analysis Date:	01/29/09 04:00 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.86	0.300	5.00	0	97.1	90	110			
Magnesium	4.91	0.300	5.00	0	98.2	90	110			
Potassium	5.08	0.300	5.00	0	102	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0901115
Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_090126A

Sample ID:	ICV1-090126	Batch ID:	R41568	TestNo:	SW6020	Units:	mg/L				
SampType:	ICV	Run ID:	ICP-MS3_090126A	Analysis Date:	01/26/09 03:07 PM	Prep Date:					
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Potassium		2.56	0.300	2.50	0	102	90	110			
Sample ID:	CCV5-090126	Batch ID:	R41568	TestNo:	SW6020	Units:	mg/L				
SampType:	CCV	Run ID:	ICP-MS3_090126A	Analysis Date:	01/26/09 08:08 PM	Prep Date:					
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Potassium		5.01	0.300	5.00	0	100	90	110			
Sample ID:	CCV6-091026	Batch ID:	R41568	TestNo:	SW6020	Units:	mg/L				
SampType:	CCV	Run ID:	ICP-MS3_090126A	Analysis Date:	01/26/09 09:34 PM	Prep Date:					
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Potassium		5.16	0.300	5.00	0	103	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901115
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090121A

Sample ID:	LCS-33097	Batch ID:	33097		TestNo:	E300			Units:	mg/L	
SampType:	LCS	Run ID:	IC2_090121A		Analysis Date:	01/21/09 11:57 AM			Prep Date:	01/21/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		18.7	1.00	20.00	0	93.4	90	110			
Sample ID:	MB-33097	Batch ID:	33097		TestNo:	E300			Units:	mg/L	
SampType:	MBLK	Run ID:	IC2_090121A		Analysis Date:	01/21/09 12:26 PM			Prep Date:	01/21/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		ND	1.00								
Sample ID:	LCSD-33097	Batch ID:	33097		TestNo:	E300			Units:	mg/L	
SampType:	LCSD	Run ID:	IC2_090121A		Analysis Date:	01/21/09 12:42 PM			Prep Date:	01/21/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		18.5	1.00	20.00	0	92.4	90	110	1.02	20	
Sample ID:	0901115-10B MS	Batch ID:	33097		TestNo:	E300			Units:	mg/L	
SampType:	MS	Run ID:	IC2_090121A		Analysis Date:	01/21/09 06:37 PM			Prep Date:	01/21/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		18.8	1.00	20.00	0.4700	91.7	90	110			
Sample ID:	0901115-10B MSD	Batch ID:	33097		TestNo:	E300			Units:	mg/L	
SampType:	MSD	Run ID:	IC2_090121A		Analysis Date:	01/21/09 06:52 PM			Prep Date:	01/21/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		18.8	1.00	20.00	0.4700	91.9	90	110	0.200	20	
Sample ID:	CCV2-090121	Batch ID:	33097		TestNo:	E300			Units:	mg/L	
SampType:	CCV	Run ID:	IC2_090121A		Analysis Date:	01/21/09 07:51 PM			Prep Date:	01/21/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		18.8	1.00	20.00	0	94.0	90	110			
Sample ID:	0901115-13B MS	Batch ID:	33097		TestNo:	E300			Units:	mg/L	
SampType:	MS	Run ID:	IC2_090121A		Analysis Date:	01/21/09 08:20 PM			Prep Date:	01/21/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		18.5	1.00	20.00	0.3900	90.6	90	110			
Sample ID:	0901115-13B MSD	Batch ID:	33097		TestNo:	E300			Units:	mg/L	
SampType:	MSD	Run ID:	IC2_090121A		Analysis Date:	01/21/09 08:35 PM			Prep Date:	01/21/09	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		18.6	1.00	20.00	0.3900	91.1	90	110	0.525	20	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901115
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090121A

Sample ID:	ICV-090122	Batch ID:	R41492	TestNo:	E300	Units:	mg/L				
SampType:	ICV	Run ID:	IC2_090121A	Analysis Date:	01/21/09 11:27 AM	Prep Date:	01/21/09				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		48.9	1.00	50.00	0	97.9	90	110			
Sample ID:	CCV1-090121	Batch ID:	R41492	TestNo:	E300	Units:	mg/L				
SampType:	CCV	Run ID:	IC2_090121A	Analysis Date:	01/21/09 04:46 PM	Prep Date:	01/21/09				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		18.7	1.00	20.00	0	93.7	90	110			
Sample ID:	CCV3-090121	Batch ID:	R41492	TestNo:	E300	Units:	mg/L				
SampType:	CCV	Run ID:	IC2_090121A	Analysis Date:	01/21/09 09:48 PM	Prep Date:	01/21/09				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		18.7	1.00	20.00	0	93.6	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901115
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090122A

Sample ID:	LCS-33097	Batch ID:	33097	TestNo:	E300	Units:	mg/L			
SampType:	LCS	Run ID:	IC2_090122A	Analysis Date:	01/22/09 09:15 AM	Prep Date:	01/21/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	9.29	1.00	10.00	0	92.9	90	110			
Sulfate	28.5	3.00	30.00	0	94.9	90	110			
Sample ID:	LCSD-33097	Batch ID:	33097	TestNo:	E300	Units:	mg/L			
SampType:	LCSD	Run ID:	IC2_090122A	Analysis Date:	01/22/09 09:29 AM	Prep Date:	01/21/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	9.24	1.00	10.00	0	92.4	90	110	0.552	20	
Sulfate	28.4	3.00	30.00	0	94.7	90	110	0.204	20	
Sample ID:	MB-33097	Batch ID:	33097	TestNo:	E300	Units:	mg/L			
SampType:	MBLK	Run ID:	IC2_090122A	Analysis Date:	01/22/09 09:44 AM	Prep Date:	01/21/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	ND	1.00								
Sulfate	ND	3.00								
Sample ID:	0901115-10B MS	Batch ID:	33097	TestNo:	E300	Units:	mg/L			
SampType:	MS	Run ID:	IC2_090122A	Analysis Date:	01/22/09 12:58 PM	Prep Date:	01/21/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	192	10.0	100.0	97.82	94.1	90	110			
Sulfate	457	30.0	300.0	170.5	95.4	90	110			
Sample ID:	0901115-10B MSD	Batch ID:	33097	TestNo:	E300	Units:	mg/L			
SampType:	MSD	Run ID:	IC2_090122A	Analysis Date:	01/22/09 01:13 PM	Prep Date:	01/21/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	192	10.0	100.0	97.82	94.1	90	110	0.0287	20	
Sulfate	456	30.0	300.0	170.5	95.1	90	110	0.204	20	
Sample ID:	0901115-13B MS	Batch ID:	33097	TestNo:	E300	Units:	mg/L			
SampType:	MS	Run ID:	IC2_090122A	Analysis Date:	01/22/09 02:11 PM	Prep Date:	01/21/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	219	10.0	100.0	121.1	97.5	90	110			
Sulfate	642	30.0	300.0	345.0	98.9	90	110			
Sample ID:	0901115-13B MSD	Batch ID:	33097	TestNo:	E300	Units:	mg/L			
SampType:	MSD	Run ID:	IC2_090122A	Analysis Date:	01/22/09 02:26 PM	Prep Date:	01/21/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	219	10.0	100.0	121.1	98.3	90	110	0.329	20	
Sulfate	641	30.0	300.0	345.0	98.8	90	110	0.0637	20	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901115
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090122A

Sample ID:	ICV-090122	Batch ID:	R41503	TestNo:	E300	Units:	mg/L			
SampType:	ICV	Run ID:	IC2_090122A	Analysis Date:	01/22/09 08:54 AM	Prep Date:	01/22/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	24.5	1.00	25.00	0	97.8	90	110			
Sulfate	74.0	3.00	75.00	0	98.7	90	110			

Sample ID:	CCV1-090122	Batch ID:	R41503	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_090122A	Analysis Date:	01/22/09 11:41 AM	Prep Date:	01/22/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	9.13	1.00	10.00	0	91.3	90	110			
Sulfate	27.9	3.00	30.00	0	92.9	90	110			

Sample ID:	CCV2-090122	Batch ID:	R41503	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_090122A	Analysis Date:	01/22/09 02:41 PM	Prep Date:	01/22/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	9.20	1.00	10.00	0	92.0	90	110			
Sulfate	28.3	3.00	30.00	0	94.4	90	110			

Sample ID:	CCV3-090122	Batch ID:	R41503	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_090122A	Analysis Date:	01/22/09 05:25 PM	Prep Date:	01/21/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	9.25	1.00	10.00	0	92.5	90	110			
Sulfate	28.5	3.00	30.00	0	95.1	90	110			

Sample ID:	CCV4-090122	Batch ID:	R41503	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_090122A	Analysis Date:	01/22/09 06:24 PM	Prep Date:	01/22/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	9.27	1.00	10.00	0	92.7	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0901115
Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090202A

Sample ID:	ICV-090202	Batch ID:	R41641	TestNo:	E300	Units:	mg/L			
SampType:	ICV	Run ID:	IC2_090202A	Analysis Date:	02/02/09 09:11 AM	Prep Date:	02/02/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	50.1	1.00	50.00	0	100	90	110			
Chloride	24.9	1.00	25.00	0	99.5	90	110			
Sulfate	75.5	3.00	75.00	0	101	90	110			

Sample ID:	CCV1-090202	Batch ID:	R41641	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_090202A	Analysis Date:	02/02/09 12:33 PM	Prep Date:	02/02/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	19.3	1.00	20.00	0	96.7	90	110			
Chloride	9.49	1.00	10.00	0	94.9	90	110			
Sulfate	29.0	3.00	30.00	0	96.7	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901115
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090122A

Sample ID:	MB-33121	Batch ID:	33121	TestNo:	M2320 B	Units:	mg/L			
SampType:	MBLK	Run ID:	TITRATOR_090122A	Analysis Date:	01/22/09 01:31 PM	Prep Date:	01/22/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	20.0								
Alkalinity, Carbonate (As CaCO3)	ND	20.0								
Alkalinity, Hydroxide (As CaCO3)	ND	20.0								
Alkalinity, Total (As CaCO3)	ND	20.0								

Sample ID:	LCS-33121	Batch ID:	33121	TestNo:	M2320 B	Units:	mg/L			
SampType:	LCS	Run ID:	TITRATOR_090122A	Analysis Date:	01/22/09 01:35 PM	Prep Date:	01/22/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	54.9	20.0	50.00	0	110	74	129			

Sample ID:	0901079-01H DUP	Batch ID:	33121	TestNo:	M2320 B	Units:	mg/L			
SampType:	DUP	Run ID:	TITRATOR_090122A	Analysis Date:	01/22/09 01:46 PM	Prep Date:	01/22/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	310	20.0	0	311.9				0.708	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	310	20.0	0	311.9				0.708	20	

Sample ID:	0901115-16C DUP	Batch ID:	33121	TestNo:	M2320 B	Units:	mg/L			
SampType:	DUP	Run ID:	TITRATOR_090122A	Analysis Date:	01/22/09 03:12 PM	Prep Date:	01/22/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	456	20.0	0	457.8				0.306	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	456	20.0	0	457.8				0.306	20	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901115
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_090122A

Sample ID:	ICV-090122	Batch ID:	R41508	TestNo:	M2320 B	Units:	mg/L			
SampType:	ICV	Run ID:	TITRATOR_090122A	Analysis Date:	01/22/09 01:29 PM	Prep Date:	01/22/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	8.16	20.0	0							
Alkalinity, Carbonate (As CaCO3)	93.6	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	102	20.0	100.0	0	102	98	102			

Sample ID:	CCV1-090122	Batch ID:	R41508	TestNo:	M2320 B	Units:	mg/L			
SampType:	CCV	Run ID:	TITRATOR_090122A	Analysis Date:	01/22/09 02:07 PM	Prep Date:	01/22/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	10.2	20.0	0							
Alkalinity, Carbonate (As CaCO3)	92.5	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	103	20.0	100.0	0	103	90	110			

Sample ID:	CCV2-090122	Batch ID:	R41508	TestNo:	M2320 B	Units:	mg/L			
SampType:	CCV	Run ID:	TITRATOR_090122A	Analysis Date:	01/22/09 02:59 PM	Prep Date:	01/22/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	15.3	20.0	0							
Alkalinity, Carbonate (As CaCO3)	87.8	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	103	20.0	100.0	0	103	90	110			

Sample ID:	CCV3-090122	Batch ID:	R41508	TestNo:	M2320 B	Units:	mg/L			
SampType:	CCV	Run ID:	TITRATOR_090122A	Analysis Date:	01/22/09 03:17 PM	Prep Date:	01/22/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	10.5	20.0	0							
Alkalinity, Carbonate (As CaCO3)	91.4	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	102	20.0	100.0	0	102	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901115
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090122A

Sample ID: MB-33107	Batch ID: 33107	TestNo: M2510 B	Units: µmhos/cm
SampType: MBLK	Run ID: WC_090122A	Analysis Date: 01/22/09 09:30 AM	Prep Date: 01/22/09
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Specific Conductance	ND	10.0	

Sample ID: LCS-33107	Batch ID: 33107	TestNo: M2510 B	Units: µmhos/cm
SampType: LCS	Run ID: WC_090122A	Analysis Date: 01/22/09 09:30 AM	Prep Date: 01/22/09
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Specific Conductance	1370	10.0	1413 0 96.9 95 105

Sample ID: 0901115-08C-DUP	Batch ID: 33107	TestNo: M2510 B	Units: µmhos/cm
SampType: DUP	Run ID: WC_090122A	Analysis Date: 01/22/09 09:30 AM	Prep Date: 01/22/09
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Specific Conductance	16600	10.0	0 16410 1.09 2

Sample ID: 0901115-15C-DUP	Batch ID: 33107	TestNo: M2510 B	Units: µmhos/cm
SampType: DUP	Run ID: WC_090122A	Analysis Date: 01/22/09 09:30 AM	Prep Date: 01/22/09
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Specific Conductance	5270	10.0	0 5300 0.568 2

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901115
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090122A

Sample ID:	ICV-090122	Batch ID:	CONDW-01/22/09		TestNo:	M2510 B		Units:	µmhos/cm		
SampType:	ICV	Run ID:	WC_090122A		Analysis Date:	01/22/09 09:30 AM		Prep Date:	01/22/09		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		12800	10.0	12880	0	99.5	95	105			
Sample ID:	CCV1-090122	Batch ID:	CONDW-01/22/09		TestNo:	M2510 B		Units:	µmhos/cm		
SampType:	CCV	Run ID:	WC_090122A		Analysis Date:	01/22/09 09:30 AM		Prep Date:	01/22/09		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		12700	10.0	12880	0	98.4	95	105			
Sample ID:	CCV2-090122	Batch ID:	CONDW-01/22/09		TestNo:	M2510 B		Units:	µmhos/cm		
SampType:	CCV	Run ID:	WC_090122A		Analysis Date:	01/22/09 09:30 AM		Prep Date:	01/22/09		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		12500	10.0	12880	0	97.4	95	105			
Sample ID:	CCV3-090122	Batch ID:	CONDW-01/22/09		TestNo:	M2510 B		Units:	µmhos/cm		
SampType:	CCV	Run ID:	WC_090122A		Analysis Date:	01/22/09 09:30 AM		Prep Date:	01/22/09		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		12500	10.0	12880	0	96.7	95	105			
Sample ID:	CCV4-090122	Batch ID:	CONDW-01/22/09		TestNo:	M2510 B		Units:	µmhos/cm		
SampType:	CCV	Run ID:	WC_090122A		Analysis Date:	01/22/09 09:30 AM		Prep Date:	01/22/09		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Specific Conductance		12300	10.0	12880	0	95.6	95	105			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
Work Order: 0901115
Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090122B

Sample ID:	MB-33116	Batch ID:	33116	TestNo:	M2540C	Units:	mg/L			
SampType:	MBLK	Run ID:	WC_090122B	Analysis Date:	01/22/09 01:15 PM	Prep Date:	01/22/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi	ND	10.0								

Sample ID:	LCS-33116	Batch ID:	33116	TestNo:	M2540C	Units:	mg/L			
SampType:	LCS	Run ID:	WC_090122B	Analysis Date:	01/22/09 01:15 PM	Prep Date:	01/22/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi	787	10.0	745.6	0	106	90	113			

Sample ID:	0901115-09C-DUP	Batch ID:	33116	TestNo:	M2540C	Units:	mg/L			
SampType:	DUP	Run ID:	WC_090122B	Analysis Date:	01/22/09 01:15 PM	Prep Date:	01/22/09			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi	12300	10.0	0	12690				3.49	5	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: TRC Environmental Corp.
 Work Order: 0901115
 Project: RRC Wendkirk BMP

ANALYTICAL QC SUMMARY REPORT

RunID: WC_090123B

Sample ID:	MB-33143	Batch ID:	33143	TestNo:	M2540C	Units:	mg/L			
SampType:	MBLK	Run ID:	WC_090123B	Analysis Date:	01/23/09 03:00 AM	Prep Date:	01/23/09			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Fi		ND	10.0							
Sample ID:	LCS-33143	Batch ID:	33143	TestNo:	M2540C	Units:	mg/L			
SampType:	LCS	Run ID:	WC_090123B	Analysis Date:	01/23/09 03:00 AM	Prep Date:	01/23/09			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Fi		736	10.0	745.6	0	98.7	90	113		
Sample ID:	0901115-16C-DUP	Batch ID:	33143	TestNo:	M2540C	Units:	mg/L			
SampType:	DUP	Run ID:	WC_090123B	Analysis Date:	01/23/09 03:00 AM	Prep Date:	01/23/09			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Fi		10100	10.0	0	10060				0.149	5

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

ATTACHMENT 3
PRECIPIATION DATA

	JAN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1977	0.61	0.26	0.99	5.10	2.14	0.47	0.52	0.38	0.27	1.38	0.68	0.15	12.95	
1978	0.61	1.17	0.41	0.73	1.83	2.81	0.41	2.93	1.35	0.42	1.75	0.25	14.67	
1979	0.19	1.83	2.25	1.90	0.67	2.15	1.30	2.18	0.06	0.93	T	2.70	16.16	
1980	0.84	0.79	0.71	0.52	4.72	3.14	0.33	3.30	11.00	0.01	2.53	2.20	30.09	
1981	1.17	0.68	2.81	3.51	4.70	1.97	2.68	1.23	2.72	8.86	T	0.02	30.17	
1982	1.06	1.53	0.40	0.83	4.17	6.01	0.35	0.46	0.09	1.26	1.11	0.91	18.18	
1983	2.06	0.42	1.20	0.81	0.52	3.72	1.18	0.03	T	3.47	1.78	0.07	15.26	
1984	2.38	0.54	0.49	0.23	0.54	2.82	0.60	0.26	2.99	3.74	1.09	3.48	19.14	
1985	0.67	0.38	1.69	0.42	4.78	3.55	1.13	0.24	2.84	5.64	0.48	0.01	21.83	
1986	0.30	0.65	0.52	0.07	7.28	3.30	0.74	2.50	7.53	5.72	1.83	2.48	32.93	
1987	0.65	4.45	1.77	1.33	11.24	3.28	0.22	1.91	3.96	0.34	0.80	2.05	31.90	
1988	0.01	0.42	0.69	1.36	3.31	2.14	1.22	0.92	3.20	T	0.00	0.79	14.06	
1989	0.68	3.01	1.95	1.04	1.06	2.83	0.35	2.78	2.82	0.41	0.43	0.23	17.64	
1990	1.60	1.65	0.85	4.14	4.02	0.05	4.09	1.05	6.23	2.40	2.51	0.21	27.20	
1991	2.08	0.26	0.61	0.48	1.15	4.22	1.80	1.36	1.36	4.77	3.34	0.24	24.29	
1992	1.90	3.79	1.05	1.00	1.49	4.73	1.98	1.78	0.27	1.33	0.95	0.75	21.03	
1993	0.94	0.81	0.28	1.46	3.87	0.94	0.82	2.64	1.99	1.07	0.05	0.76	15.63	
1994	1.69	0.34	0.04	0.97	3.29	1.04	0.25	1.30	3.04	4.27	1.96	1.21	19.40	
1995	0.31	2.81	1.01	2.67	4.39	1.37	0.17	2.41	2.27	1.86	1.68	0.20	21.15	
1996	0.06	0.23	0.28	2.38	2.08	1.81	0.26	7.66	1.92	2.42	3.35	0.05	22.50	
1997	0.37	4.54	2.69	2.50	2.69	2.57	0.74	2.76	1.56	0.82	0.76	1.38	23.38	
1998	0.70	0.53	1.85	T	1.75	0.88	0.46	2.77	0.10	2.39	1.06	0.49	12.98	
1999	0.61	0.01	2.32	1.85	1.55	4.70	0.66	0.03	0.76	0.94	T	0.09	13.52	
2000	0.08	0.23	0.77	0.57	2.21	3.44	0.02	0.00	0.58	3.61	3.08	0.60	15.19	
2001	1.29	2.17	1.26	0.82	2.52	0.26	0.57	3.67	0.89	1.48	3.46	0.14	18.53	
2002	0.32	1.10	1.31	0.33	0.45	0.88	2.02	0.41	1.64	4.06	0.52	1.37	14.41	
2003	0.33	1.57	1.25	0.06	1.07	4.78	0.90	2.52	3.16	3.38	0.74	T	19.76	
2004	1.37	1.72	1.70	1.91	0.86	3.65	2.18	4.32	2.05	5.16	5.18	0.38	30.48	
2005	0.55	2.03	2.81	0.03	4.43	0.98	1.15	4.66	0.02	3.72	0.00	0.02	20.40	
2006	0.16	0.64	1.92	1.34	1.90	0.30	0.87	4.87	2.60	2.21	0.01	0.83	17.65	
2007	1.86	0.55	3.86	2.66	4.74	5.54	1.84	6.55	2.55	0.83	0.89	0.18	32.05	
2008	0.39	0.30	4.64	0.62	1.01	2.19	0.19	3.59	3.99	1.81	0.23	0.04	19.00	
2009	0.06													

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Normal	0.82	1.18	0.99	1.60	3.09	2.52	1.10	2.05	2.95	2.57	1.10	0.94	20.91

* Incomplete Record

First Order Station November 1, 1947

Normals Based on Period 1971-2000

ATTACHMENT 4

ANALYTICAL DATA REVIEW/DATA VALIDATION CHECKLIST



QA Data Evaluation Results RRC – Wendkirk BMP

January 2009 Analytical Data

Background

Water samples were collected on January 19, 20, 21, and 22, 2009. The samples were submitted to DHL Analytical in Round Rock, Texas for analysis. Results for the following methods are reported:

- Bromide, Chloride, and Sulfate by U.S. EPA Method 300.0
- Alkalinity by SM 2320 B
- Specific Conductance by SM 2510 B
- Total Dissolved Solids (TDS) by SM 2540 C
- Calcium, Magnesium, Potassium, and Sodium by SW846 Method 6020

TRC QA staff performed a review of quality control (QC) data associated with the samples to ensure that the reported analytical results are valid, accurate, and sufficient to meet quality objectives. Data were reviewed for compliance with the requirements given in *Investigations and Abatement of Produced Water Impacts and Seeps to Surface Water in the Upper Colorado River Basin Downstream of Spence Reservoir (Segment 1426) Quality Assurance Project Plan* (Railroad Commission of Texas, Oil and Gas Division, Revision 2, March 7, 2008)(the QAPP). Items reviewed during the data validation process included sample integrity, blank analyses, spike recoveries, and duplicate recoveries. Samples reviewed to prepare this evaluation are presented in Table 1.

The following is a discussion of the QC analyses performed with the site samples and any potential data limitations associated with the results of analyses.

Sample Integrity

All samples were adequately preserved and arrived at the laboratory in good condition. All preparatory steps were performed within method-defined holding times. All samples were analyzed within method-defined holding times.

Blank Analyses

Target analytes were not detected in reported method blanks indicating that laboratory contamination did not impact analytical results.

Sodium (0.112 mg/L) and TDS (19.0 mg/L) were detected in the equipment rinsate blank identified as W-EB-1. No data interpretation issues are indicated for these detections since reported concentrations of sodium and TDS in all associated samples are more than ten times the equipment blank concentration.

Spike Recoveries

All reported LCS recoveries fall within QAPP-derived QC limits. These results are indicative adequate laboratory measurement control in the absence of potential matrix interferences at the time of sample analyses.

Sample W-SG-4314102-D1 was analyzed as MS/MSD pairs for calcium, magnesium, sodium, and potassium. Both recoveries of potassium fall within QAPP-specified limits indicating that potential matrix interferences with potassium accuracy are minimal. Recoveries of calcium, magnesium, and sodium are all less than QAPP-specified control limits. No data interpretation issues are indicated since detected concentrations of calcium, magnesium, and sodium in the un-spiked analysis of sample W-SG-4314102-D1 are more than 90 times the spiking concentration used to generate MS/MSD analyses.

Samples W-MW-9, W-MW-7, W-MW-20, and W-MW-3 were analyzed as MS/MSD pairs for bromide, chloride, and sulfate. All recoveries are within QAPP-defined limits and no data interpretation issues are indicated by these results.

Sample W-MW-10 was analyzed as MS/MSD pairs for calcium, magnesium, and sodium. All recoveries are all less than QAPP-specified control limits. No data interpretation issues are indicated since detected concentrations in the un-spiked analysis of sample W-MW-10 are more than 70 times the spiking concentration used to generate MS/MSD analyses.

Duplicate Sample Analyses

All reported RPD values for LCS/LCSD pairs are within laboratory-derived limits indicating that the laboratory achieved adequate precision in the absence of potential matrix interferences at the time of sample analysis.

RPD values associated with MS/MSD analyses are within laboratory-specified limits indicating that the sample matrix has minimal impact, if any, on analytical precision.

Sample W-RS-14-D was collected as a field duplicate of sample W-RS-14. Calculated RPD values for detected analytes in these analyses are presented in Table 2. Adequate precision is exhibited for all detected analytes and data interpretation issues are not indicated.

Sample W-MW-18-D was collected as a field duplicate of sample W-MW-18. Calculated RPD values for detected analytes in these analyses are presented in Table 3. Adequate precision is exhibited for all detected analytes and data interpretation issues are not indicated.

The following samples were analyzed as laboratory duplicates for which all RPD values are within laboratory-specified control limits and no data interpretation issues are indicated:

- W-MW-4, W-MW-06, and W-MW-17 for Alkalinity

- W-SG-4314102-D1, W-MW-16, W-MW-6, and W-MW-12 for Specific Conductance
- W-MW-13, W-MW-4, W-MW-10, and W-OW-1 for TDS

Conclusions

QC data associated with laboratory measurements indicate that data are defensible and that measurement data reliability is within expected limits of sampling and analytical error. No interpretation issues were identified during this evaluation of the analytical data.

Table 1. Evaluated Samples

TRC ID	Collected	Matrix	DHL ID
W-RS-14	1/19/2009	Water	0901115-01
W-RS-14-D	1/19/2009	Water	0901115-02
W-RS-15	1/19/2009	Water	0901115-03
W-RS-16	1/19/2009	Water	0901115-04
W-RS-17	1/19/2009	Water	0901115-05
W-RS-13	1/19/2009	Water	0901115-06
W-RS-12	1/19/2009	Water	0901115-07
W-SG-4314102-D1	1/19/2009	Water	0901115-08
W-MW-13	1/20/2009	Water	0901115-09
W-MW-9	1/20/2009	Water	0901115-10
W-MW-14	1/20/2009	Water	0901115-11
W-MW-8	1/20/2009	Water	0901115-12
W-MW-7	1/20/2009	Water	0901115-13
W-SP-01	1/20/2009	Water	0901115-14
W-MW-16	1/20/2009	Water	0901115-15
W-MW-4	1/20/2009	Water	0901115-16
W-MW-6	1/21/2009	Water	0901133-01
W-MW-3	1/21/2009	Water	0901133-02
W-MW-2	1/21/2009	Water	0901133-03
W-MW-1	1/21/2009	Water	0901133-04
W-MW-15	1/21/2009	Water	0901133-05
W-MW-11	1/21/2009	Water	0901133-06
W-MW-18	1/21/2009	Water	0901133-07
W-MW-18-D	1/21/2009	Water	0901133-08
W-MW-05	1/21/2009	Water	0901133-09
W-MW-10	1/21/2009	Water	0901133-10
W-MW-12	1/21/2009	Water	0901133-11
W-WW-MAYS-02	1/21/2009	Water	0901133-12
W-MW-19	1/22/2009	Water	0901133-13
W-MW-20	1/22/2009	Water	0901133-14
W-OW-1	1/22/2009	Water	0901133-15
W-MW-17	1/22/2009	Water	0901133-16
W-EB-1	1/22/2009	Water	0901133-17

Table 2. Calculated RPD Values for Field Duplicate Analyses of Sample W-RS-14

Analyte	Result	Duplicate Result	Units	RPD	Flag
Calcium	192	187	mg/L	2.6	
Magnesium	125	121	mg/L	3.2	
Potassium	19.9	19.0	mg/L	4.6	
Sodium	834	824	mg/L	1.2	
Bromide	3.92	3.98	mg/L	1.5	
Chloride	1280	1330	mg/L	3.8	
Sulfate	744	753	mg/L	1.2	
Alkalinity	182	183	mg/L	0.55	
Specific Conductance	5230	5360	umhos/cm	2.4	
TDS	3360	3270	mg/L	2.7	

* RPD Greater than expected (i.e., RPD > 20)

Table 3. Calculated RPD Values for Field Duplicate Analyses of Sample W-MW-18

Analyte	Result	Duplicate Result	Units	RPD	Flag
Calcium	1470	1550	mg/L	5.3	
Magnesium	631	658	mg/L	4.2	
Potassium	187	193	mg/L	3.2	
Sodium	14000	14200	mg/L	1.4	
Bromide	43.9	44.0	mg/L	0.23	
Chloride	25700	26500	mg/L	3.1	
Sulfate	3940	4090	mg/L	3.7	
Alkalinity	312	315	mg/L	0.96	
Specific Conductance	79900	79100	umhos/cm	1.0	
TDS	47500	47700	mg/L	0.42	

* RPD Greater than expected (i.e., RPD > 20)