Larson & Associates, Inc.
Environmental Consultants

IR-379

July 22, 2005

Mr. Wayne Price
Environmental Bureau
Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Annual Groundwater Monitoring and Plume Delineation Report, Texaco Exploration and Production Inc., G. L. Erwin Tank Battery, SW/4, SE/4, Section 35, Township 24 South, Range 37 East, Lea County, New Mexico

Dear Mr. Price:

Please find enclosed a copy of the above-referenced report. The report is submitted on behalf of Chevron North America Exploration and Production Company, and presents the results of plume delineation and annual groundwater monitoring conducted by Larson and Associates, Inc. Please call Scott Toner at (281) 561-3653 or myself at (432) 687-0901 if you have questions.

Sincerely,
Larson and Associates, Inc.

Cindy K. Crain, P.G.
Project Manager

cc: Scott Toner - Chevron
Chris Williams – NMOCD District I
James Ornelas -CRA

ANNUAL GROUNDWATER MONITORING and PLUME DELINEATION REPORT G. L. ERWIN "A&B" FEDERAL NCT-2 TANK BATTERY LEA COUNTY, NEW MEXICO

Prepared for:

Chevron North America Exploration and Production Company
15 Smith Road
Midland, Texas

Prepared by:

Larson and Associates, Inc.
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July 21, 2005

Cindy K. Crain

Cindy K. Crain, P.G.

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Annual Groundwater Monitoring Report

G. L. Erwin "A&B" Federal NCT-2 Tank Battery

Lea County, New Mexico

1.0 INTRODUCTION

Chevron North America Exploration and Production Company (Chevron) has retained Larson and Associates, Inc. (LA) to conduct chloride plume delineation, groundwater remediation and monitoring activities at the former location of the G. L. Erwin "A&B" Fedral NCT-2 Tank Battery (Site). The Site is located approximately three (3) miles northeast of Jal, New Mexico, and is situated in the southwest quarter (SW/4) of the southeast quarter (SE/4), Section 35, Township 24 South, Range 37 East, Lea County, New Mexico. Figure 1 presents a Site location and topographic map.

2.0 BACKGROUND

Two monitoring wells (WMW and SWMW) were installed in 1997 by Environmental Spill Control, Inc., and five additional monitoring wells (MW-1 through MW-5) were installed by Highlander Environmental, Corp., in February 1998, in order to investigate soil and groundwater impacts at the Site. Details of the investigations were submitted to the New Mexico Oil Conservation Division (NMOCD) in a Subsurface Environmental Assessment Report dated March 1998.

In that report, Texaco proposed to implement a groundwater recovery program by installing a groundwater recovery well in the area of highest chloride impact, and sending the recovered fluid from this well to the G. L. Erwin Federal NCT-2 "A&B" Tank Battery. Groundwater monitoring, on a quarterly basis, was also proposed, with an annual report to be prepared and submitted yearly to the NMOCD.

The proposed activities were approved by the NMOCD in a letter dated June 19, 1998. In that letter, the NMOCD requested submittal of a work plan to delineate the downgradient extent of chloride impact. On November 18, 1998, a "Work Plan for Plume Delineation and Modification to Proposed Groundwater Monitoring Schedule" was submitted to the NMOCD. In addition to the previously

proposed Recovery Well, the work plan included installation of additional monitoring wells, in order to delineate the chloride plume at the Site. As requested by the NMOCD, the previously submitted groundwater-monitoring schedule was expanded to include the yearly sampling of all monitoring wells for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX). The proposed activities were approved by the NMOCD in a letter dated February 2, 1999.

An Annual Groundwater Monitoring and Plume Delineation Report was submitted to the NMOCD on March 26, 2003, that included details of the installation of three monitoring wells (MW-6, MW-7, and MW-8) and one recovery well (RW-1) by Highlander Environmental, and five monitoring wells (MW-9 through MW-13) by Larson and Associates, Inc. (LA). An Annual Groundwater Monitoring Report and Plume Delineation Report was submitted to the NMOCD on April 26, 2004, that included details of the installation of four (4) monitoring wells by LA (MW-14, MW-15, MW-16 and MW-17), and proposed the installation of one (1) monitoring well, modification of the groundwater monitoring program from quarterly to semi-annual sampling, and deletion of the BTEX analysis from the required laboratory analyses of ground water samples. On October 1, 2004, the NMOCD approved the proposed groundwater monitoring program and BTEX analysis deletion, and directed the installation of an additional three (3) monitoring wells at the Site.

3.0 CURRENT ACTIVITIES

3.1 Monitoring Wells

On November 9 and 10, 2004, three (3) monitoring wells (MW-18, MW-19 and MW-20) were installed at the Site by LA. Scarborough Drilling, Inc., located in Lamesa, Texas, drilled the three (3) wells from 75 to 103 feet below ground surface (bgs), using a truck mounted air rotary drilling rig. The monitoring wells were constructed with 2-inch diameter schedule 40 PVC casing and screen. The well screen, approximately 15 feet in length, was placed in the borings with approximately 3 to 5

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feet extending above the groundwater surface observed during drilling, and approximately 10 to 12 feet of the well screen placed into groundwater. In each well, graded silica sand was placed in the annular space between the boring and screen to approximately two (2) feet above the screen. A layer of bentonite chips, approximately three (3) feet thick, was placed above the sand, and hydrated with potable water. The remainder of the annulus was filled with cement and bentonite grout to approximately 1-foot bgs. The monitoring wells were secured with locking above-grade covers that were anchored in concrete pads measuring approximately 3' x 3' x 1'. Table 1 presents a summary of well drilling and installation details. Appendix A presents the well logs and well construction diagrams. Figure 2 presents the well locations.

3.2 Groundwater Monitoring

3.2.1 Groundwater Assessment

LA completed monitoring at the Site for the period of May 2004 through February 2005. Depth to groundwater measurements were collected from all monitoring wells (MW-1 through MW-17, WMW and SWMW), the recovery well (RW-1) and the water well (WW-1) at the western edge of the Site, on May 5, 2004, August 2, 2004, November 23, 2004 and February 9, 2005. Depth to groundwater measurements were also collected from the new monitoring wells (MW-18, MW-19 and MW-21) during the November 2004 and February 2005 monitoring events. A depth to groundwater measurement of monitoring well MW-10 was inadvertently missed during the February 2005 monitoring event. Depth to groundwater ranged from 60.04 feet (MW-5) to 72.78 feet (MW-12) below top of casing (TOC) on the May 5 event, from 59.97 feet (MW-5) to 72.81 feet (MW-12) below TOC on August 2, 2004, from 59.51 feet (MW-5) to 81.81 feet (MW-20) below TOC on November 23, 2004, and from 59.32 feet (MW-5) to 81.85 feet (MW-20) below TOC on the February 9, 2005 event. Monitoring well MW-11 was consistently dry during each monitoring event, except for February 9, 2005 (75.01 feet below TOC). Monitoring well MW-15 has been dry since

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installation of the well (November 2003), and monitoring well MW-18 has been dry since installation (November 2004). The groundwater gradient was approximately 0.016 feet per foot during the August 2004 monitoring event, and the February 2005 monitoring event. Groundwater flow at the Site has remained consistent, and flows from northwest to southeast. Table 2 provides a summary of depth to groundwater measurements. Figure 3 shows the groundwater gradient on August 2, 2004. Figure 4 shows the groundwater gradient on February 9, 2005.

Groundwater samples were collected on May 5, 6 and 7, 2004, from monitoring wells MW-1 through MW-10, MW-12, MW-13, MW-14, MW-16, MW-17, WMW, SWMW, recovery well RW-1, and water well WW-1. A duplicate sample was collected from monitoring well MW-9 on May 5, from well RW-1 on May 6, and from well MW-5 on May 7, 2004. The groundwater samples were submitted under chain-of-custody control to TraceAnalysis, Inc. (Trace), and analyzed for anions, cations, and total dissolved solids (TDS). Prior to sample collection, the wells were purged of a minimum of three (3) casing volumes of groundwater. The groundwater samples were collected using dedicated disposable PVC bailers. Table 3 presents a summary of the general chemistry analysis. Appendix B presents the laboratory report.

Referring to Table 3, chloride was above the WQCC standard of 250 milligrams per liter (mg/L) in groundwater from all sampled wells, except MW-10 (186 mg/L) and WW-1 (204 mg/L). Fluoride was above the WQCC standard of 1.6 mg/L in groundwater from all wells except MW-4, MW-5, MW-10, MW-12, MW-14, MW-16, WMW, SWMW and RW-1. The reported TDS concentrations in groundwater exceeded the WQCC standard of 1,000 mg/L in all sampled wells, except MW-2 and MW-10. Monitoring wells MW-11 and MW-15 were dry.

On August 3 and 4, 2004, groundwater samples were collected from monitoring wells MW-1 through

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MW-10, MW-12, MW-13, MW-14, MW-16, MW-17, WMW and SWMW, recovery well RW-1, and water well WW-1. A duplicate sample was obtained from monitoring well MW-1 on Annual August 3 and from well RW-1 on August 4, 2004. Monitoring wells MW-11 and MW-15 were dry. The groundwater samples were submitted under chain-of-custody control to Environmental Lab of Texas (ELOT) in Odessa, Texas, and analyzed for anions, cations and TDS. Prior to sample collection, the wells were purged a minimum of three (3) casing volumes of groundwater. The groundwater samples were collected using dedicated disposable PVC bailers. Table 3 presents a summary of the general chemistry analysis. Appendix B presents the laboratory report.

Referring to Table 3, chloride concentrations exceeded the WQCC standard of 250 mg/L in all wells, except MW-1 (222 mg/L) and WW-1 (222 mg/L). The reported TDS concentrations in groundwater exceeded the WQCC standard of 1,000 mg/L in all sampled wells except MW-1, MW-2, MW-5, MW-7, MW-10, WMW and WW-1. The concentration of sulfate in groundwater collected from monitoring well MW-14 (895 mg/L) exceeded the WQCC standard of 600 mg/L. Monitoring wells MW-11 and MW-15 were dry. Figure 5 presents an isopleth map of chloride concentrations during the August 2004 sampling event.

Following the installation of monitoring wells MW-18, MW-19 and MW-20 on November 9 and 10, 2004, groundwater samples were collected from wells MW-19 and MW-20 on November 23, 2004. Monitoring well MW-18 was dry. The groundwater samples were submitted under chain-of-custody control to Trace, and analyzed for anions, cations and TDS. Prior to sample collection, the wells were purged a minimum of three (3) casing volumes of groundwater. The groundwater samples were collected using dedicated disposable PVC bailers. Table 3 presents a summary of the general chemistry analysis. Appendix B presents the laboratory report.

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Referring to Table 3, chloride was above the WQCC standard of 250 mg/L in groundwater from monitoring well MW-19 (7,000 mg/L) and well MW-20 (606 mg/L). Fluoride was above the WQCC standard of 1.6 mg/L in groundwater from well MW-20 (2.49 mg/L). Nitrate was above the WQCC standard of 10.0 mg/L in groundwater from well MW-19 (17.30 mg/L), and the TDS concentration in groundwater was above the WQCC standard (1,000 mg/L) in well MW-19 (12,900 mg/L).

On February 11, 2005, groundwater samples were collected from monitoring wells MW-1 through MW-10, MW-12 through MW-14, MW-16, MW-17, MW-19, MW-20, WMW and SWMW and recovery well RW-1. A duplicate sample was obtained from well RW-1. Monitoring wells MW-11, MW-15 and MW-18 were dry. The groundwater samples were submitted under chain-of-custody control to Trace, and analyzed for anions, cations and TDS. Prior to sample collection, the wells were purged a minimum of three (3) casing volumes of groundwater. The groundwater samples were collected using dedicated disposable PVC bailers. Table 3 presents a summary of the general chemistry analysis. Appendix B presents the laboratory report.

Referring to Table 3, chloride was above the WQCC standard of 250 mg/L in groundwater from all sampled wells. Fluoride was above the WQCC standard of 1.6 mg/L in groundwater from all wells except MW-4, MW-19, and SWMW. TDS concentrations in groundwater were above the WQCC standard (1,000 mg/L) in all sampled wells except MW-1. The concentration of sulfate in groundwater collected from monitoring well MW-14 (752 mg/L) exceeded the WQCC standard of 600 mg/L. Monitoring wells MW-11, MW-15 and MW-18 were dry. Figure 6 presents an isopleth map of chloride concentrations during the February 2005 sampling event.

3.2.2 Waste Management and Disposition

Purged groundwater from the sampling activities was disposed at an NMOCD permitted salt water

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disposal facility operated by Chapparel Services, Inc., located in Eunice, New Mexico. Approximately 118.5 gallons of purged groundwater was disposed following the May 2004 sampling event, approximately 74.5 gallons was disposed following the August 2004 event, approximately 10 gallons was disposed following the November 2004 event, and approximately 75.5 gallons was disposed following the February 2005 event, for a total of approximately 278.5 gallons.

3.3 Remediation System Installation and Start-up

Texaco submitted an application to the State of New Mexico, Office of the State Engineer (NMSE) for allocating water resources for remediation of the chlorides, subject to conditions. On September 9, 2004, the Application to Appropriate was approved by the NMSE. Construction of the remediation system is pending evaluation of data by Chevron.

4.0 CONCLUSIONS

1. Depth to groundwater ranged from 60.04 feet (MW-5) to 72.78 feet (MW-12) below top of casing (TOC) on May 5, 2004, from 59.97 feet (MW-5) to 72.81 feet (MW-12) below TOC on August 2, 2004, from 59.51 feet (MW-5) to 81.81 feet (MW-20) below TOC on November 23, 2004, and from 59.32 feet (MW-5) to 81.85 feet (MW-20) below TOC on February 9, 2005.
2. Monitoring well MW-11 was consistently dry during each monitoring event, except for February 9, 2005 (75.01 feet below TOC). Monitoring well MW-15 has been dry since installation of the well (November 2003).
3. The groundwater gradient was approximately 0.016 feet per foot during the August 2004 monitoring event and the February 2005 monitoring event.
4. Groundwater flow at the Site has remained consistent, and flows from northwest to southeast.
5. Monitoring wells MW-18, MW-19 and MW-20 were installed November 9 and November

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10, 2004. Monitoring well MW-18 has been dry since installation.

6. On May 5-7, 2004, and August 3-4, 2005, groundwater samples were collected from monitoring wells MW-1 through MW-10, MW-12, MW-13, MW-14, MW-16, MW-17, WMW, SWMW, recovery well RW-1, and water well WW-1. Chloride was above the WQCC standard of 250 milligrams per liter (mg/L) in groundwater from all sampled wells in May 2004, except MW-10 (186 mg/L) and WW-1 (204 mg/L), and was above the WQCC standard in all wells sampled in August, 2004, except MW-1 and WW-1 (222 mg/L each).
7. On November 23, 2004, groundwater samples were collected from new monitoring wells MW-19 and MW-20. Monitoring well MW-18 was dry. Chloride was above the WQCC standard of 250 mg/L in groundwater from monitoring well MW-19 (7,000 mg/L) and well MW-20 (606 mg/L).
8. On February 11, 2005, groundwater samples were collected from monitoring wells MW-1 through MW-10, MW-12 through MW-14, MW-16, MW-17, MW-19, MW-20, WMW and SWMW and recovery well RW-1. Chloride was above the WQCC standard of 250 mg/L in groundwater from all sampled wells.

5.0 RECOMMENDATIONS

Chevron proposes to continue groundwater monitoring on a semi-annual schedule, analyzing groundwater samples for anions, cations and TDS. Chevron also proposes to install at least two (2) additional monitoring wells in order to delineate the extent of the chloride plume (downgradient of well MW-19,and upgradient of well MW-9). Figure 6 shows the proposed monitoring well locations. Chevron will evaluate data from these additional proposed monitoring wells to decide whether further delineation is necessary, and whether plans should be developed for any remediation systems. A report will be submitted to the NMOCD annually, detailing results of groundwater monitoring and remediation activities.

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TABLES

Table 1: Summary of Monitoring and Recovery Well Drilling and Completion Details, Texaco Exploration and Production, Inc., G.L. Erwin Federal "A & B" NCT-2 Tank Battery SW/4, SE/4, Section 35, Township 24 South, Range 37 East Lea County, New Mexico

Well Number	Date Drilled	Drilled Depth Feet BGS	Well Diameter (Inches)	Ground Elevation Feet AMSL	Top-of-Casing Elevation, Feet AMSL	Well Depth Feet TOC	Screen Interval, Feet BGS
MW-1	02/02/98	87.05	2	3159.40	3161.69	87.70	55.07 - 84.68
MW-2	02/02/98	70.50	2	3157.40	3159.89	72.94	50.30 - 69.90
MW-3	02/02/98	71.00	2	3161.30	3164.08	73.26	50.48 - 70.08
MW-4	02/03/98	70.70	2	3162.90	3165.65	73.31	50.63 - 70.23
MW-5	02/03/98	70.41	2	3158.30	3160.75	73.10	50.34 - 69.94
MW-6	07/09/98	75.00	2	3161.88	3164.18	77.24	59.24 - 73.64
MW-7	07/10/98	70.20	2	3158.88	3162.06	73.45	55.04 - 69.6
MW-8	01/14/99	71.00	2	3157.04	3159.66	73.62	50.47 - 70.16
MW-9	09/11/01	73.00	2	3164.17	3167.07	75.90	55.42 - 70.00
MW-10	09/12/01	75.00	2	3168.04	3170.99	77.95	54.19 - 68.77
MW-11	09/12/01	76.00	2	3165.59	3168.24	78.65	57.81 - 72.39
MW-12	09/13/01	80.00	2	3149.44	3152.44	83.00	59.40 - 73.98
MW-13	09/13/01	72.00	2	3152.00	3154.92	74.92	52.93 - 67.51
MW-14	10/06/03	90.00	2	3149.48	3151.91	92.43	79.48 - 89.48
MW-15	10/06/03	85.00	2	3150.03	3152.48	87.45	64.48 - 84.48
MW-16	10/07/03	75.00	2	3155.03	3157.25	77.22	59.48 - 74.48
MW-17	10/07/03	77.00	2	3156.00	3158.37	79.37	56.98 - 76.48
MW-18	11/10/04	75.00	2	3149.10	3151.08	76.98	54.49 - 74.49
MW-19	11/09/04	103.00	2	3146.38	3147.79	104.41	82.41 - 102.41
MW-20	11/10/04	93.00	2	3149.62	3151.56	94.94	72.49 - 92.49
West	-	-	2	3162.00	3164.44	70.43	-
Southwest	-	-	2	3161.50	3164.54	70.45	-
RW-1	07/10/98	73.40	4	3161.08	3163.44	76.30	52.88 - 67.48

Notes: All wells constructed with schedule 40 PVC screen and casing.

1. BGS: Depth in feet below ground surface
2. AMSL: Elevation in feet above mean sea level
3. TOC: Depth in feet from top-of-casing
4. --: No data available
5. RW: Recovery well

Table 2: Summary of Depth-to-Groundwater Measurements from Monitoring and Recovery Wells
Texaco Exploration and Production, Inc., G.L. Erwin Federal "A & B" NCT-2 Tank Battery
SW/4, SE/4, Section 35, Township 24 South, Range 37 East
Lea County, New Mexico

Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13
08/22/97	--	--	--	--	--	--	--	--	--	--	--	--	--
02/04/98	64.15	61.33	65.18	63.94	60.33	--	--	--	--	--	--	--	--
01/14/99	--	--	--	--	--	--	--	--	--	--	--	--	--
02/03/99	--	--	--	--	--	--	--	68.21	--	--	--	--	--
10/19/00	--	--	--	63.80	60.25	--	--	--	--	--	--	--	--
02/07/01	61.40	61.45	65.22	63.78	60.58	68.00	67.25	68.30	--	--	--	--	--
04/30/02	61.43	61.47	65.11	63.72	62.27	68.10	67.50	68.42	63.65	70.35	DRY	72.80	66.97
10/11/02	61.43	61.46	65.14	63.74	60.29	68.04	67.53	68.30	63.59	70.49	DRY	72.81	66.38
12/26/02	61.43	61.52	65.15	63.74	60.29	68.03	67.53	68.30	63.59	70.50	DRY	72.82	66.37
02/17/03	61.42	61.53	65.15	63.74	60.30	68.03	67.53	68.30	63.60	70.50	DRY	72.82	66.37
05/29/03	61.58	61.48	65.19	63.83	60.33	68.38	67.61	68.36	63.73	70.37	DRY	72.77	66.68
08/22/03	61.37	61.41	65.09	63.71	60.24	67.99	67.49	68.26	63.56	70.47	DRY	72.81	67.06
11/05/03	61.35	61.38	65.09	63.68	60.24	67.99	67.47	68.26	63.55	70.49	DRY	72.81	67.36
02/03/04	61.34	61.35	65.06	63.64	60.20	67.92	67.46	68.24	63.47	70.43	DRY	72.83	67.11
05/05/04	61.13	61.20	64.97	63.55	60.04	67.88	67.44	68.24	63.27	70.38	DRY	72.78	67.05
08/02/04	61.08	61.11	64.54	63.45	59.97	67.78	67.34	68.17	63.24	70.26	DRY	72.81	67.21
11/23/04	60.61	60.52	64.47	62.91	59.51	67.31	67.02	67.72	62.40	69.78	DRY	72.69	66.82
02/09/05	60.46	60.45	64.18	62.83	59.32	67.17	67.74	67.41	62.50	---	75.01	72.83	66.50

Date	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	West	Southwest	RW-1	WW-1
08/22/97	--	--	--	--	--	--	--	62.58	63.25	--	--
02/04/98	--	--	--	--	--	--	--	62.50	63.21	--	--
01/14/99	--	--	--	--	--	--	--	--	--	50.85	--
02/03/99	--	--	--	--	--	--	--	--	--	--	--
10/19/00	--	--	--	--	--	--	--	62.37	63.06	62.33	--
02/07/01	--	--	--	--	--	--	--	62.43	63.10	--	--
04/30/02	--	--	--	--	--	--	--	62.37	63.06	62.28	70.21
10/11/02	--	--	--	--	--	--	--	62.35	62.72	62.27	69.71
12/26/02	--	--	--	--	--	--	--	62.34	62.70	62.26	69.70
02/17/03	--	--	--	--	--	--	--	62.34	62.70	62.26	69.70
05/29/03	--	--	--	--	--	--	--	62.22	62.92	62.34	67.37
08/22/03	--	--	--	--	--	--	--	62.35	63.04	62.25	70.27
11/05/03	71.6	DRY	65.68	69.51	--	--	--	62.31	63.03	62.25	70.23
02/03/04	71.62	DRY	68.67	69.53	--	--	--	62.27	62.99	62.2	70.31
05/05/04	71.67	DRY	68.69	69.52	--	--	--	62.11	62.90	62.12	70.23
08/02/04	71.69	DRY	68.65	70.12	--	--	--	62.01	62.71	61.96	69.47
11/23/04	71.60	DRY	68.10	69.31	DRY	72.63	81.81	61.40	62.17	61.46	69.92
02/09/05	71.30	DRY	67.53	69.04	DRY	72.36	81.85	61.30	62.05	61.30	69.75

Notes: All measurements are in feet from top-of-casing

1. --: No data available

Table 3: Summary of General Chemistry Analysis of Groundwater Samples from Monitoring Wells

Texaco Exploration and Production Inc., G.L. Erwin Federal "A & B" NCT-2 Tank Battery

SW/4, SE/4, Section 35, Township 24 South, Range 37 East

Lea County, New Mexico

Well Number	Sample Date	Carbonate mg/L	Bicarbonate mg/L	Chloride mg/L	Fluoride mg/L	Nitrate - N mg/L	Sulfate mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Sodium mg/L	TDS mg/L	Hardness mg/L	Hydroxide mg/L
	NMWQCC Standard (mg/L)			250	1.60	10.00	600.0	—	—	—	—	1000	—	—
MW-1	08/22/97	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/17/98	<2.0	220	233	--	--	92.0	--	--	--	--	812	276	--
	02/07/01	<1.0	136	440	2.10	2.80	70.0	15.7	55.80	11.40	115.0	1,200	--	--
	05/03/02	<1.0	144	428	1.60	3.06	72.5	103.0	38.70	8.68	105.0	--	--	<1.00
	10/11/02	<0.1	155	230	---	---	109.0	69.3	24.80	7.45	125.0	737	---	<0.10
	12/27/02	<0.1	149	248	---	---	109.0	76.6	27.40	5.16	129.0	728	---	<0.10
	02/18/03	<0.1	147	213	---	---	114.0	59.1	21.40	5.06	116.0	713	---	<0.10
	06/02/03	<1.0	132	434	1.77	2.99	73.3	135.0	47.80	8.62	118.0	1,320	---	<1.00
	08/25/03	<1.0	144	279	1.76	3.39	73.3	92.7	31.30	7.17	118.0	856	---	<1.00
	11/05/03	<1.0	162	330	1.94	3.42	78.9	110.0	37.70	9.03	114.0	994	---	<1.00
	02/04/04	<1.0	142	390	1.92	3.25	71.1	117.0	43.20	10.20	113.0	940	---	<1.00
	05/06/04	<1.00	260	403	1.90	4.80	135.0	60.2	18.30	8.93	302.0	1,316	---	<1.00
	08/03/04	<0.1	155	222	---	---	83.2	64.1	30.80	6.41	127.0	431	---	<0.10
	02/11/05	<1.00	146	289	2.68	4.30	79.2	97.9	33.50	8.18	108.0	840	---	<1.00
MW-2	08/22/97	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/17/98	<2.0	360	423	--	--	141.0	--	--	--	--	1,257	124	--
	02/07/01	<1.0	234	570	2.70	5.00	130.0	124.0	40.70	10.90	359.0	1,500	--	--
	05/03/02	<1.0	262	349	2.28	5.36	148.0	21.0	6.18	8.52	315.0	--	--	<1.00
	10/11/02	10.0	250	337	---	---	176.0	18.1	4.92	7.49	329.0	1,120	---	<0.10
	12/27/02	12.0	238	319	---	---	142.0	17.8	5.16	6.10	339.0	1,110	---	<0.10
	02/18/03	<0.1	228	310	---	---	178.0	19.4	6.02	6.30	331.0	1,070	---	<0.10
	06/02/03	<1.0	206	769	2.05	4.43	115.0	176.0	52.60	9.94	383.0	1,955	---	<1.00
	08/25/03	<1.0	242	374	2.07	5.14	142.0	36.1	10.80	8.49	333.0	1,240	---	<1.00
	11/05/03	<1.0	232	498	2.21	5.13	145.0	68.7	21.10	10.10	327.0	1,354	---	<1.00
	02/04/04	<1.0	230	450	2.06	4.97	131.0	76.1	25.20	10.70	324.0	1,424	---	<1.00
	05/06/04	<1.00	150	341	1.79	3.23	75.3	108.0	38.50	8.38	102.0	984	---	<1.00
	08/03/04	<0.1	236	496	---	---	144.0	50.8	34.70	11.00	472.0	811	---	<0.10
	02/11/05	<1.00	220	604	2.79	5.48	130.0	103.0	34.50	11.30	324.0	1,462	---	<1.00
MW-3	08/22/97	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/17/98	<2.0	410	983	--	--	173.0	--	--	--	--	2,261	232	--
	02/07/01	8.0	278	890	3.40	7.30	200.0	56.7	18.70	20.40	648.0	2,100	---	--
	05/02/02	<1.0	298	735	2.84	7.57	213.0	27.5	8.39	24.70	42.8	--	--	<1.00
	05/03/02	<1.0	146	767	2.90	7.39	207.0	37.9	11.50	25.50	28.2	--	--	<1.00

Table 3: Summary of General Chemistry Analysis of Groundwater Samples from Monitoring Wells

Texaco Exploration and Production Inc., G.L. Erwin Federal "A & B" NCT-2 Tank Battery

SW/4, SE/4, Section 35, Township 24 South, Range 37 East

Lea County, New Mexico

Well Number	Sample Date	Carbonate mg/L	Bicarbonate mg/L	Chloride mg/L	Fluoride mg/L	Nitrate - N mg/L	Sulfate mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Sodium mg/L	TDS mg/L	Hardness mg/L	Hydroxide mg/L
	NMWQCC Standard (mg/L)			250	1.60	10.00	600.0	—	—	—	—	1000	—	—
MW-3	10/11/02	<0.1	288	753	---	---	272.0	29.0	9.18	20.60	622.0	1,960	---	<0.10
	12/27/02	<0.1	288	727	---	---	231.0	27.0	7.34	19.90	698.0	1,950	---	<0.10
	02/18/03	<0.1	277	762	---	---	180.0	25.2	7.84	16.40	580.0	1,950	---	<0.10
	06/02/03	<1.0	270	802	3.07	8.06	203.0	64.9	20.00	18.50	728.0	2,720	---	<1.00
	08/26/03	<1.0	282	799	3.00	7.99	198.0	54.9	18.00	16.40	597.0	2,320	---	<1.00
	11/06/03	<1.0	286	746	2.92	7.26	214.0	37.4	11.10	24.90	577.0	2,092	---	<1.00
	02/04/04	<1.0	296	755	2.74	7.36	205.0	42.7	13.10	27.10	546.0	2,275	---	<1.00
	05/07/04	<1.00	300	774	2.57	7.02	197.0	38.8	11.20	22.20	528.0	2,140	---	<1.00
	08/03/04	<0.1	291	798	---	---	155.0	21.5	16.70	25.80	794.0	1,640	---	<0.10
	02/11/05	<1.00	292	879	4.61	9.47	196.0	47.0	14.50	19.10	590.0	2,240	---	<1.00
MW-4	08/22/97	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/17/98	<2.0	510	372	--	--	136.0	--	--	--	--	1,268	---	--
	02/07/01	<1.0	286	1,200	1.70	4.70	100.0	248.0	84.70	24.00	506.0	2,600	--	--
	05/03/02	<1.0	250	868	1.00	4.72	163.0	137.0	48.40	40.70	441.0	--	--	<1.00
	10/14/02	<0.1	342	381	--	--	124.0	9.4	2.48	38.40	405.0	1,220	--	<0.10
	12/27/02	<0.1	288	505	---	---	114.0	21.2	4.42	50.60	461.0	1,450	---	<0.10
	02/18/03	<0.1	264	691	---	---	118.0	32.2	7.50	59.00	474.0	1,610	---	<0.10
	05/30/03	<1.0	236	1,020	<2.00	5.53	79.6	113.0	29.70	59.80	664.0	2,670	---	<1.00
	08/25/03	<1.0	192	1,170	<2.00	5.43	72.9	143.0	35.00	82.10	616.0	2,935	---	<1.00
	11/07/03	<1.0	194	1,620	<2.00	5.48	76.6	228.0	61.40	83.60	629.0	3,035	---	<1.00
	02/05/04	<1.0	170	1,730	<2.00	5.93	79.0	277.0	75.90	108.00	630.0	3,380	---	<1.00
	05/06/04	<1.00	158	2,150	<3.00	5.94	88.2	407.0	99.90	99.70	593.0	4,090	---	<1.00
	08/03/04	<0.1	150	2,730	---	---	125.0	632.0	191.00	124.00	832.0	6,810	---	<0.10
	02/11/05	<1.00	136	4,520	<1.00	5.19	127.0	1060.0	289.00	156.00	983.0	9,030	---	<1.00
MW-5	08/22/97	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/17/98	<2.0	360	408	--	--	151.0	--	--	--	--	1,219	116	--
	02/07/01	<1.0	214	570	1.60	4.80	140.0	123.0	40.80	20.30	331.0	1,500	--	--
	05/03/02	<1.0	238	335	0.96	5.36	162.0	37.3	11.10	27.30	287.0	--	--	<1.00
	10/11/02	<0.1	232	337	---	---	173.0	31.8	10.00	20.70	305.0	1,100	---	<0.10
	12/27/02	<0.1	232	337	---	---	171.0	31.3	8.55	20.60	319.0	1,210	---	<0.10
	02/18/03	<0.1	210	319	---	---	176.0	27.2	8.48	16.50	231.0	1,110	---	<0.10
	06/02/03	<1.0	196	588	1.23	4.86	142.0	132.0	40.50	21.20	364.0	1,644	---	<0.10
	08/26/03	<1.0	210	447	1.32	4.85	141.0	95.1	29.00	23.40	291.0	1,480	---	<1.00

Table 3: Summary of General Chemistry Analysis of Groundwater Samples from Monitoring Wells

Texaco Exploration and Production Inc., G.L. Erwin Federal "A & B" NCT-2 Tank Battery

SW/4, SE/4, Section 35, Township 24 South, Range 37 East

Lea County, New Mexico

Well Number	Sample Date	Carbonate mg/L	Bicarbonate mg/L	Chloride mg/L	Fluoride mg/L	Nitrate - N mg/L	Sulfate mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Sodium mg/L	TDS mg/L	Hardness mg/L	Hydroxide mg/L
NMWQCC Standard (mg/L)				250	1.60	10.00	600.0	—	—	—	—	1000	—	—
MW-5	11/06/03	<1.0	214	456	1.43	5.11	152.0	94.0	29.30	24.80	282.0	1,430	---	<1.00
	02/04/04	<1.0	206	504	1.38	5.31	147.0	95.1	31.40	27.30	289.0	1,410	---	<1.00
	05/07/04	<1.00	222	381	1.02	5.98	151.0	55.9	16.30	25.70	301.0	1,250	---	<1.00
	08/03/04	<0.1	229	461	---	---	155.0	47.9	31.30	31.10	435.0	968	---	<0.10
	02/11/05	<1.0	288	408	2.58	8.36	243.0	46.2	13.30	30.60	433.0	1,598	---	<1.0
MW-6	02/07/01	<1.0	200	1800	3.3	5.4	140	323	108	18.8	657	3,800	--	--
	05/02/02	<1.0	264	503	3.68	7.04	183.0	24.9	7.29	17.40	475.0	--	---	<1.00
	10/14/02	<0.1	262	620	--	--	206.0	18.6	5.34	17.50	556.0	1,670	--	<0.10
	12/27/02	36.00	218	620	--	--	192.0	21.2	6.08	13.60	584.0	1,650	---	<0.10
	02/18/03	16.00	238	638	---	---	298.0	22.1	6.43	11.80	524.0	1,700	---	<0.10
	06/02/03	<1.0	244	772	3.24	6.62	181.0	68.7	23.30	14.40	614.0	2,040	---	<1.00
	08/26/03	<1.0	246	607	2.95	6.65	179.0	35.9	11.60	12.20	525.0	2,370	---	<1.00
	11/06/03	<1.0	250	649	3.28	6.89	191.0	46.0	13.90	18.10	503.0	1,932	---	<1.00
	02/04/04	<1.0	266	713	3.15	7.20	189.0	48.9	15.40	19.90	517.0	2,210	---	<1.00
	05/07/04	<1.00	266	696	2.92	6.74	182.0	54.8	16.10	16.00	503.0	2,095	---	<1.00
	08/03/04	<0.1	260	718	---	---	240.0	22.7	21.70	21.70	825.0	1,430	---	<0.10
	02/11/05	<1.00	270	660	3.76	7.84	192.0	30.1	9.13	19.50	531.0	1,774	---	<1.00
MW-7	02/07/01	<1.0	238	500	3.20	4.10	100.0	80.3	27.30	10.40	326.0	1,300	--	--
	05/02/02	<1.0	244	466	2.94	4.18	106.0	46.6	17.00	8.42	307.0		---	<1.00
	10/11/02	<0.1	242	408	---	---	128.0	39.7	13.50	6.70	316.0	1,120	---	<0.10
	12/27/02	<0.1	232	452	--	--	109.0	56.2	19.20	5.82	353.0	1,220	---	<0.10
	02/17/03	<0.1	200	603	---	---	134.0	90.6	30.90	5.86	339.0	1,440	---	<0.10
	06/02/03	<1.0	242	388	3.23	4.33	115.0	39.5	12.50	6.16	370.0	1,216	---	<1.00
	08/25/03	<1.0	232	367	2.77	4.07	105.0	39.3	12.30	7.14	309.0	1,244	---	<1.00
	11/05/03	<1.0	240	343	3.08	4.16	117.0	36.6	11.40	7.67	304.0	1,186	---	<1.00
	02/04/04	<1.0	262	320	3.10	4.25	112.0	30.7	9.87	7.95	298.0	1,138	---	<1.00
	05/06/04	<1.00	260	339	2.90	4.00	112.0	35.2	10.30	6.81	282.0	1,172	---	<1.00
	08/03/04	<0.1	248	328	---	---	126.0	22.8	12.10	7.55	436.0	734	---	<0.10
	02/11/05	<1.00	238	332	3.76	4.65	123.0	31.5	9.99	7.75	296.0	1,128	---	<1.00
MW-8	02/07/01	20	240	900	3.20	6.60	160.0	79.4	24.50	12.70	604.0	2,100	--	--
	05/02/02	<1.0	236	818	2.65	6.68	168.0	94.5	29.20	13.00	527.0	--	---	<1.00
	10/14/02	<0.1	250	842	---	---	194.0	52.4	20.40	10.80	597.0	1,920	---	<0.10
	12/27/02	<0.1	233	833	---	---	173.0	59.8	20.00	8.64	627.0	2,000	---	<0.10
	02/18/03	<0.1	213	833	---	---	185.0	53.0	17.60	7.13	489.0	1,930	---	<0.10

Table 3: Summary of General Chemistry Analysis of Groundwater Samples from Monitoring Wells

Texaco Exploration and Production Inc., G.L. Erwin Federal "A & B" NCT-2 Tank Battery

SW/4, SE/4, Section 35, Township 24 South, Range 37 East

Lea County, New Mexico

Well Number	Sample Date	Carbonate mg/L	Bicarbonte mg/L	Chloride mg/L	Fluoride mg/L	Nitrate - N mg/L	Sulfate mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Sodium mg/L	TDS mg/L	Hardness mg/L	Hydroxide mg/L
	NMWQCC Standard (mg/L)			250	1.60	10.00	600.0	---	---	---	---	1000	---	---
MW-8	06/02/03	<1.0	244	777	3.29	6.82	173.0	60.0	18.90	9.47	650.0	1,968	---	<1.00
	08/25/03	<1.0	244	738	2.85	6.42	159.0	59.4	17.30	11.40	534.0	1,996	---	<1.00
	11/07/03	<1.0	248	722	3.27	6.65	171.0	58.1	17.90	12.20	525.0	1,972	---	<1.00
	02/04/04	<1.0	254	764	3.77	7.85	161.0	55.2	18.20	13.20	522.0	2,038	---	<1.00
	05/06/04	8.00	262	774	3.36	7.43	164.0	56.2	16.90	10.70	501.0	1,968	---	<1.00
	08/04/04	<0.1	246	771	---	---	222.0	28.6	21.50	11.00	707.0	1,530	---	<0.10
	02/11/05	<1.00	238	818	4.28	8.46	167.0	58.3	19.00	13.20	543.0	2,080	---	<1.00
MW-9	05/01/02	<1.0	142	439	1.88	3.26	106.0	98.8	35.80	9.93	188.0	---	---	<1.00
	10/14/02	<0.1	137	443	---	---	119.0	88.4	33.10	10.40	216.0	1,240	---	<0.10
	12/27/02	<0.1	124	434	---	---	120.0	93.8	33.80	6.22	192.0	1,080	---	<0.10
	02/18/03	<0.1	105	461	---	---	126.0	99.3	34.10	5.62	200.0	1,190	---	<0.10
	05/30/03	<1.0	122	514	1.82	3.01	102.0	113.0	37.90	7.98	240.0	1,324	---	<1.00
	08/25/03	<1.0	114	562	1.58	2.98	95.2	120.0	39.20	9.45	219.0	1,428	---	<1.00
	11/07/03	<1.0	132	468	1.68	2.86	96.2	119.0	39.00	9.18	200.0	1,250	---	<1.00
	02/05/04	<1.0	124	610	2.32	4.18	97.7	125.0	41.10	10.30	221.0	1,345	---	<1.00
	05/05/04	<1.00	122	616	1.39	2.68	91.0	142.0	50.00	9.65	212.0	1,428	---	<1.00
	08/03/04	<0.1	110	691	---	---	115.0	184.0	62.90	10.50	279.0	1,530	---	<0.10
	02/11/05	<1.00	98	1960	3.63	5.36	103.0	495.0	164.00	21.50	388.0	3,920	---	<1.00
MW-10	10/14/02	<0.1	204	71.0	--	--	145.0	42.3	22.80	7.77	87.3	593	--	<0.10
	12/27/02	<0.1	196	70.0	---	---	149.0	68.4	23.10	7.69	92.8	529	---	<0.10
	02/18/03	<0.1	184	65.0	---	---	159.0	67.1	22.80	3.04	90.7	552	---	<0.10
	06/02/03	<1.0	198	55.7	1.60	4.31	134.0	75.7	22.40	4.95	80.4	624	---	<1.00
	08/26/03	<1.0	188	56.1	1.58	4.10	125.0	70.6	23.40	6.29	72.3	688	---	<1.00
	11/07/03	<1.0	200	70.9	1.69	4.19	131.0	70.2	23.50	5.80	69.3	638	---	<1.00
	02/05/04	<1.0	196	101.0	1.68	4.22	121.0	75.8	25.70	6.29	73.8	674	---	<1.00
	05/07/04	<1.00	174	186.0	1.40	3.80	111.0	92.9	30.10	6.34	78.3	736	---	<1.00
	08/03/04	<0.1	144	328.0	---	---	118.0	106.0	49.50	7.70	106.0	796	---	<0.10
	02/11/05	<1.0	112	1110.0	3.44	5.86	93.1	357.0	115.00	14.00	157.0	2,295	---	<1.00
MW-12	05/02/02	<1.0	88	1120	1.37	4.09	45.3	431.0	153.00	17.70	123.0	--	---	<1.00
	10/11/02	<0.1	93	1370	---	---	47.5	438.0	161.00	15.40	127.0	2,860	---	<0.10
	12/27/02	<0.1	78	1520	---	---	49.3	507.0	181.00	14.10	151.0	3,460	---	<0.10
	02/17/03	<0.1	68	1530	---	---	52.4	461.0	170.00	13.30	136.0	3,980	---	<0.10
	06/02/03	<1.0	72	1380	<2.00	5.06	45.8	491.0	157.00	15.30	151.0	3,250	---	<1.00
	08/26/03	<1.0	66	1550	<2.00	4.94	45.9	525.0	178.00	14.80	156.0	3,855	---	<1.00

Table 3: Summary of General Chemistry Analysis of Groundwater Samples from Monitoring Wells

Texaco Exploration and Production Inc., G.L. Erwin Federal "A & B" NCT-2 Tank Battery

SW/4, SE/4, Section 35, Township 24 South, Range 37 East

Lea County, New Mexico

Well Number	Sample Date	Carbonate mg/L	Bicarbonte mg/L	Chloride mg/L	Fluoride mg/L	Nitrate - N mg/L	Sulfate mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Sodium mg/L	TDS mg/L	Hardness mg/L	Hydroxide mg/L
	NMWQCC Standard (mg/L)			250	1.60	10.00	600.0	---	---	---	---	1000	---	---
MW-12	11/06/03	<1.0	80	1610	2.25	4.81	50.3	568.0	189.00	20.10	159.0	3,860	---	<1.00
	02/05/04	<1.0	74	1680	2.19	5.13	46.0	525.0	181.00	21.60	160.0	2,910	---	<1.00
	05/07/04	<1.0	70	1620	<3.00	5.13	53.6	541.0	178.00	18.50	152.0	3,085	---	<1.0
	08/03/04	<0.1	66	1680	---	---	55.2	680.0	252.00	31.10	211.0	4,300	---	<0.10
	02/11/05	<1.00	82	1770	2.04	6.08	47.7	503.0	176.00	17.80	138.0	3,080	---	<1.00
MW-13	05/02/02	<1.0	122	277	2.31	4.38	131.0	125.0	44.30	10.20	65.6	--	---	<1.00
	10/11/02	<0.1	115	337	---	---	124.0	135.0	46.50	9.47	88.6	1,210	---	<0.10
	12/27/02	<0.1	104	408	---	---	132.0	160.0	55.20	9.71	84.5	1,260	---	<0.10
	02/17/03	<0.1	80	443	---	---	144.0	152.0	54.90	8.88	108.0	1,370	---	<0.10
	06/02/03	<1.0	102	421	2.27	4.43	122.0	153.0	56.00	11.00	90.9	1,260	---	<1.00
	08/26/03	<1.0	92	500	2.10	4.23	115.0	179.0	66.00	12.00	95.6	1,360	---	<1.00
	11/06/03	<1.0	98	492	2.25	4.42	125.0	193.0	68.60	14.30	91.5	1,434	---	<1.00
	02/05/04	<1.0	96	543	2.30	4.56	120.0	179.0	65.60	15.40	98.3	1,220	---	<1.00
	05/07/04	<1.00	98	496	2.04	4.14	116.0	184.0	62.20	12.80	89.3	1,278	---	<1.00
	08/03/04	<0.1	95	532	---	---	116.0	225.0	77.30	15.00	111.0	1,410	---	<0.10
	02/11/05	<1.00	100	491	2.19	5.36	117.0	171.0	61.70	13.30	92.3	1,260	---	<1.00
MW-14	11/05/03	<1.0	100	3500	<4.00	6.58	525.0	951.0	324.00	45.30	732.0	7,315	---	<1.00
	02/04/04	<1.0	74	3910	<3.00	6.01	559.0	966.0	320.00	46.10	840.0	7,720	---	<1.0
	05/06/04	<1.00	86	3970	<4.00	5.54	594.0	997.0	350.00	42.50	836.0	9,560	---	<1.00
	08/04/04	<0.1	78	4430	---	---	895.0	1350.0	455.00	60.30	1220.0	11,500	---	<0.10
	02/11/05	<1.00	80	6120	3.50	5.99	752.0	1180.0	370.00	56.80	1250.0	8,860	---	<1.00
MW-16	11/06/03	<1.0	188	863	1.79	5.65	150.0	183.0	55.60	14.20	372.0	2,100	---	<1.00
	02/04/04	<1.0	174	937	2.19	6.59	123.0	235.0	76.80	15.20	299.0	2,200	---	<1.00
	05/07/04	<1.00	172	953	<2.00	5.91	123.0	240.0	73.80	12.70	313.0	2,280	---	<1.00
	08/03/04	<0.1	158	1010	---	---	159.0	250.0	87.50	13.50	382.0	2,560	---	<0.10
	02/11/05	<1.00	180	944	2.40	7.24	151.0	198.0	62.40	10.90	344.0	2,260	---	<1.00
MW-17	11/05/03	<1.0	154	587	2.06	3.85	104.0	177.0	58.20	12.50	184.0	1,556	---	<1.00
	02/04/04	<1.0	158	650	2.01	3.93	93.1	158.0	52.50	12.20	205.0	1,416	---	<1.00
	05/06/04	<1.00	162	604	1.77	3.57	91.2	182.0	57.70	10.90	176.0	1,416	---	<1.00
	08/04/04	<0.1	141	638	---	---	132.0	207.0	81.00	12.70	221.0	1,660	---	<0.10
	02/11/05	<1.00	174	572	2.94	4.61	101.0	134.0	45.90	11.00	229.0	1,470	---	<1.00

Table 3: **Summary of General Chemistry Analysis of Groundwater Samples from Monitoring Wells**

Texaco Exploration and Production Inc., G.L. Erwin Federal "A & B" NCT-2 Tank Battery

SW/4, SE/4, Section 35, Township 24 South, Range 37 East

Lea County, New Mexico

Well Number	Sample Date	Carbonate mg/L	Bicarbonate mg/L	Chloride mg/L	Fluoride mg/L	Nitrate - N mg/L	Sulfate mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Sodium mg/L	TDS mg/L	Hardness mg/L	Hydroxide mg/L
	NMWQCC Standard (mg/L)			**250**	**1.60**	**10.00**	**600.0**	---	---	---	---	**1000**	---	---
MW-19	11/23/04	<1.00	86	7000	<10.0	17.30	582.0	2020.0	678.00	52.40	1590.0	12,900	---	<1.00
	02/11/05	<1.00	92	5200	1.30	5.12	502.0	1340.0	522.00	61.30	974.0	22,000	---	<1.00
MW-20	11/23/04	<1.00	82	606	2.49	2.90	79.7	176.0	62.60	13.60	104.0	985	---	<1.00
	02/11/05	<1.00	88	745	1.86	4.34	73.8	227.0	77.50	15.00	117.0	1,480	---	<1.00
West	08/22/97	--	--	250	--	--	--	--	--	--	--	--	--	--
	02/17/98	<2.0	370	237	--	--	134.0	--	--	--	--	975	96	--
	02/07/01	<1.0	236	340	2.00	4.50	120.0	39.7	12.50	33.20	264.0	1,000	--	--
	05/03/02	<1.0	214	329	1.39	4.36	116.0	41.9	11.90	40.90	234.0	--	---	<1.00
	10/14/02	<0.1	210	337	--	--	127.0	39.3	9.37	35.60	290.0	986	--	<0.10
	12/27/02	<0.1	198	337	---	---	134.0	43.1	12.50	33.20	263.0	997	--	<0.10
	02/18/03	<0.1	190	354	---	---	141.0	33.6	9.78	23.90	152.0	1,010	---	<0.10
	05/30/03	<1.0	202	353	1.54	4.16	116.0	48.4	13.30	35.10	283.0	1,050	---	<1.00
	08/25/03	<1.0	194	351	1.50	4.08	112.0	49.4	13.20	38.40	265.0	1,066	---	<1.00
	11/07/03	<1.0	204	327	1.65	3.98	115.0	51.3	13.80	38.80	235.0	1,100	---	<1.00
	02/05/04	<1.0	196	345	1.66	4.09	112.0	51.6	14.60	41.40	235.0	1,074	---	<1.00
	05/06/04	<1.00	200	339	1.44	3.83	115.0	53.6	14.00	37.30	241.0	1,040	---	<1.00
	08/03/04	<0.1	186	337	---	---	147.0	41.7	20.10	49.10	297.0	717	---	<0.10
	02/11/05	<1.00	186	417	2.44	4.47	117.0	75.9	21.40	43.90	241.0	1,128	---	<1.00
Southwest	08/22/97	--	--	3,300	--	--	--	---	--	--	--	--	--	--
	02/17/98	<2.0	420	2,170	--	--	255.0	--	--	--	--	4,719	712	--
	02/07/01	<1.0	326	1900	2.20	5.00	350.0	197.0	59.10	---	1,078.0	4,100	--	--
	05/03/02	<1.0	272	1,490	1.38	4.51	301.0	200.0	65.00	46.40	744.0	--	--	<1.00
	10/14/02	<0.1	330	1,330	--	--	360.0	110.0	32.50	61.50	929.0	3,020	--	<0.10
	12/27/02	<0.1	308	1,280	---	---	319.0	107.0	31.90	66.80	980.0	3,040	--	<0.10
	02/18/03	<0.1	289	1,290	---	---	300.0	104.0	31.30	63.00	918.0	2,910	---	<0.10
	06/02/03	<1.0	304	1,420	2.34	5.83	282.0	161.0	45.70	49.10	935.0	4,070	---	<1.00
	08/25/03	<1.0	310	1,190	2.25	6.10	272.0	117.0	33.60	49.70	774.0	3,205	---	<1.00
	11/07/03	<1.0	300	1,240	2.29	5.77	255.0	129.0	35.40	48.50	727.0	3,275	---	<1.00
	02/05/04	<1.0	300	1,240	2.37	6.17	238.0	109.0	33.10	52.20	716.0	2,860	---	<1.00
	05/06/04	<1.00	294	1,310	<3.00	6.38	231.0	158.0	30.80	53.20	780.0	3,180	---	<1.00
	08/03/04	<0.1	276	1,400	---	---	264.0	75.1	45.20	82.40	1660.0	2,550	---	<0.10
	02/11/05	<1.00	260	2920	1.33	9.61	230.0	323.0	94.50	84.40	1240.0	5,575	---	<1.00

Table 3: Summary of General Chemistry Analysis of Groundwater Samples from Monitoring Wells

Texaco Exploration and Production Inc., G.L. Erwin Federal "A & B" NCT-2 Tank Battery

SW/4, SE/4, Section 35, Township 24 South, Range 37 East

Lea County, New Mexico

Well Number	Sample Date	Carbonate mg/L	Bicarbonte mg/L	Chloride mg/L	Fluoride mg/L	Nitrate - N mg/L	Sulfate mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Sodium mg/L	TDS mg/L	Hardness mg/L	Hydroxide mg/L
NMWQCC Standard (mg/L)				250	1.60	10.00	600.0	---	---	---	---	1000	---	---
RW-1	10/20/00	<1.0	330	1500	1.70	5.20	330.0	107.0	29.60	50.00	843.0	3,200	--	--
	10/14/02	<0.1	327	1,150	--	--	340.0	60.3	25.50	64.30	820.0	2,720	--	<0.10
	12/27/02	<0.1	294	1,300	--	--	330.0	123.0	40.30	56.80	933.0	3,190	--	<0.10
	02/18/03	<0.1	300	1,150	---	---	316.0	79.7	25.70	53.00	721.0	2,690	---	<0.10
	06/02/03	<1.0	276	1,500	2.05	5.34	275.0	194.0	67.21	40.80	923.0	4,070	---	<1.00
	08/25/03	<1.0	298	1,190	2.01	6.15	278.0	117.0	32.70	46.10	705.0	2,940	---	<1.00
	11/07/03	<1.0	298	1,300	2.13	5.56	266.0	166.0	48.10	51.70	106.0	3,240	---	<1.00
	02/05/04	<1.0	292	1,270	2.22	5.92	246.0	148.0	44.70	53.80	704.0	2,780	---	<1.00
	05/06/04	<1.00	310	1,100	<3.00	6.62	235.0	104.0	28.30	53.80	635.0	2,840	---	<1.00
	08/04/04	<0.1	284	1,120	---	---	290.0	44.8	33.00	86.90	785.0	2,250	---	<0.10
	02/11/05	<1.00	262	1,730	3.59	8.93	217.0	172.0	51.50	84.00	910.0	3,995	---	<1.00
WW-1	05/01/02	<1.0	172	97.2	1.64	4.05	137.0	51.4	23.40	8.23	84.9	---	---	<1.00
	10/10/02	<0.1	168	106	---	---	124.0	52.7	22.20	9.99	106.0	605	---	<0.10
	12/27/02	<0.1	157	111	--	--	134.0	55.0	22.50	5.30	96.0	572	--	<0.10
	02/18/03	<0.1	152	115	---	---	137.0	53.8	22.10	6.38	93.5	601	---	<0.10
	06/02/03	<1.0	154	127	1.69	3.77	119.0	59.5	24.10	7.14	118.0	621	---	<1.00
	08/25/03	<1.0	148	136	1.70	3.72	111.0	63.0	24.00	8.43	104.0	652	---	<1.00
	11/07/03	<1.0	156	149	1.80	3.62	111.0	62.3	24.40	8.30	95.5	669	---	<1.00
	02/04/04	<1.0	156	185	1.81	3.79	102.0	68.2	25.50	8.70	92.4	709	---	<1.00
	05/05/04	<1.00	148	204	1.54	3.48	99.7	71.9	26.50	8.25	120.0	695	---	<1.00
	08/04/04	<0.1	132	222	---	---	114.0	92.3	37.90	9.89	139.0	471	---	<0.10

Table 3: Summary of General Chemistry Analysis of Groundwater Samples from Monitoring Wells

Texaco Exploration and Production Inc., G.L. Erwin Federal "A & B" NCT-2 Tank Battery

SW/4, SE/4, Section 35, Township 24 South, Range 37 East

Lea County, New Mexico

Well Number	Sample Date	Carbonate mg/L	Bicarbonate mg/L	Chloride mg/L	Fluoride mg/L	Nitrate - N mg/L	Sulfate mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Sodium mg/L	TDS mg/L	Hardness mg/L	Hydroxide mg/L
	NMWQCC Standard (mg/L)			250	1.60	10.00	600.0	—	—	—	—	1000	—	—
Duplicates														
	02/07/01	<1.0	290	890	3.30	7.00	190.0	61.0	21.10	20.50	665.0	2,200	--	--
MW-4	10/14/02	<0.1	358	372	--	--	116.0	8.8	2.38	37.40	409.0	1,260	--	<0.10
	12/27/02	<0.1	158	115	--	--	139.0	55.5	23.00	4.94	94.4	594	--	<0.10
SWMW	02/18/03	<0.1	298	1,310	---	---	299.0	108.0	32.20	58.30	812.0	3,040	---	<0.10
	06/02/03	<1.0	290	1,370	2.12	5.65	287.0	169.0	54.50	45.00	899.0	3,420	---	<1.00
	08/25/03	<1.0	200	1,260	<2.00	5.61	75.5	159.0	41.80	79.00	591.0	3,270	---	<1.00
MW-7	11/05/03	<1.0	238	355	3.04	4.19	117.0	34.7	10.80	7.63	298.0	1,170	---	<1.00
MW-3	11/06/03	<1.0	132	521	1.85	2.92	98.1	120.0	39.50	9.15	200.0	1,392	---	<1.00
MW-17	02/04/04	<1.0	172	557	2.08	4.03	95.7	162.0	52.60	12.10	204.0	1,496	---	<1.00
MW-9	02/05/04	<1.0	120	581	1.23	2.19	53.6	132.0	43.90	10.10	203.0	1,325	---	<1.00
MW-9	05/05/04	<1.00	124	599	1.43	2.72	92.2	144.0	46.70	9.82	223.0	1,476	---	<1.00
RW-1	05/06/04	<1.00	288	1,040	<3.00	6.64	243.0	90.0	24.10	44.50	642.0	2,705	---	<1.00
MW-5	05/07/04	<1.00	242	330	1.04	5.75	152.0	50.7	14.60	27.40	292.0	1,168	---	<1.00
MW-1	08/03/04	<0.1	158	301	---	---	104.0	101.0	45.50	672.00	436.0	605	---	<0.10
RW-1	08/04/04	<0.1	288	1,130	---	---	274.0	45.0	31.60	84.00	961.0	2,550	---	<0.10
RW-1	02/11/05	<1.00	268	1,690	2.00	8.59	224.0	159.0	46.40	81.00	813.0	3,170	---	<1.00

Notes:

1. mg/L: Milligrams per liter
2. <: Concentration below test method detection limit
3. --: No data available
4. RW: Recovery well
5. All analyses prior to 10/14/02 conducted by TraceAnalysis, Inc., Lubbock, TX
6. Analyses from 10/14/02 conducted by Environmental Lab of Texas, Odessa, TX
7. Analyses from 5/30/03 and following, conducted by Trace Analysis Inc, Lubbock, Texas

FIGURES

FIGURE # 1

LEA COUNTY, NEW MEXICO

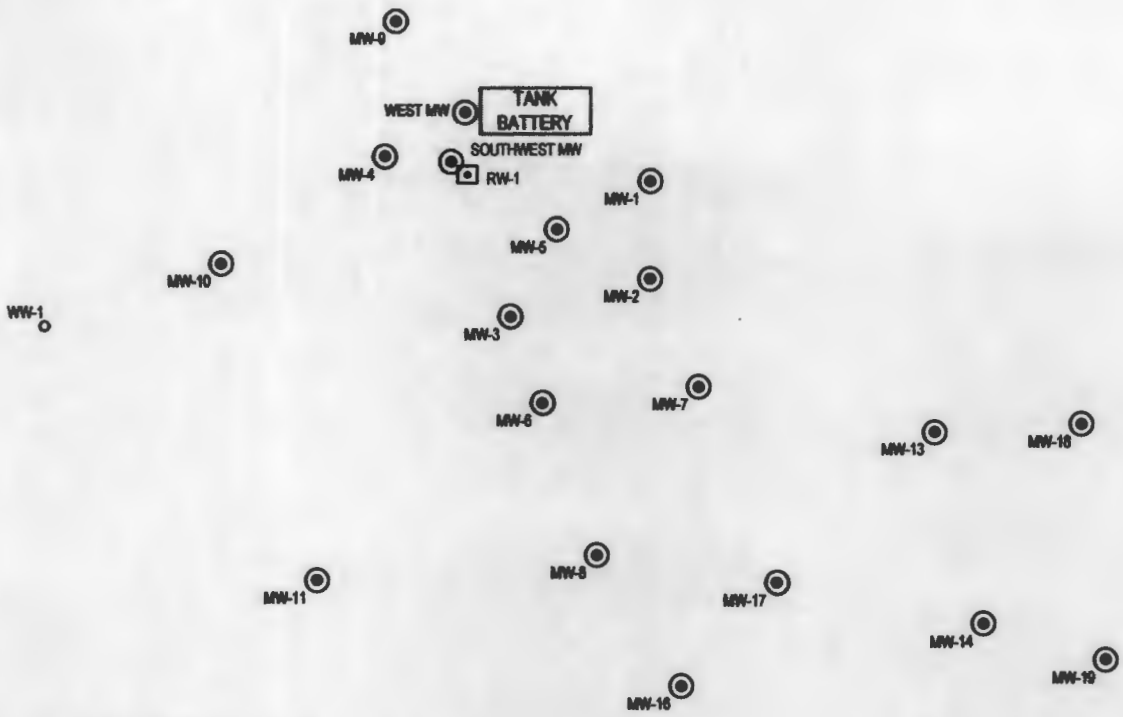
Chevron
NORTH AMERICA EXPLORATION AND PRODUCTION COMPANY

G. L. ERWIN NCT-2 TANK BATTERY
SECTION 35, T-24-S, R-37-E

TOPO MAP LOCATION

DATE	7/22/05
NAME:	SJA
FILE:	0-0112

Larson & Associates, inc.
Environmental Consultants



MONITORING WELL DATA

MONITOR WELL	GROUND ELEVATION (FEET AMSL)	TOP OF CASING ELEVATION (FEET) AMSL
MW-1	3159.40	3161.69
MW-2	3157.40	3159.89
MW-3	3161.30	3164.08
MW-4	3162.90	3165.65
MW-5	3158.30	3160.75
MW-6	3161.88	3164.18
MW-7	3158.88	3162.06
MW-8	3157.04	3159.66
MW-9	3164.17	3167.07
MW-10	3168.04	3170.99
MW-11	3165.59	3168.24
MW-12	3149.50	3152.48
MW-13	3152.00	3154.92
MW-14	3149.48	3151.91
MW-15	3150.03	3152.48
MW-16	3155.03	3157.25
MW-17	3156.00	3158.37
MW-18	3149.10	3151.08
MW-19	3146.38	3147.79
MW-20	3149.62	3151.56
WW-1	3168.81	3170.21
SW MW	3161.50	3164.54
WEST MW	3162.00	3164.44
RW-1	3161.08	3163.52

GRAPHIC SCALE IN FEET

0 400' 800'

Scale: 1" = 400'

LEGEND

WW-1 - WATER WELL

MW-6 - MONITORING WELLS

RW-1 - RECOVERY WELL

FIGURE # 2

LEA COUNTY, NEW MEXICO

Chevron

NORTH AMERICA EXPLORATION AND PRODUCTION COMPANY

G. L. ERWIN NCT-2 TANK BATTERY

SECTION 35, T-24-S, R-37-E

SITE DRAWING

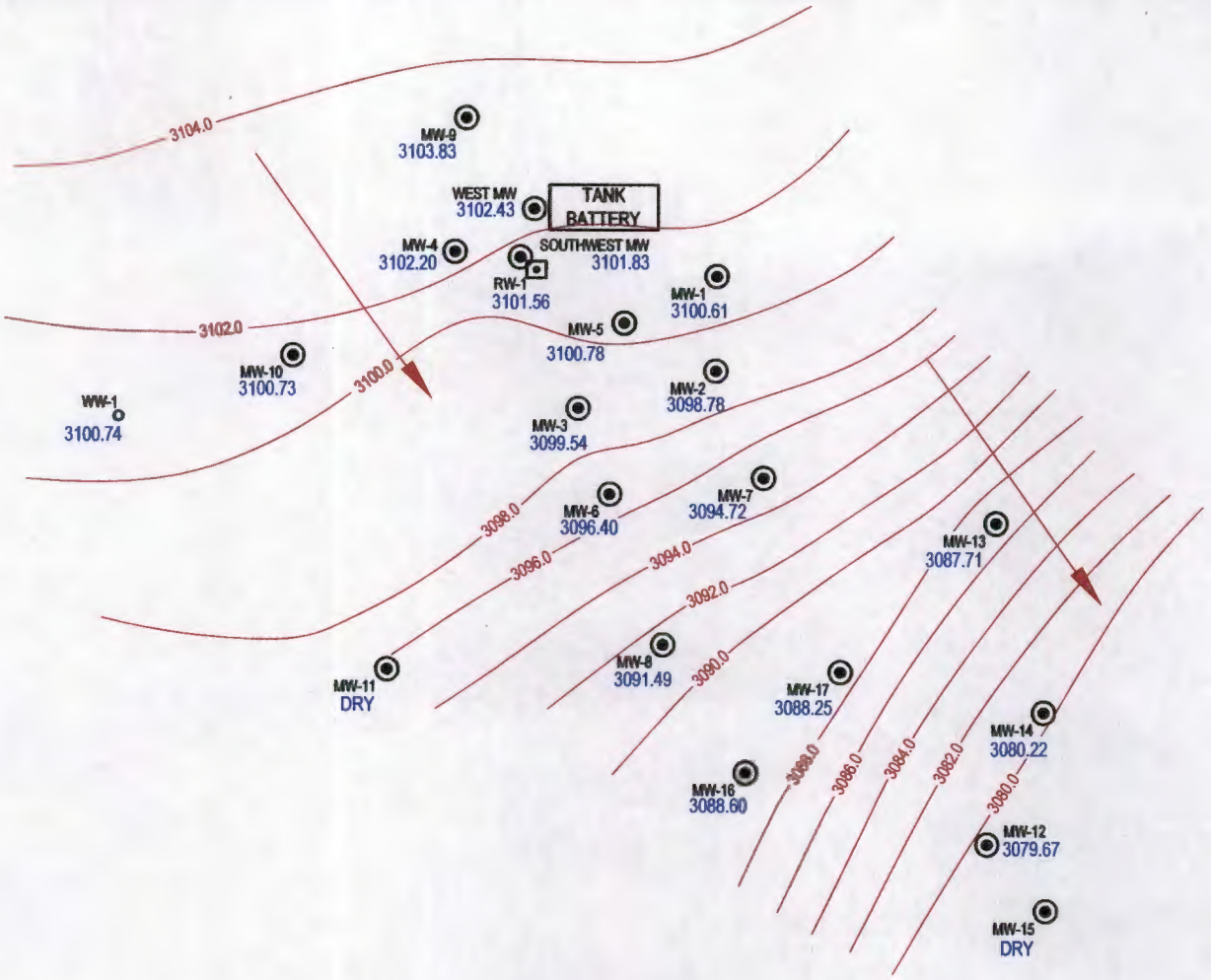
DATE 7/22/05

NAME: SJA

FILE: 0-0112

Larson & Associates, inc.

Environmental Consultants



MONITORING WELL DATA

MONITOR WELL	GROUND ELEVATION (FEET AMSL)	TOP OF CASING ELEVATION (FEET) AMSL
MW-1	3159.40	3161.69
MW-2	3157.40	3159.89
MW-3	3161.30	3164.08
MW-4	3162.90	3165.65
MW-5	3158.30	3160.75
MW-6	3161.88	3164.18
MW-7	3158.88	3162.06
MW-8	3157.04	3159.66
MW-9	3164.17	3167.07
MW-10	3168.04	3170.99
MW-11	3165.59	3168.24
MW-12	3149.50	3152.48
MW-13	3152.00	3154.92
MW-14	3149.48	3151.91
MW-15	3150.03	3152.48
MW-16	3155.03	3157.25
MW-17	3156.00	3158.37
MW-18	3149.10	3151.08
MW-19	3146.38	3147.79
MW-20	3149.62	3151.56
WW-1	3168.81	3170.21
SW MW	3161.50	3164.54
WEST MW	3162.00	3164.44
RW-1	3161.08	3163.52

LEGEND

WW-1 3100.74 - WATER WELL AND GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION (FEET AMSL), 8/2/04

MW-6 3096.40 - MONITORING WELLS AND GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION (FEET AMSL), 8/2/04

RW-1 3101.56 - RECOVERY WELL AND GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION (FEET AMSL), 8/2/04

3102.0 - CONTOUR OF GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION (FEET AMSL), 8/2/04

- GROUNDWATER FLOW DIRECTION

GRAPHIC SCALE IN FEET

0 400' 800'

Scale: 1" = 400'

FIGURE # 3

LEA COUNTY, NEW MEXICO

Chevron

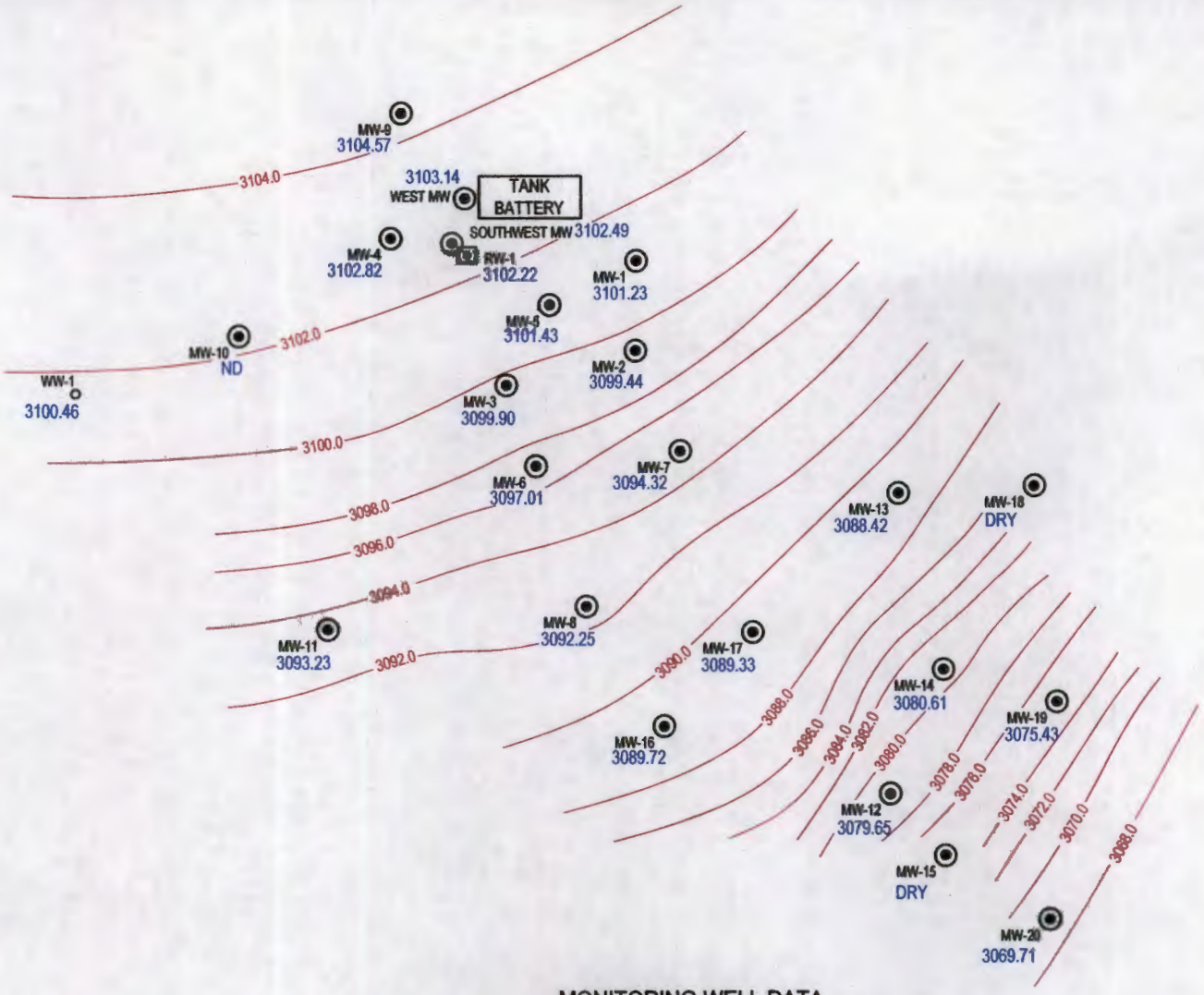
NORTH AMERICA EXPLORATION AND PRODUCTION COMPANY

G. L. ERWIN NCT-2 TANK BATTERY
SECTION 35, T-24-S, R-37-E

GROUNDWATER POTENTIOMETRIC SURFACE MAP
AUGUST 2, 2004

DATE 7/22/05
NAME: SJA
FILE: 0-0112

Larson & Associates, inc.
Environmental Consultants



MONITORING WELL DATA

MONITOR WELL	GROUND ELEVATION (FEET AMSL)	TOP OF CASING ELEVATION (FEET) AMSL
MW-1	3159.40	3161.69
MW-2	3157.40	3159.89
MW-3	3161.30	3164.08
MW-4	3162.90	3165.65
MW-5	3158.30	3160.75
MW-6	3161.88	3164.18
MW-7	3158.88	3162.06
MW-8	3157.04	3159.66
MW-9	3164.17	3167.07
MW-10	3168.04	3170.99
MW-11	3165.59	3168.24
MW-12	3149.50	3152.48
MW-13	3152.00	3154.92
MW-14	3149.48	3151.91
MW-15	3150.03	3152.48
MW-16	3155.03	3157.25
MW-17	3156.00	3158.37
MW-18	3149.10	3151.08
MW-19	3146.38	3147.79
MW-20	3149.62	3151.56
WW-1	3168.81	3170.21
SW MW	3161.50	3164.54
WEST MW	3162.00	3164.44
RW-1	3161.08	3163.52

LEGEND

- WW-1 3100.46 — WATER WELL AND GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION (FEET AMSL), 2/9/05
- MW-6 3097.01 — MONITORING WELLS AND GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION (FEET AMSL), 2/9/05
- RW-1 3102.22 — RECOVERY WELL AND GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION (FEET AMSL), 2/9/05
- 3100.0 — CONTOUR OF GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION (FEET AMSL), 2/9/05
- GROUNDWATER FLOW DIRECTION
- ND — NO DATA AVAILABLE

GRAPHIC SCALE IN FEET

0 400' 800'

Scale: 1" = 400'

FIGURE #4

LEA COUNTY, NEW MEXICO

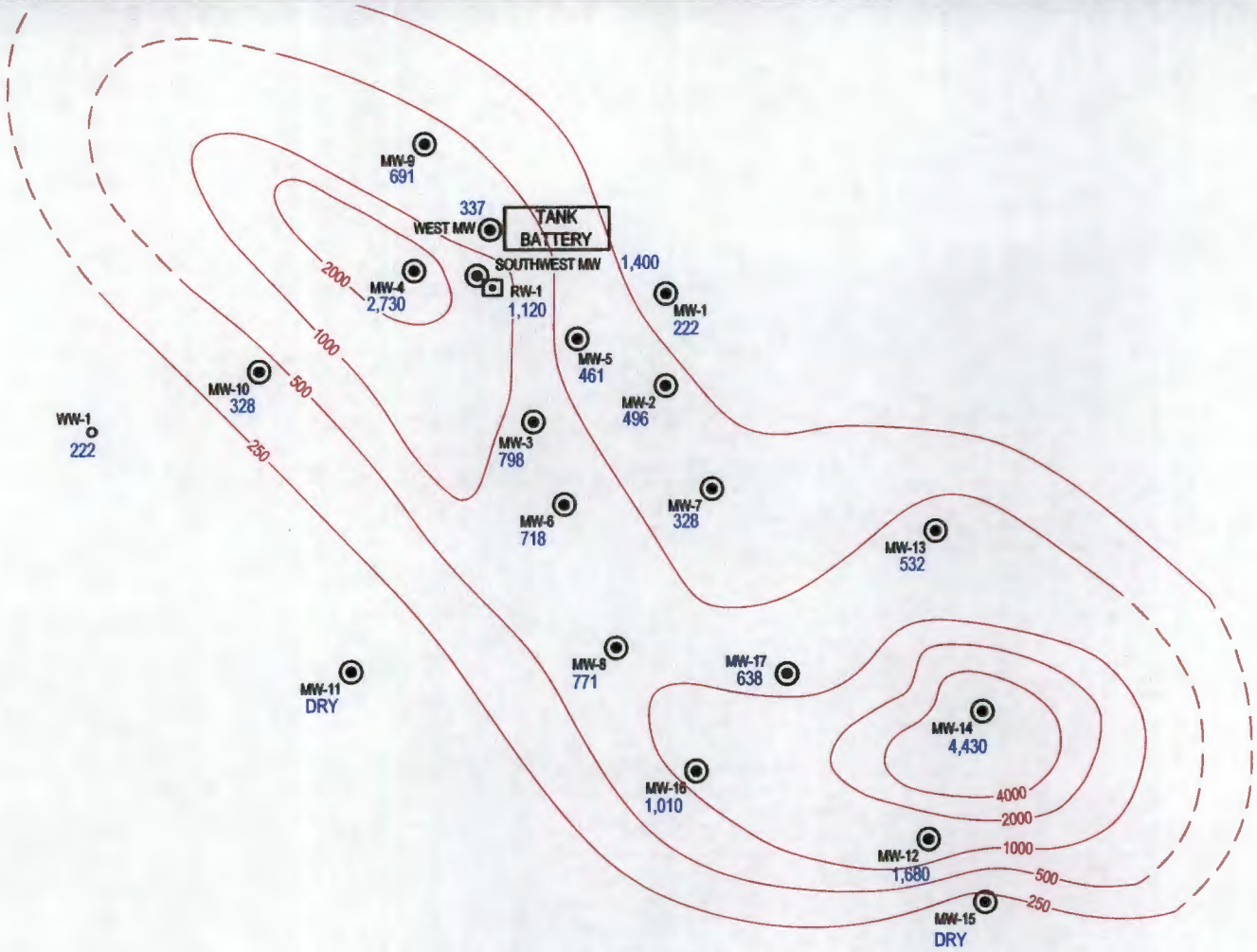
Chevron
NORTH AMERICA EXPLORATION AND PRODUCTION COMPANY

G. L. ERWIN NCT-2 TANK BATTERY
SECTION 35, T-24-S, R-37-E

GROUNDWATER POTENTIOMETRIC SURFACE MAP
FEBRUARY 9, 2005

DATE 7/22/05
NAME: SJA
FILE: 0-0112

Larson & Associates, inc.
Environmental Consultants



MONITORING WELL DATA

MONITOR WELL	GROUND ELEVATION (FEET AMSL)	TOP OF CASING ELEVATION (FEET) AMSL
MW-1	3159.40	3161.69
MW-2	3157.40	3159.89
MW-3	3161.30	3164.08
MW-4	3162.90	3165.65
MW-5	3158.30	3160.75
MW-6	3161.88	3164.18
MW-7	3158.88	3162.06
MW-8	3157.04	3159.66
MW-9	3164.17	3167.07
MW-10	3168.04	3170.99
MW-11	3165.59	3168.24
MW-12	3149.50	3152.48
MW-13	3152.00	3154.92
MW-14	3149.48	3151.91
MW-15	3150.03	3152.48
MW-16	3155.03	3157.25
MW-17	3156.00	3158.37
MW-18	3149.10	3151.08
MW-19	3146.38	3147.79
MW-20	3149.62	3151.56
WW-1	3168.81	3170.21
SW MW	3161.50	3164.54
WEST MW	3162.00	3164.44
RW-1	3161.08	3163.52

LEGEND

WW-1 222 - WATER WELL AND CHLORIDE CONCENTRATION IN GROUNDWATER (MG/L), 8/3/04, 8/4/04

MW-6 718 - MONITORING WELLS AND CHLORIDE CONCENTRATION IN GROUNDWATER (MG/L), 8/3/04, 8/4/04

RW-1 1,120 - RECOVERY WELL AND CHLORIDE CONCENTRATION IN GROUNDWATER (MG/L), 8/3/04, 8/4/04

1000 - CONTOUR OF CHLORIDE CONCENTRATION IN GROUNDWATER (MG/L), 8/3/04, 8/4/04

GRAPHIC SCALE IN FEET

0 400' 800'

Scale: 1" = 400'

FIGURE # 5

LEA COUNTY, NEW MEXICO

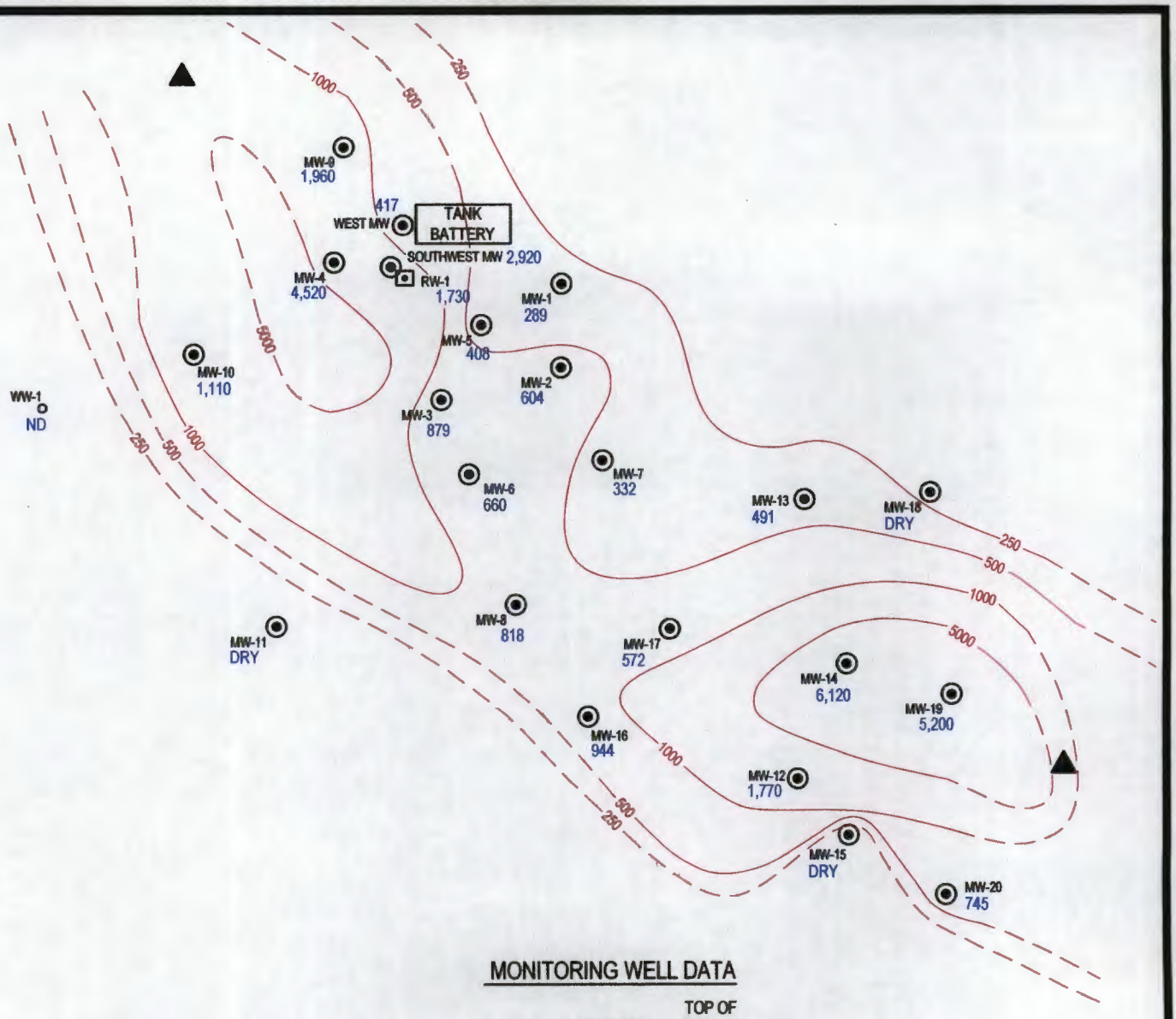
Chevron
NORTH AMERICA EXPLORATION AND PRODUCTION COMPANY

G. L. ERWIN NCT-2 TANK BATTERY
SECTION 35, T-24-S, R-37-E

ISOPLETH MAP OF CHLORIDE CONCENTRATIONS IN GROUNDWATER
AUGUST 3 - 4, 2004

DATE 7/22/05
NAME: SJA
FILE: 0-0112

Larson & Associates, inc.
Environmental Consultants



MONITORING WELL DATA

MONITOR WELL	GROUND ELEVATION (FEET AMSL)	TOP OF CASING ELEVATION (FEET) AMSL
MW-1	3159.40	3161.69
MW-2	3157.40	3159.89
MW-3	3161.30	3164.08
MW-4	3162.90	3165.65
MW-5	3158.30	3160.75
MW-6	3161.88	3164.18
MW-7	3158.88	3162.06
MW-8	3157.04	3159.66
MW-9	3164.17	3167.07
MW-10	3168.04	3170.99
MW-11	3165.59	3168.24
MW-12	3149.50	3152.48
MW-13	3152.00	3154.92
MW-14	3149.48	3151.91
MW-15	3150.03	3152.48
MW-16	3155.03	3157.25
MW-17	3156.00	3158.37
MW-18	3149.10	3151.08
MW-19	3146.38	3147.79
MW-20	3149.62	3151.56
WW-1	3168.81	3170.21
SW MW	3161.50	3164.54
WEST MW	3162.00	3164.44
RW-1	3161.08	3163.52

LEGEND

- WW-1 ○ - WATER WELL
- MW-6 660 ◉ - MONITORING WELLS AND CHLORIDE CONCENTRATION IN GROUNDWATER (MG/L), 2/11/05
- RW-1 1,730 ⊡ - RECOVERY WELL AND CHLORIDE CONCENTRATION IN GROUNDWATER (MG/L), 2/11/05
- —1000— - CONTOUR OF CHLORIDE CONCENTRATION IN GROUNDWATER (MG/L), 2/11/05
- ND - NO DATA AVAILABLE
- ▲ - PROPOSED MONITORING WELL LOCATION

GRAPHIC SCALE IN FEET

0 400' 800'

Scale: 1" = 400'

FIGURE # 6

LEA COUNTY, NEW MEXICO

Chevron
NORTH AMERICA EXPLORATION AND PRODUCTION COMPANY

G. L. ERWIN NCT-2 TANK BATTERY
SECTION 35, T-24-S, R-37-E

ISOPLETH MAP OF CHLORIDE CONCENTRATIONS IN GROUNDWATER
FEBRUARY 11, 2005

DATE 7/22/05
NAME: SJA
FILE: 0-0112

Larson & Associates, inc.
Environmental Consultants

APPENDIX A

BORING LOGS AND WELL CONSTRUCTION RECORDS

Client: ChevronTexaco Exploration and Production Company

Project: G. L. Erwin

Project No.: 0-0112

Location: Lea County, New Mexico

Log: MW-18

Geologist: C. Crain

SUBSURFACE PROFILE				SAMPLE			PID Measurement (PPM) 400 800 1200 1600	Well Detail	Notes
Depth	Description	Symbol	Elevation	Number	Type	Recovery			
0	***Caliche*** 10 Yr. 8/3, very pale brown indurated								Well secured with locking above grade cover anchored in 3' x 3' concrete pad
10			-14						
15	***Sand*** 10 Yr. 7/6 to 7/4, reddish yellow to pink, very fine to fine grained quartz sand, poorly sorted, dry								0.00 - 50.00 BGS Cement/bentonite grout
25									0.00 - 54.49 BGS Threaded 2" Sch. 40 PVC riser
30									
35									Water level, 11/23/04 (dry)
40									
45									50.00 - 52.00 BGS Bentonite pellets
50			-54						52.00 - 75.0 BGS Graded 8-16 silica sand
55	***Clayey Sand*** Reddish brown Damp @ 56'								
60									
65									54.49 - 74.49 BGS Threaded 2" Sch. 40 PVC screen, 0.02" slots
70									
75	***TD: 75'***		-75						75.00 BGS Threaded 2" Sch. 40 PVC cap
80									
85									
90									
95									
100									

Drilled By: Scarborough

Drill Method: Air Rotary

Drill Date: 11/10/04

Larson and Associates Inc.
507 N. Marienfeld, Suite 202
Midland, Texas 79701
(432) 687-0901

Well Size: 2"

TOC Elevation: N/A

Checked By: C. Crain

Client: ChevronTexaco Exploration and Production Company

Project: G. L. Erwin

Project No.: 0-0112

Location: Lea County, New Mexico

Log: MW-19

Geologist: C. Crain

Page: 1 of 1

SUBSURFACE PROFILE				SAMPLE			PID Measurement (PPM) 400 800 1200 1600	Well Detail	Notes
Depth	Description	Symbol	Elevation	Number	Type	Recovery			
0	*Sand* 10 Yr. 7/6 to 7/4, reddish yellow to pink, very fine to fine grained quartz sand, poorly sorted, dry, damp at 93'								Well secured with locking above grade cover anchored in 3' x 3' concrete pad
95			-97						
100	*Clayey Sand* Reddish brown		-103						
105	*TD: 103'*								
110									

Notes:
- 0.00 - 82.41 BGS: Threaded 2" Sch. 40 PVC riser
- 0.00 - 77.00 BGS: Cement/bentonite grout
- 72.63 BGS: Water level, 11/23/04
- 77.00 - 80.00 BGS: Bentonite pellets
- 80.00 - 103.0 BGS: Graded 8-16 silica sand
- 82.41 - 102.41 BGS: Threaded 2" Sch. 40 PVC screen, 0.02" slots
- 103.00 BGS: Threaded 2" Sch. 40 PVC cap

Drilled By: Scarborough

Drill Method: Air Rotary

Drill Date: 11/09/04

Larson and Associates Inc.
507 N. Marienfeld, Suite 202
Midland, Texas 79701
(432) 687-0901

Well Size: 2"

TOC Elevation: N/A

Checked By: C. Crain

Client: ChevronTexaco Exploration and Production Company

Project: G. L. Erwin

Project No.: 0-0112

Location: Lea County, New Mexico

Log: MW-20

Geologist: C. Crain

Page: 1 of 1

SUBSURFACE PROFILE				SAMPLE			PID Measurement (PPM) 400 800 1200 1600	Well Detail	Notes
Depth	Description	Symbol	Elevation	Number	Type	Recovery			
0	***Sand*** 10 Yr. 7/6 to 7/4, reddish yellow to pink, very fine to fine grained quartz sand, poorly sorted, dry, damp at 84 '								Well secured with locking above grade cover anchored in 3' x 3' concrete pad
85			-86						
90	***Clayey Sand*** Reddish brown		-93						
95	***TD: 93'***								

0.00 - 72.49 BGS
Threaded 2" Sch. 40 PVC riser

0.00 - 67.00 BGS
Cement/bentonite grout

67.00 - 70.00 BGS
Bentonite pellets

70.00 - 93.00 BGS
Graded 8-16 silica sand

81.81 BGS
Water level, 11/23/04

72.49 - 92.49 BGS
Threaded 2" Sch. 40 PVC screen, 0.02" slots

93.00 BGS
Threaded 2" Sch. 40 PVC cap

Drilled By: Scarborough

Drill Method: Air Rotary

Drill Date: 11/10/04

Larson and Associates Inc.
507 N. Marienfeld, Suite 202
Midland, Texas 79701
(432) 687-0901

Well Size: 2"

TOC Elevation: N/A

Checked By: C. Crain

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Chevron Texaco Exploration & Production Owner's Well No. MW-19

Street or Post Office Address P.O. Box 3109

City and State Midland Texas 79702

Well was drilled under Permit No. _____ and is located in the:

a. G.L. Irwin Gas Plant ¼ ¼ ¼ ¼ of Section _____ Township _____ Range _____ N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____ Subdivision, recorded in Lea County, N.M. County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Scarborough Drilling, Inc. License No. _____

Address P.O. Box 305 Lamesa, Texas 79331

Drilling Began 11/09/04 Completed 11/09/04 Type tools air rotary Size of hole 5 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 103 ft.

Completed well is [X] shallow [ ] artesian. Depth to water upon completion of well 72.63 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
2	sch 40	pvc	+2	83		0.02	83	103

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
0	77	5	cement		poured
77	80	5	bentonite		poured
80	103	5	sand		poured

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by:

_____

State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	97	97	Sand; reddish yellow to pink, vfg to fg, quartz sand, poorly sorted, dry, damp at 93'
97	103	6	Clayey sand; reddish brown

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Lee Scarborough
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office [illegible]. All sections except Section 5 shall be answered as completely and accurately as possible when any well is

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Chevron Texaco Owner's Well No. MW-18

Street or Post Office Address P.O. Box 3109

City and State Midland, Texas 79702

Well was drilled under Permit No. _____ and is located in the:

a. _____ ¼ _____ ¼ _____ ¼ of Section _____ Township _____ Range _____ N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County, New Mexico County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

G.L. Irwin Gas Plant

(B) Drilling Contractor Scarborough Drilling, Inc License No. WD1188

Address P.O. Box 305 Lamesa, Texas 79331

Drilling Began 11/10/04 Completed 11/10/04 Type tools air rotary Size of hole 5 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 75 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well dry ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
2	sch 40		+2	55		.020	55	75

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
0	50	5	cement		poured
50	52	5	bentonite		poured
52	75	5	sand		poured

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by:

_____
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	14	14	Caliche: very pale brown, indurated
14	54	40	Sand; reddish yellow to pink, vfg to fg, quartz sand, poorly sorted, dsy.
54	75	21	Clayey sand; reddish brown, damp

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Lee Searles
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office [illegible]. All sections except Section 5 shall be answered as completely and accurately as possible when any well is

Revised June 1972

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Chevron Texaco Owner's Well No. MW 20

Street or Post Office Address P.O. Box 3109

City and State Midland, Texas 79331

cc

Well was drilled under Permit No. _____ and is located in the:

a. _____ ¼ G.L. ¼ Irwin Gas Plant ¼ of Section _____ Township _____ Range _____ N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County, N.M. County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Scarborough Drilling, Inc. License No. WD1188

Address P.O. Box 305 Lamesa, Texas 79331

Drilling Began 11/10/04 Completed 11/10/04 Type tools air rotary Size of hole 5 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 93 ft.

Completed well is [X] shallow [ ] artesian. Depth to water upon completion of well 81.81 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	Depth in Feet To	Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet Top	Depth in Feet Bottom	Length (feet)	Type of Shoe	Perforations From	Perforations To
2	sch 40	pvc	+2	73		0.02	73	93

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	Depth in Feet To	Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
0	67	5	cement		poured
67	70	5	bentonite		poured
70	93	5	sand		poured

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by:

_____
State Engineer Representative

No.	Depth in Feet Top	Depth in Feet Bottom	Cubic Feet of Cement
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

Section 6. LOG OF HOLE

Depth in Feet From	Depth in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	86	86	Sand; reddish yellow to pink, vfg to fg quartz sand, poorly sorted, dry, damp at 84'
86	93	7	Clayey sand; reddish brown

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office [illegible] All sections except Section 5 shall be answered as completely and accurately as possible when any well is

APPENDIX B

LABORATORY ANALYSIS AND CHAIN OF CUSTODY DOCUMENTATION

APPENDIX B

LABORATORY ANALYSIS AND CHAIN OF CUSTODY DOCUMENTATION

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Cindy Crain
Larson and Associates, Inc.
P. O. Box 50685
Midland, Tx 79710

Report Date: May 21, 2004

Work Order: 4051012

Client Name: Chev TX
Project Name: G.L. Erwin
Project Number: 0-0112

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
33420	WW-1	water	2004-05-05	14:35	2004-05-10
33421	MW-9	water	2004-05-05	15:05	2004-05-10
33422	MW-14	water	2004-05-06	09:57	2004-05-10
33423	MW-17	water	2004-05-06	10:20	2004-05-10
33424	MW-8	water	2004-05-06	10:42	2004-05-10
33425	MW-7	water	2004-05-06	11:36	2004-05-10
33426	MW-1	water	2004-05-06	11:53	2004-05-10
33427	MW-2	water	2004-05-06	12:05	2004-05-10
33428	MW-4	water	2004-05-06	14:00	2004-05-10
33429	RW-1	water	2004-05-06	14:28	2004-05-10
33430	SW-MW	water	2004-05-06	14:47	2004-05-10
33431	W-MW	water	2004-05-06	15:05	2004-05-10
33432	Dup	water	2004-05-06	00:00	2004-05-10
33433	Dup	water	2004-05-05	00:00	2004-05-10
33434	MW-10	water	2004-05-07	08:30	2004-05-10
33435	MW-5	water	2004-05-07	09:12	2004-05-10
33436	MW-6	water	2004-05-07	09:41	2004-05-10
33437	MW-3	water	2004-05-07	10:05	2004-05-10
33438	MW-13	water	2004-05-07	10:10	2004-05-10
33439	MW-16	water	2004-05-07	10:15	2004-05-10
33440	MW-12	water	2004-05-07	10:20	2004-05-10
33441	Dup	water	2004-05-07	00:00	2004-05-10

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

Dr. Blair Leftwich, Director

Analytical Report

Sample: 33420 - WW-1

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	9582	Date Analyzed:	2004-05-11	Analyzed By:	RS
Prep Batch:	8502	Date Prepared:	2004-05-11	Prepared By:	RS

Parameter	Flag	Result	RL	Units	Dilution	RL
Hydroxide Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		148		mg/L as CaCo3	1	4.00
Total Alkalinity		148		mg/L as CaCo3	1	4.00

Sample: 33420 - WW-1

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	9688	Date Analyzed:	2004-05-14	Analyzed By:	BC
Prep Batch:	8488	Date Prepared:	2004-05-12	Prepared By:	TP

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Calcium		71.9		mg/L	1	0.500
Dissolved Potassium		8.25		mg/L	1	0.500
Dissolved Magnesium		26.5		mg/L	1	0.500
Dissolved Sodium		120		mg/L	1	0.500

Sample: 33420 - WW-1

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9529	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8457	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		204		mg/L	5	0.500
Fluoride		1.54		mg/L	5	0.200
Sulfate		99.7		mg/L	5	0.500

Sample: 33420 - WW-1

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9529	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8457	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	Result	RL	Units	Dilution	RL
Nitrate-N		3.48		mg/L	5	0.200

Sample: 33420 - WW-1

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	9569	Date Analyzed:	2004-05-12	Analyzed By:	JSW
Prep Batch:	8485	Date Prepared:	2004-05-11	Prepared By:	JSW

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Dissolved Solids		695.0		mg/L	1	10.00

Sample: 33421 - MW-9

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	9582	Date Analyzed:	2004-05-11	Analyzed By:	RS
Prep Batch:	8502	Date Prepared:	2004-05-11	Prepared By:	RS

Parameter	Flag	Result	RL	Units	Dilution	RL
Hydroxide Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		122		mg/L as CaCo3	1	4.00
Total Alkalinity		122		mg/L as CaCo3	1	4.00

Sample: 33421 - MW-9

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	9688	Date Analyzed:	2004-05-14	Analyzed By:	BC
Prep Batch:	8488	Date Prepared:	2004-05-12	Prepared By:	TP

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Calcium		142		mg/L	1	0.500
Dissolved Potassium		9.65		mg/L	1	0.500
Dissolved Magnesium		50.0		mg/L	1	0.500
Dissolved Sodium		212		mg/L	1	0.500

Sample: 33421 - MW-9

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9529	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8457	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		616		mg/L	50	0.500
Fluoride		1.39		mg/L	5	0.200
Sulfate		91.0		mg/L	5	0.500

Sample: 33421 - MW-9

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9529	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8457	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		2.68	mg/L	5	0.200

Sample: 33421 - MW-9

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	9569	Date Analyzed:	2004-05-12	Analyzed By:	JSW
Prep Batch:	8485	Date Prepared:	2004-05-11	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		1428	mg/L	4	10.00

Sample: 33422 - MW-14

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	9642	Date Analyzed:	2004-05-13	Analyzed By:	RS
Prep Batch:	8553	Date Prepared:	2004-05-13	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		86.0	mg/L as CaCo3	1	4.00
Total Alkalinity		86.0	mg/L as CaCo3	1	4.00

Sample: 33422 - MW-14

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	9688	Date Analyzed:	2004-05-14	Analyzed By:	BC
Prep Batch:	8488	Date Prepared:	2004-05-12	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		997	mg/L	1	0.500
Dissolved Potassium		42.5	mg/L	1	0.500
Dissolved Magnesium		350	mg/L	1	0.500
Dissolved Sodium		836	mg/L	1	0.500

Sample: 33422 - MW-14

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9529	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8457	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3970	mg/L	500	0.500
Fluoride		<4.00	mg/L	20	0.200
Sulfate		594	mg/L	20	0.500

Sample: 33422 - MW-14

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9529	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8457	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		5.54	mg/L	20	0.200

Sample: 33422 - MW-14

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	9569	Date Analyzed:	2004-05-12	Analyzed By:	JSW
Prep Batch:	8485	Date Prepared:	2004-05-11	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		9560	mg/L	10	10.00

Sample: 33423 - MW-17

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	9642	Date Analyzed:	2004-05-13	Analyzed By:	RS
Prep Batch:	8553	Date Prepared:	2004-05-13	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		162	mg/L as CaCo3	1	4.00
Total Alkalinity		162	mg/L as CaCo3	1	4.00

Sample: 33423 - MW-17

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	9688	Date Analyzed:	2004-05-14	Analyzed By:	BC
Prep Batch:	8488	Date Prepared:	2004-05-12	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		182	mg/L	1	0.500
Dissolved Potassium		10.9	mg/L	1	0.500

continued ...

sample 33423 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Magnesium		57.7	mg/L	1	0.500
Dissolved Sodium		176	mg/L	1	0.500

Sample: 33423 - MW-17

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9529	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8457	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		604	mg/L	50	0.500
Fluoride		1.77	mg/L	5	0.200
Sulfate		91.2	mg/L	5	0.500

Sample: 33423 - MW-17

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9529	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8457	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		3.57	mg/L	5	0.200

Sample: 33423 - MW-17

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	9569	Date Analyzed:	2004-05-12	Analyzed By:	JSW
Prep Batch:	8485	Date Prepared:	2004-05-11	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		1416	mg/L	2	10.00

Sample: 33424 - MW-8

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	9642	Date Analyzed:	2004-05-13	Analyzed By:	RS
Prep Batch:	8553	Date Prepared:	2004-05-13	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		8.00	mg/L as CaCo3	1	1.00

continued ...

sample 33424 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Bicarbonate Alkalinity		262	mg/L as CaCo3	1	4.00
Total Alkalinity		270	mg/L as CaCo3	1	4.00

Sample: 33424 - MW-8

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	9688	Date Analyzed:	2004-05-14	Analyzed By:	BC
Prep Batch:	8488	Date Prepared:	2004-05-12	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		56.2	mg/L	1	0.500
Dissolved Potassium		10.7	mg/L	1	0.500
Dissolved Magnesium		16.9	mg/L	1	0.500
Dissolved Sodium		501	mg/L	1	0.500

Sample: 33424 - MW-8

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9529	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8457	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		774	mg/L	50	0.500
Fluoride		3.36	mg/L	10	0.200
Sulfate		164	mg/L	10	0.500

Sample: 33424 - MW-8

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9529	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8457	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		7.43	mg/L	10	0.200

Sample: 33424 - MW-8

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	9569	Date Analyzed:	2004-05-12	Analyzed By:	JSW
Prep Batch:	8485	Date Prepared:	2004-05-11	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		1968	mg/L	2	10.00

Sample: 33425 - MW-7

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	9642	Date Analyzed:	2004-05-13	Analyzed By:	RS
Prep Batch:	8553	Date Prepared:	2004-05-13	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		260	mg/L as CaCo3	1	4.00
Total Alkalinity		260	mg/L as CaCo3	1	4.00

Sample: 33425 - MW-7

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	9688	Date Analyzed:	2004-05-14	Analyzed By:	BC
Prep Batch:	8488	Date Prepared:	2004-05-12	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		35.2	mg/L	1	0.500
Dissolved Potassium		6.81	mg/L	1	0.500
Dissolved Magnesium		10.3	mg/L	1	0.500
Dissolved Sodium		282	mg/L	1	0.500

Sample: 33425 - MW-7

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9530	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8458	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		339	mg/L	10	0.500
Fluoride		2.90	mg/L	5	0.200
Sulfate		112	mg/L	5	0.500

Sample: 33425 - MW-7

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9530	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8458	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		4.00	mg/L	5	0.200

Sample: 33425 - MW-7

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	9569	Date Analyzed:	2004-05-12	Analyzed By:	JSW
Prep Batch:	8485	Date Prepared:	2004-05-11	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		1172	mg/L	4	10.00

Sample: 33426 - MW-1

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	9642	Date Analyzed:	2004-05-13	Analyzed By:	RS
Prep Batch:	8553	Date Prepared:	2004-05-13	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		260	mg/L as CaCo3	1	4.00
Total Alkalinity		260	mg/L as CaCo3	1	4.00

Sample: 33426 - MW-1

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	9688	Date Analyzed:	2004-05-14	Analyzed By:	BC
Prep Batch:	8488	Date Prepared:	2004-05-12	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		60.2	mg/L	1	0.500
Dissolved Potassium		8.93	mg/L	1	0.500
Dissolved Magnesium		18.3	mg/L	1	0.500
Dissolved Sodium		302	mg/L	1	0.500

Sample: 33426 - MW-1

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9530	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8458	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		403	mg/L	50	0.500

continued ...

sample 33426 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Fluoride		1.90	mg/L	5	0.200
Sulfate		135	mg/L	5	0.500

Sample: 33426 - MW-1

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9530	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8458	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		4.80	mg/L	5	0.200

Sample: 33426 - MW-1

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	9569	Date Analyzed:	2004-05-12	Analyzed By:	JSW
Prep Batch:	8485	Date Prepared:	2004-05-11	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		1316	mg/L	4	10.00

Sample: 33427 - MW-2

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	9642	Date Analyzed:	2004-05-13	Analyzed By:	RS
Prep Batch:	8553	Date Prepared:	2004-05-13	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		150	mg/L as CaCo3	1	4.00
Total Alkalinity		150	mg/L as CaCo3	1	4.00

Sample: 33427 - MW-2

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	9688	Date Analyzed:	2004-05-14	Analyzed By:	BC
Prep Batch:	8488	Date Prepared:	2004-05-12	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		108	mg/L	1	0.500

continued ...

sample 33427 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Potassium		8.38	mg/L	1	0.500
Dissolved Magnesium		38.5	mg/L	1	0.500
Dissolved Sodium		102	mg/L	1	0.500

Sample: 33427 - MW-2

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9532	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8459	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		341	mg/L	10	0.500
Fluoride		1.79	mg/L	5	0.200
Sulfate		75.3	mg/L	5	0.500

Sample: 33427 - MW-2

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9532	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8459	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		3.23	mg/L	5	0.200

Sample: 33427 - MW-2

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	9569	Date Analyzed:	2004-05-12	Analyzed By:	JSW
Prep Batch:	8485	Date Prepared:	2004-05-11	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		984.0	mg/L	4	10.00

Sample: 33428 - MW-4

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	9642	Date Analyzed:	2004-05-13	Analyzed By:	RS
Prep Batch:	8553	Date Prepared:	2004-05-13	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00

continued ...

sample 33428 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		158	mg/L as CaCo3	1	4.00
Total Alkalinity		158	mg/L as CaCo3	1	4.00

Sample: 33428 - MW-4

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	9688	Date Analyzed:	2004-05-14	Analyzed By:	BC
Prep Batch:	8488	Date Prepared:	2004-05-12	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		407	mg/L	1	0.500
Dissolved Potassium		99.7	mg/L	1	0.500
Dissolved Magnesium		99.9	mg/L	1	0.500
Dissolved Sodium		593	mg/L	1	0.500

Sample: 33428 - MW-4

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9532	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8459	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2150	mg/L	100	0.500
Fluoride		<3.00	mg/L	15	0.200
Sulfate		88.2	mg/L	15	0.500

Sample: 33428 - MW-4

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9532	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8459	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		5.94	mg/L	15	0.200

Sample: 33428 - MW-4

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	9570	Date Analyzed:	2004-05-13	Analyzed By:	JSW
Prep Batch:	8486	Date Prepared:	2004-05-12	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		4090	mg/L	5	10.00

Sample: 33429 - RW-1

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	9642	Date Analyzed:	2004-05-13	Analyzed By:	RS
Prep Batch:	8553	Date Prepared:	2004-05-13	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		310	mg/L as CaCo3	1	4.00
Total Alkalinity		310	mg/L as CaCo3	1	4.00

Sample: 33429 - RW-1

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	9688	Date Analyzed:	2004-05-14	Analyzed By:	BC
Prep Batch:	8488	Date Prepared:	2004-05-12	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		104	mg/L	1	0.500
Dissolved Potassium		53.8	mg/L	1	0.500
Dissolved Magnesium		28.3	mg/L	1	0.500
Dissolved Sodium		635	mg/L	1	0.500

Sample: 33429 - RW-1

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9532	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8459	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1100	mg/L	100	0.500
Fluoride		<3.00	mg/L	15	0.200
Sulfate		235	mg/L	15	0.500

Sample: 33429 - RW-1

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9532	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8459	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	Result	RL	Units	Dilution	RL
Nitrate-N		6.62		mg/L	15	0.200

Sample: 33429 - RW-1

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	9570	Date Analyzed:	2004-05-13	Analyzed By:	JSW
Prep Batch:	8486	Date Prepared:	2004-05-12	Prepared By:	JSW

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Dissolved Solids		2840		mg/L	5	10.00

Sample: 33430 - SW-MW

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	9642	Date Analyzed:	2004-05-13	Analyzed By:	RS
Prep Batch:	8553	Date Prepared:	2004-05-13	Prepared By:	RS

Parameter	Flag	Result	RL	Units	Dilution	RL
Hydroxide Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		294		mg/L as CaCo3	1	4.00
Total Alkalinity		294		mg/L as CaCo3	1	4.00

Sample: 33430 - SW-MW

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	9848	Date Analyzed:	2004-05-18	Analyzed By:	BC
Prep Batch:	8561	Date Prepared:	2004-05-14	Prepared By:	TP

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Calcium		158		mg/L	1	0.500
Dissolved Potassium		53.2		mg/L	1	0.500
Dissolved Magnesium		30.8		mg/L	1	0.500
Dissolved Sodium		780		mg/L	1	0.500

Sample: 33430 - SW-MW

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9532	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8459	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		1310		mg/L	100	0.500

continued ...

sample 33430 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Fluoride		<3.00	mg/L	15	0.200
Sulfate		231	mg/L	15	0.500

Sample: 33430 - SW-MW

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9532	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8459	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		6.38	mg/L	15	0.200

Sample: 33430 - SW-MW

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	9570	Date Analyzed:	2004-05-13	Analyzed By:	JSW
Prep Batch:	8486	Date Prepared:	2004-05-12	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		3180	mg/L	5	10.00

Sample: 33431 - W-MW

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	9642	Date Analyzed:	2004-05-13	Analyzed By:	RS
Prep Batch:	8553	Date Prepared:	2004-05-13	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		200	mg/L as CaCo3	1	4.00
Total Alkalinity		200	mg/L as CaCo3	1	4.00

Sample: 33431 - W-MW

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	9848	Date Analyzed:	2004-05-18	Analyzed By:	BC
Prep Batch:	8561	Date Prepared:	2004-05-14	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		53.6	mg/L	1	0.500

continued ...

sample 33431 continued ...

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Potassium		37.3		mg/L	1	0.500
Dissolved Magnesium		14.0		mg/L	1	0.500
Dissolved Sodium		241		mg/L	1	0.500

Sample: 33431 - W-MW

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9532	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8459	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		339		mg/L	10	0.500
Fluoride		1.44		mg/L	5	0.200
Sulfate		115		mg/L	5	0.500

Sample: 33431 - W-MW

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9532	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8459	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	Result	RL	Units	Dilution	RL
Nitrate-N		3.83		mg/L	5	0.200

Sample: 33431 - W-MW

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	9570	Date Analyzed:	2004-05-13	Analyzed By:	JSW
Prep Batch:	8486	Date Prepared:	2004-05-12	Prepared By:	JSW

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Dissolved Solids		1040		mg/L	2	10.00

Sample: 33432 - Dup

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	9780	Date Analyzed:	2004-05-18	Analyzed By:	RS
Prep Batch:	8674	Date Prepared:	2004-05-18	Prepared By:	RS

Parameter	Flag	Result	RL	Units	Dilution	RL
Hydroxide Alkalinity		<1.00		mg/L as CaCo3	1	1.00

continued ...

sample 33432 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		124	mg/L as CaCo3	1	4.00
Total Alkalinity		124	mg/L as CaCo3	1	4.00

Sample: 33432 - Dup

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	9848	Date Analyzed:	2004-05-18	Analyzed By:	BC
Prep Batch:	8561	Date Prepared:	2004-05-14	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		144	mg/L	1	0.500
Dissolved Potassium		9.82	mg/L	1	0.500
Dissolved Magnesium		46.7	mg/L	1	0.500
Dissolved Sodium		223	mg/L	1	0.500

Sample: 33432 - Dup

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9534	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8461	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		599	mg/L	50	0.500
Fluoride		1.43	mg/L	5	0.200
Sulfate		92.2	mg/L	5	0.500

Sample: 33432 - Dup

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9534	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8461	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		2.72	mg/L	5	0.200

Sample: 33432 - Dup

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	9569	Date Analyzed:	2004-05-12	Analyzed By:	JSW
Prep Batch:	8485	Date Prepared:	2004-05-11	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		1476	mg/L	2	10.00

Sample: 33433 - Dup

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	9780	Date Analyzed:	2004-05-18	Analyzed By:	RS
Prep Batch:	8674	Date Prepared:	2004-05-18	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		288	mg/L as CaCo3	1	4.00
Total Alkalinity		288	mg/L as CaCo3	1	4.00

Sample: 33433 - Dup

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	9848	Date Analyzed:	2004-05-18	Analyzed By:	BC
Prep Batch:	8561	Date Prepared:	2004-05-14	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		90.0	mg/L	1	0.500
Dissolved Potassium		44.5	mg/L	1	0.500
Dissolved Magnesium		24.1	mg/L	1	0.500
Dissolved Sodium		642	mg/L	1	0.500

Sample: 33433 - Dup

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9534	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8461	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1040	mg/L	100	0.500
Fluoride		<3.00	mg/L	15	0.200
Sulfate		243	mg/L	15	0.500

Sample: 33433 - Dup

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9534	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8461	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		6.64	mg/L	15	0.200

Sample: 33433 - Dup

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	9569	Date Analyzed:	2004-05-12	Analyzed By:	JSW
Prep Batch:	8485	Date Prepared:	2004-05-11	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		2705	mg/L	5	10.00

Sample: 33434 - MW-10

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	9780	Date Analyzed:	2004-05-18	Analyzed By:	RS
Prep Batch:	8674	Date Prepared:	2004-05-18	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		174	mg/L as CaCo3	1	4.00
Total Alkalinity		174	mg/L as CaCo3	1	4.00

Sample: 33434 - MW-10

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	9848	Date Analyzed:	2004-05-18	Analyzed By:	BC
Prep Batch:	8561	Date Prepared:	2004-05-14	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		92.9	mg/L	1	0.500
Dissolved Potassium		6.34	mg/L	1	0.500
Dissolved Magnesium		30.1	mg/L	1	0.500
Dissolved Sodium		78.3	mg/L	1	0.500

Sample: 33434 - MW-10

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9534	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8461	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		186	mg/L	5	0.500

continued ...

sample 33434 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Fluoride		1.40	mg/L	5	0.200
Sulfate		111	mg/L	5	0.500

Sample: 33434 - MW-10

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9534	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8461	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		3.80	mg/L	5	0.200

Sample: 33434 - MW-10

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	9660	Date Analyzed:	2004-05-17	Analyzed By:	JSW
Prep Batch:	8575	Date Prepared:	2004-05-13	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		736.0	mg/L	2	10.00

Sample: 33435 - MW-5

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	9780	Date Analyzed:	2004-05-18	Analyzed By:	RS
Prep Batch:	8674	Date Prepared:	2004-05-18	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		222	mg/L as CaCo3	1	4.00
Total Alkalinity		222	mg/L as CaCo3	1	4.00

Sample: 33435 - MW-5

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	9848	Date Analyzed:	2004-05-18	Analyzed By:	BC
Prep Batch:	8561	Date Prepared:	2004-05-14	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		55.9	mg/L	1	0.500

continued ...

sample 33435 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Potassium		25.7	mg/L	1	0.500
Dissolved Magnesium		16.3	mg/L	1	0.500
Dissolved Sodium		301	mg/L	1	0.500

Sample: 33435 - MW-5

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9534	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8461	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		381	mg/L	50	0.500
Fluoride		1.02	mg/L	5	0.200
Sulfate		151	mg/L	5	0.500

Sample: 33435 - MW-5

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9534	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8461	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		5.98	mg/L	5	0.200

Sample: 33435 - MW-5

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	9660	Date Analyzed:	2004-05-17	Analyzed By:	JSW
Prep Batch:	8575	Date Prepared:	2004-05-13	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		1250	mg/L	2	10.00

Sample: 33436 - MW-6

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	9780	Date Analyzed:	2004-05-18	Analyzed By:	RS
Prep Batch:	8674	Date Prepared:	2004-05-18	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00

continued ...

sample 33436 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		266	mg/L as CaCo3	1	4.00
Total Alkalinity		266	mg/L as CaCo3	1	4.00

Sample: 33436 - MW-6

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	9848	Date Analyzed:	2004-05-18	Analyzed By:	BC
Prep Batch:	8561	Date Prepared:	2004-05-14	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		54.8	mg/L	1	0.500
Dissolved Potassium		16.0	mg/L	1	0.500
Dissolved Magnesium		16.1	mg/L	1	0.500
Dissolved Sodium		503	mg/L	1	0.500

Sample: 33436 - MW-6

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9534	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8461	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		696	mg/L	50	0.500
Fluoride		2.92	mg/L	5	0.200
Sulfate		182	mg/L	5	0.500

Sample: 33436 - MW-6

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9534	Date Analyzed:	2004-05-11	Analyzed By:	JSW
Prep Batch:	8461	Date Prepared:	2004-05-10	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		6.74	mg/L	5	0.200

Sample: 33436 - MW-6

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	9660	Date Analyzed:	2004-05-17	Analyzed By:	JSW
Prep Batch:	8575	Date Prepared:	2004-05-13	Prepared By:	JSW

Parameter	Flag	Result	RL Units	Dilution	RL
Total Dissolved Solids		2095	mg/L	5	10.00

Sample: 33437 - MW-3

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	9780	Date Analyzed:	2004-05-18	Analyzed By:	RS
Prep Batch:	8674	Date Prepared:	2004-05-18	Prepared By:	RS

Parameter	Flag	Result	RL Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		300	mg/L as CaCo3	1	4.00
Total Alkalinity		300	mg/L as CaCo3	1	4.00

Sample: 33437 - MW-3

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	9848	Date Analyzed:	2004-05-18	Analyzed By:	BC
Prep Batch:	8561	Date Prepared:	2004-05-14	Prepared By:	TP

Parameter	Flag	Result	RL Units	Dilution	RL
Dissolved Calcium		38.8	mg/L	1	0.500
Dissolved Potassium		22.2	mg/L	1	0.500
Dissolved Magnesium		11.2	mg/L	1	0.500
Dissolved Sodium		528	mg/L	1	0.500

Sample: 33437 - MW-3

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9551	Date Analyzed:	2004-05-12	Analyzed By:	JSW
Prep Batch:	8475	Date Prepared:	2004-05-11	Prepared By:	JSW

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		774	mg/L	50	0.500
Fluoride		2.57	mg/L	5	0.200
Sulfate		197	mg/L	5	0.500

Sample: 33437 - MW-3

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9551	Date Analyzed:	2004-05-12	Analyzed By:	JSW
Prep Batch:	8475	Date Prepared:	2004-05-11	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		7.02	mg/L	5	0.200

Sample: 33437 - MW-3

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	9660	Date Analyzed:	2004-05-17	Analyzed By:	JSW
Prep Batch:	8575	Date Prepared:	2004-05-13	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		2140	mg/L	5	10.00

Sample: 33438 - MW-13

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	9780	Date Analyzed:	2004-05-18	Analyzed By:	RS
Prep Batch:	8674	Date Prepared:	2004-05-18	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		98.0	mg/L as CaCo3	1	4.00
Total Alkalinity		98.0	mg/L as CaCo3	1	4.00

Sample: 33438 - MW-13

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	9848	Date Analyzed:	2004-05-18	Analyzed By:	BC
Prep Batch:	8561	Date Prepared:	2004-05-14	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		184	mg/L	1	0.500
Dissolved Potassium		12.8	mg/L	1	0.500
Dissolved Magnesium		62.2	mg/L	1	0.500
Dissolved Sodium		89.3	mg/L	1	0.500

Sample: 33438 - MW-13

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9551	Date Analyzed:	2004-05-12	Analyzed By:	JSW
Prep Batch:	8475	Date Prepared:	2004-05-11	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		496	mg/L	50	0.500

continued ...

sample 33438 continued ...

Parameter	Flag	Result	RL	Units	Dilution	RL
Fluoride		2.04		mg/L	5	0.200
Sulfate		116		mg/L	5	0.500

Sample: 33438 - MW-13

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9551	Date Analyzed:	2004-05-12	Analyzed By:	JSW
Prep Batch:	8475	Date Prepared:	2004-05-11	Prepared By:	JSW

Parameter	Flag	Result	RL	Units	Dilution	RL
Nitrate-N		4.14		mg/L	5	0.200

Sample: 33438 - MW-13

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	9660	Date Analyzed:	2004-05-17	Analyzed By:	JSW
Prep Batch:	8575	Date Prepared:	2004-05-13	Prepared By:	JSW

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Dissolved Solids		1278		mg/L	2	10.00

Sample: 33439 - MW-16

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	9780	Date Analyzed:	2004-05-18	Analyzed By:	RS
Prep Batch:	8674	Date Prepared:	2004-05-18	Prepared By:	RS

Parameter	Flag	Result	RL	Units	Dilution	RL
Hydroxide Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		172		mg/L as CaCo3	1	4.00
Total Alkalinity		172		mg/L as CaCo3	1	4.00

Sample: 33439 - MW-16

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	9848	Date Analyzed:	2004-05-18	Analyzed By:	BC
Prep Batch:	8561	Date Prepared:	2004-05-14	Prepared By:	TP

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Calcium		240		mg/L	1	0.500

continued ...

sample 33439 continued ...

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Potassium		12.7		mg/L	1	0.500
Dissolved Magnesium		73.8		mg/L	1	0.500
Dissolved Sodium		313		mg/L	1	0.500

Sample: 33439 - MW-16

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9551	Date Analyzed:	2004-05-12	Analyzed By:	JSW
Prep Batch:	8475	Date Prepared:	2004-05-11	Prepared By:	JSW

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		953		mg/L	100	0.500
Fluoride		<2.00		mg/L	10	0.200
Sulfate		123		mg/L	10	0.500

Sample: 33439 - MW-16

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9551	Date Analyzed:	2004-05-12	Analyzed By:	JSW
Prep Batch:	8475	Date Prepared:	2004-05-11	Prepared By:	JSW

Parameter	Flag	Result	RL	Units	Dilution	RL
Nitrate-N		5.91		mg/L	10	0.200

Sample: 33439 - MW-16

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	9660	Date Analyzed:	2004-05-17	Analyzed By:	JSW
Prep Batch:	8575	Date Prepared:	2004-05-13	Prepared By:	JSW

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Dissolved Solids		2280		mg/L	5	10.00

Sample: 33440 - MW-12

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	9780	Date Analyzed:	2004-05-18	Analyzed By:	RS
Prep Batch:	8674	Date Prepared:	2004-05-18	Prepared By:	RS

Parameter	Flag	Result	RL	Units	Dilution	RL
Hydroxide Alkalinity		<1.00		mg/L as CaCo3	1	1.00

continued ...

sample 33440 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		70.0	mg/L as CaCo3	1	4.00
Total Alkalinity		70.0	mg/L as CaCo3	1	4.00

Sample: 33440 - MW-12

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	9848	Date Analyzed:	2004-05-18	Analyzed By:	BC
Prep Batch:	8561	Date Prepared:	2004-05-14	Prepared By:	TP

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		541	mg/L	1	0.500
Dissolved Potassium		18.5	mg/L	1	0.500
Dissolved Magnesium		178	mg/L	1	0.500
Dissolved Sodium		152	mg/L	1	0.500

Sample: 33440 - MW-12

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9551	Date Analyzed:	2004-05-12	Analyzed By:	JSW
Prep Batch:	8475	Date Prepared:	2004-05-11	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1620	mg/L	100	0.500
Fluoride		<3.00	mg/L	15	0.200
Sulfate		53.6	mg/L	15	0.500

Sample: 33440 - MW-12

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9551	Date Analyzed:	2004-05-12	Analyzed By:	JSW
Prep Batch:	8475	Date Prepared:	2004-05-11	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		5.13	mg/L	15	0.200

Sample: 33440 - MW-12

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	9660	Date Analyzed:	2004-05-17	Analyzed By:	JSW
Prep Batch:	8575	Date Prepared:	2004-05-13	Prepared By:	JSW

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Dissolved Solids		3085		mg/L	5	10.00

Sample: 33441 - Dup

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	9780	Date Analyzed:	2004-05-18	Analyzed By:	RS
Prep Batch:	8674	Date Prepared:	2004-05-18	Prepared By:	RS

Parameter	Flag	Result	RL	Units	Dilution	RL
Hydroxide Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		242		mg/L as CaCo3	1	4.00
Total Alkalinity		242		mg/L as CaCo3	1	4.00

Sample: 33441 - Dup

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	9848	Date Analyzed:	2004-05-18	Analyzed By:	BC
Prep Batch:	8561	Date Prepared:	2004-05-14	Prepared By:	TP

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Calcium		50.7		mg/L	1	0.500
Dissolved Potassium		27.4		mg/L	1	0.500
Dissolved Magnesium		14.6		mg/L	1	0.500
Dissolved Sodium		292		mg/L	1	0.500

Sample: 33441 - Dup

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9551	Date Analyzed:	2004-05-12	Analyzed By:	JSW
Prep Batch:	8475	Date Prepared:	2004-05-11	Prepared By:	JSW

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		330		mg/L	50	0.500
Fluoride		1.04		mg/L	5	0.200
Sulfate		152		mg/L	5	0.500

Sample: 33441 - Dup

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	9551	Date Analyzed:	2004-05-12	Analyzed By:	JSW
Prep Batch:	8475	Date Prepared:	2004-05-11	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		5.75	mg/L	5	0.200

Sample: 33441 - Dup

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	9660	Date Analyzed:	2004-05-17	Analyzed By:	JSW
Prep Batch:	8575	Date Prepared:	2004-05-13	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		1168	mg/L	2	10.00

Method Blank (1) QC Batch: 9529

Parameter	Flag	Result	Units	RL
Nitrate-N		<0.200	mg/L	0.2

Method Blank (1) QC Batch: 9529

Parameter	Flag	Result	Units	RL
Chloride		<0.500	mg/L	0.5
Fluoride		<0.200	mg/L	0.2
Sulfate		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 9530

Parameter	Flag	Result	Units	RL
Nitrate-N		<0.200	mg/L	0.2

Method Blank (1) QC Batch: 9530

Parameter	Flag	Result	Units	RL
Chloride		<0.500	mg/L	0.5
Fluoride		<0.200	mg/L	0.2
Sulfate		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 9532

Parameter	Flag	Result	Units	RL
Nitrate-N		<0.200	mg/L	0.2

Method Blank (1) QC Batch: 9532

Parameter	Flag	Result	Units	RL
Chloride		<0.500	mg/L	0.5
Fluoride		<0.200	mg/L	0.2
Sulfate		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 9534

Parameter	Flag	Result	Units	RL
Nitrate-N		<0.200	mg/L	0.2

Method Blank (1) QC Batch: 9534

Parameter	Flag	Result	Units	RL
Chloride		<0.500	mg/L	0.5
Fluoride		<0.200	mg/L	0.2
Sulfate		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 9551

Parameter	Flag	Result	Units	RL
Nitrate-N		<0.200	mg/L	0.2

Method Blank (1) QC Batch: 9551

Parameter	Flag	Result	Units	RL
Chloride		<0.500	mg/L	0.5
Fluoride		<0.200	mg/L	0.2
Sulfate		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 9569

Parameter	Flag	Result	Units	RL
Total Dissolved Solids		<10.00	mg/L	10

Method Blank (1) QC Batch: 9570

Parameter	Flag	Result	Units	RL
Total Dissolved Solids		<10.00	mg/L	10

Method Blank (1) QC Batch: 9582

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

Method Blank (1) QC Batch: 9642

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

Method Blank (1) QC Batch: 9660

Parameter	Flag	Result	Units	RL
Total Dissolved Solids		<10.00	mg/L	10

Method Blank (1) QC Batch: 9688

Parameter	Flag	Result	Units	RL
Dissolved Calcium		<0.500	mg/L	0.5
Dissolved Potassium		<0.500	mg/L	0.5
Dissolved Magnesium		<0.500	mg/L	0.5
Dissolved Sodium		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 9780

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

Method Blank (1) QC Batch: 9848

Parameter	Flag	Result	Units	RL
Dissolved Calcium		<0.500	mg/L	0.5
Dissolved Potassium		<0.500	mg/L	0.5
Dissolved Magnesium		<0.500	mg/L	0.5
Dissolved Sodium		<0.500	mg/L	0.5

Duplicate (1) QC Batch: 9569

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	1386	1476	mg/L	2	6	8.7

Duplicate (1) QC Batch: 9570

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	1010	1040	mg/L	2	3	8.7

Duplicate (1) QC Batch: 9582

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Carbonate Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Bicarbonate Alkalinity	46.0	46.0	mg/L as CaCo3	1	0	20
Total Alkalinity	46.0	46.0	mg/L as CaCo3	1	0	4.8

Duplicate (1) QC Batch: 9642

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Carbonate Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20

continued ...

duplicate continued . . .

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Bicarbonate Alkalinity	204	200	mg/L as CaCo3	1	2	20
Total Alkalinity	204	200	mg/L as CaCo3	1	2	4.8

Duplicate (1) QC Batch: 9660

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	662.0	648.0	mg/L	1	2	8.7

Duplicate (1) QC Batch: 9780

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Carbonate Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Bicarbonate Alkalinity	236	242	mg/L as CaCo3	1	2	20
Total Alkalinity	236	242	mg/L as CaCo3	1	2	4.8

Laboratory Control Spike (LCS-1) QC Batch: 9529

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	2.38	2.36	mg/L	1	2.50	<0.0217	95	1	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 9529

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	11.7	11.4	mg/L	1	12.5	<0.337	94	2	90 - 110	20
Fluoride	2.32	2.31	mg/L	1	2.50	<0.0594	93	0	90 - 110	20
Sulfate	11.7	11.7	mg/L	1	12.5	<0.409	94	0	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 9530

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	2.40	2.40	mg/L	1	2.50	<0.0217	96	0	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 9530

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	11.6	11.4	mg/L	1	12.5	<0.337	93	2	90 - 110	20
Fluoride	2.30	2.30	mg/L	1	2.50	<0.0594	92	0	90 - 110	20
Sulfate	11.7	11.6	mg/L	1	12.5	<0.409	94	1	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 9532

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	2.34	2.37	mg/L	1	2.50	<0.0217	94	1	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 9532

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	11.3	11.5	mg/L	1	12.5	<0.337	90	2	90 - 110	20
Fluoride	2.27	2.31	mg/L	1	2.50	<0.0594	91	2	90 - 110	20
Sulfate	11.7	11.7	mg/L	1	12.5	<0.409	94	0	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 9534

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	2.37	2.35	mg/L	1	2.50	<0.0217	95	1	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 9534

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	11.3	11.2	mg/L	1	12.5	<0.337	90	1	90 - 110	20
Fluoride	2.30	2.30	mg/L	1	2.50	<0.0594	92	0	90 - 110	20
Sulfate	11.7	11.6	mg/L	1	12.5	<0.409	94	1	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 9551

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	2.38	2.37	mg/L	1	2.50	<0.0217	95	0	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 9551

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	11.4	11.4	mg/L	1	12.5	<0.337	91	0	90 - 110	20
Fluoride	2.32	2.33	mg/L	1	2.50	<0.0594	93	0	90 - 110	20
Sulfate	11.7	11.6	mg/L	1	12.5	<0.409	94	1	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 9688

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Dissolved Calcium	96.3	95.4	mg/L	1	100	<0.102	96	1	85 - 115	20
Dissolved Potassium	95.9	97.7	mg/L	1	100	<0.101	96	2	85 - 115	20
Dissolved Magnesium	94.8	94.8	mg/L	1	100	<0.110	95	0	85 - 115	20
Dissolved Sodium	94.4	96.5	mg/L	1	100	<0.120	94	2	85 - 115	20

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

Laboratory Control Spike (LCS-1) QC Batch: 9848

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Dissolved Calcium	99.9	101	mg/L	1	100	<0.102	100	1	85 - 115	20
Dissolved Potassium	95.8	92.2	mg/L	1	100	<0.101	96	4	85 - 115	20
Dissolved Magnesium	95.8	97.0	mg/L	1	100	<0.110	96	1	85 - 115	20
Dissolved Sodium	99.0	99.6	mg/L	1	100	<0.120	99	1	85 - 115	20

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

Matrix Spike (MS-1) QC Batch: 9529

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	131	130	mg/L	50	2.50	13.6	94	1	79.6 - 109	20

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

Matrix Spike (MS-1) QC Batch: 9529

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	1340	1330	mg/L	50	12.5	774	90	1	74.3 - 118	20
Fluoride	118	119	mg/L	50	2.50	6.04	90	1	84.9 - 104	20
Sulfate	760	754	mg/L	50	12.5	182	92	1	77.8 - 112	20

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

Matrix Spike (MS-1) QC Batch: 9530

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	126	128	mg/L	50	2.50	11.4	92	2	79.6 - 109	20

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

Matrix Spike (MS-1) QC Batch: 9530

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	957	973	mg/L	50	12.5	403	89	2	74.3 - 118	20
Fluoride	117	118	mg/L	50	2.50	4.9	90	1	84.9 - 104	20
Sulfate	727	723	mg/L	50	12.5	150	92	0	77.8 - 112	20

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

Matrix Spike (MS-1) QC Batch: 9532

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	250	250	mg/L	100	2.50	19.1	92	0	79.6 - 109	20

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

Matrix Spike (MS-1) QC Batch: 9532

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	2410	2420	mg/L	100	12.5	1310	88	0	74.3 - 118	20
Fluoride	233	232	mg/L	100	2.50	<5.94	93	0	84.9 - 104	20
Sulfate	1400	1410	mg/L	100	12.5	273	90	1	77.8 - 112	20

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

Matrix Spike (MS-1) QC Batch: 9534

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	127	129	mg/L	50	2.50	13.3	91	2	79.6 - 109	20

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

Matrix Spike (MS-1) QC Batch: 9534

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	1260	1250	mg/L	50	12.5	696	90	1	74.3 - 118	20
Fluoride	117	119	mg/L	50	2.50	6.07	89	2	84.9 - 104	20
Sulfate	759	763	mg/L	50	12.5	189	91	0	77.8 - 112	20

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

Matrix Spike (MS-1) QC Batch: 9551

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	128	129	mg/L	50	2.50	12.4	92	1	79.6 - 109	20

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

Matrix Spike (MS-1) QC Batch: 9551

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	891	889	mg/L	50	12.5	330	90	0	74.3 - 118	20
Fluoride	118	117	mg/L	50	2.50	<2.97	94	1	84.9 - 104	20
Sulfate	728	739	mg/L	50	12.5	160	91	1	77.8 - 112	20

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

Matrix Spike (MS-1) QC Batch: 9688

Param		MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Dissolved Calcium	[12]	143	144	mg/L	1	100	71.9	71	1	75 - 125	20
Dissolved Potassium		96.6	93.9	mg/L	1	100	8.25	88	3	75 - 125	20
Dissolved Magnesium		110	111	mg/L	1	100	26.5	84	1	75 - 125	20
Dissolved Sodium	[34]	182	178	mg/L	1	100	120	62	2	75 - 125	20

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

Matrix Spike (MS-2) QC Batch: 9688

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Dissolved Calcium	241	220	mg/L	1	100	142	99	9	75 - 125	20
Dissolved Potassium	95.1	98.2	mg/L	1	100	9.65	85	3	75 - 125	20
Dissolved Magnesium	142	131	mg/L	1	100	50	92	8	75 - 125	20
Dissolved Sodium	320	290	mg/L	1	100	212	108	10	75 - 125	20

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

Matrix Spike (MS-1) QC Batch: 9848

Param		MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Dissolved Calcium	[5]	234	215	mg/L	1	100	158	76	8	75 - 125	20
Dissolved Potassium		154	145	mg/L	1	100	53.2	101	6	75 - 125	20
Dissolved Magnesium		138	124	mg/L	1	100	30.8	107	11	75 - 125	20

continued ...

[1]ms recovery out of limits due to matrix effect, use lcs/lcsd
[2]ms recovery out of limits due to matrix effect, use lcs/lcsd
[3]ms recovery out of limits due to matrix effect, use lcs/lcsd
[4]ms recovery out of limits due to matrix effect, use lcs/lcsd
[5]ms recovery out of limits due to matrix effect, use lcs/lcsd

matrix spikes continued ...

Param		MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Dissolved Sodium	[6]	879	841	mg/L	1	100	780	99	4	75 - 125	20

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

Matrix Spike (MS-2) QC Batch: 9848

Param		MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Dissolved Calcium	[7,8]	890	674	mg/L	1	100	541	349	28	75 - 125	20
Dissolved Potassium		121	118	mg/L	1	100	18.5	102	2	75 - 125	20
Dissolved Magnesium	[9]	372	297	mg/L	1	100	178	194	22	75 - 125	20
Dissolved Sodium	[10]	316	227	mg/L	1	100	152	164	33	75 - 125	20

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

Standard (ICV-1) QC Batch: 9529

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.39	96	90 - 110	2004-05-11

Standard (ICV-1) QC Batch: 9529

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	13.1	105	90 - 110	2004-05-11
Fluoride		mg/L	2.50	2.50	100	90 - 110	2004-05-11
Sulfate		mg/L	12.5	12.4	99	90 - 110	2004-05-11

Standard (CCV-1) QC Batch: 9529

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.37	95	90 - 110	2004-05-11

Standard (CCV-1) QC Batch: 9529

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.3	90	90 - 110	2004-05-11

continued ...

[6]ms recovery out of limits due to matrix effect, use lcs/lcsd
[7]ms recovery out of limits due to matrix effect, use lcs/lcsd
[8]ms recovery out of limits due to matrix effect, use lcs/lcsd
[9]ms recovery out of limits due to matrix effect, use lcs/lcsd
[10]ms recovery out of limits due to matrix effect, use lcs/lcsd

standard continued . . .

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.32	93	90 - 110	2004-05-11
Sulfate		mg/L	12.5	11.7	94	90 - 110	2004-05-11

Standard (ICV-1) QC Batch: 9530

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.40	96	90 - 110	2004-05-11

Standard (ICV-1) QC Batch: 9530

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.3	90	90 - 110	2004-05-11
Fluoride		mg/L	2.50	2.30	92	90 - 110	2004-05-11
Sulfate		mg/L	12.5	11.7	94	90 - 110	2004-05-11

Standard (CCV-1) QC Batch: 9530

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.40	96	90 - 110	2004-05-11

Standard (CCV-1) QC Batch: 9530

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.3	90	90 - 110	2004-05-11
Fluoride		mg/L	2.50	2.30	92	90 - 110	2004-05-11
Sulfate		mg/L	12.5	11.6	93	90 - 110	2004-05-11

Standard (ICV-1) QC Batch: 9532

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.35	94	90 - 110	2004-05-11

Standard (ICV-1) QC Batch: 9532

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.3	90	90 - 110	2004-05-11
Fluoride		mg/L	2.50	2.32	93	90 - 110	2004-05-11
Sulfate		mg/L	12.5	11.6	93	90 - 110	2004-05-11

Standard (CCV-1) QC Batch: 9532

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.38	95	90 - 110	2004-05-11

Standard (CCV-1) QC Batch: 9532

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.4	91	90 - 110	2004-05-11
Fluoride		mg/L	2.50	2.33	93	90 - 110	2004-05-11
Sulfate		mg/L	12.5	11.7	94	90 - 110	2004-05-11

Standard (ICV-1) QC Batch: 9534

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.38	95	90 - 110	2004-05-11

Standard (ICV-1) QC Batch: 9534

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.4	91	90 - 110	2004-05-11
Fluoride		mg/L	2.50	2.33	93	90 - 110	2004-05-11
Sulfate		mg/L	12.5	11.7	94	90 - 110	2004-05-11

Standard (CCV-1) QC Batch: 9534

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.35	94	90 - 110	2004-05-11

Standard (CCV-1) QC Batch: 9534

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.2	90	90 - 110	2004-05-11
Fluoride		mg/L	2.50	2.32	93	90 - 110	2004-05-11
Sulfate		mg/L	12.5	11.5	92	90 - 110	2004-05-11

Standard (ICV-1) QC Batch: 9551

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.38	95	90 - 110	2004-05-12

Standard (ICV-1) QC Batch: 9551

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.4	91	90 - 110	2004-05-12
Fluoride		mg/L	2.50	2.44	98	90 - 110	2004-05-12
Sulfate		mg/L	12.5	11.8	94	90 - 110	2004-05-12

Standard (CCV-1) QC Batch: 9551

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.37	95	90 - 110	2004-05-12

Standard (CCV-1) QC Batch: 9551

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.2	90	90 - 110	2004-05-12
Fluoride		mg/L	2.50	2.35	94	90 - 110	2004-05-12
Sulfate		mg/L	12.5	11.7	94	90 - 110	2004-05-12

Standard (ICV-1) QC Batch: 9569

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1002	100	90 - 110	2004-05-12

Standard (CCV-1) QC Batch: 9569

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1003	100	90 - 110	2004-05-12

Standard (ICV-1) QC Batch: 9570

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1002	100	90 - 110	2004-05-13

Standard (CCV-1) QC Batch: 9570

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	993.0	99	90 - 110	2004-05-13

Standard (ICV-1) QC Batch: 9582

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0.00	<1.00		0 - 200	2004-05-11
Carbonate Alkalinity		mg/L as CaCo3	0.00	<1.00		0 - 200	2004-05-11
Bicarbonate Alkalinity		mg/L as CaCo3	0.00	<4.00		0 - 200	2004-05-11
Total Alkalinity		mg/L as CaCo3	250	246	98	90 - 110	2004-05-11

Standard (CCV-1) QC Batch: 9582

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0.00	<1.00		0 - 200	2004-05-11
Carbonate Alkalinity		mg/L as CaCo3	0.00	<1.00		0 - 200	2004-05-11
Bicarbonate Alkalinity		mg/L as CaCo3	0.00	<4.00		0 - 200	2004-05-11
Total Alkalinity		mg/L as CaCo3	250	240	96	90 - 110	2004-05-11

Standard (ICV-1) QC Batch: 9642

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0.00	<1.00		0 - 200	2004-05-13
Carbonate Alkalinity		mg/L as CaCo3	0.00	<1.00		0 - 200	2004-05-13
Bicarbonate Alkalinity		mg/L as CaCo3	0.00	<4.00		0 - 200	2004-05-13
Total Alkalinity		mg/L as CaCo3	250	246	98	90 - 110	2004-05-13

Standard (CCV-1) QC Batch: 9642

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0.00	<1.00		0 - 200	2004-05-13
Carbonate Alkalinity		mg/L as CaCo3	0.00	<1.00		0 - 200	2004-05-13
Bicarbonate Alkalinity		mg/L as CaCo3	0.00	<4.00		0 - 200	2004-05-13
Total Alkalinity		mg/L as CaCo3	250	244	98	90 - 110	2004-05-13

Standard (ICV-1) QC Batch: 9660

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1000	100	90 - 110	2004-05-17

Standard (CCV-1) QC Batch: 9660

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1015	102	90 - 110	2004-05-17

Standard (ICV-1) QC Batch: 9688

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	25.0	24.9	100	90 - 110	2004-05-14
Dissolved Potassium		mg/L	25.0	26.1	104	90 - 110	2004-05-14
Dissolved Magnesium		mg/L	25.0	25.2	101	90 - 110	2004-05-14
Dissolved Sodium		mg/L	25.0	26.0	104	90 - 110	2004-05-14

Standard (CCV-1) QC Batch: 9688

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	25.0	26.4	106	90 - 110	2004-05-14
Dissolved Potassium		mg/L	25.0	24.9	100	90 - 110	2004-05-14
Dissolved Magnesium		mg/L	25.0	26.3	105	90 - 110	2004-05-14
Dissolved Sodium		mg/L	25.0	24.2	97	90 - 110	2004-05-14

Standard (CCV-2) QC Batch: 9688

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	25.0	26.3	105	90 - 110	2004-05-14
Dissolved Potassium		mg/L	25.0	25.2	101	90 - 110	2004-05-14
Dissolved Magnesium		mg/L	25.0	25.6	102	90 - 110	2004-05-14
Dissolved Sodium		mg/L	25.0	24.7	99	90 - 110	2004-05-14

Standard (ICV-1) QC Batch: 9780

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0.00	<1.00		0 - 200	2004-05-18
Carbonate Alkalinity		mg/L as CaCo3	0.00	<1.00		0 - 200	2004-05-18
Bicarbonate Alkalinity		mg/L as CaCo3	0.00	<4.00		0 - 200	2004-05-18
Total Alkalinity		mg/L as CaCo3	250	242	97	90 - 110	2004-05-18

Standard (CCV-1) QC Batch: 9780

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0.00	<1.00		0 - 200	2004-05-18
Carbonate Alkalinity		mg/L as CaCo3	0.00	<1.00		0 - 200	2004-05-18
Bicarbonate Alkalinity		mg/L as CaCo3	0.00	<4.00		0 - 200	2004-05-18
Total Alkalinity		mg/L as CaCo3	250	246	98	90 - 110	2004-05-18

Standard (ICV-1) QC Batch: 9848

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	25.0	25.5	102	90 - 110	2004-05-18
Dissolved Potassium		mg/L	25.0	25.4	102	90 - 110	2004-05-18
Dissolved Magnesium		mg/L	25.0	25.3	101	90 - 110	2004-05-18
Dissolved Sodium		mg/L	25.0	26.6	106	90 - 110	2004-05-18

Standard (CCV-1) QC Batch: 9848

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	25.0	24.3	97	90 - 110	2004-05-18
Dissolved Potassium		mg/L	25.0	25.6	102	90 - 110	2004-05-18
Dissolved Magnesium		mg/L	25.0	24.3	97	90 - 110	2004-05-18
Dissolved Sodium		mg/L	25.0	25.5	102	90 - 110	2004-05-18

Standard (CCV-2) QC Batch: 9848

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	25.0	24.3	97	90 - 110	2004-05-18
Dissolved Potassium		mg/L	25.0	25.6	102	90 - 110	2004-05-18
Dissolved Magnesium		mg/L	25.0	24.3	97	90 - 110	2004-05-18
Dissolved Sodium		mg/L	25.0	25.5	102	90 - 110	2004-05-18

33420-4C

4051012

CHAIN—OF—CUSTODY RECORD

Larson & Associates, Inc.
Environmental Consultants
Fax: 432-687-0456
432-687-0901
507 N. Marienfeld, Ste. 202 • Midland, TX 79701

CLIENT NAME: Chev TX
SITE MANAGER: Cindy Crain
PROJECT NO.: 0-0112
PROJECT NAME: G. L. Erwin
PAGE 1 OF 2
LAB. PO #

DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	TDS Cation, Anion	Fl, Cl, NO3, SO4		TDS	Alk	Ca, Mg, K, Na		LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)
5/5	1435	✓			WW-1	1	✓	•	334	20•	•	•			
5/5	1505	✓			MW-9			•		21•	•	•			
5/4	0957				MW-14			•		22•	•	•			
	1020				MW-17			•		23•	•	•			
	1042				MW-8			•		24•	•	•			
	1136				MW-7			•		25•	•	•			
	1153				MW-1			•		26•	•	•			
	1205				MW-3			•		27•	•	•			
	1400				MW-4			•		28•	•	•			
	1428				RW-1			•		29•	•	•			
	1447				SW-MW			•		30•	•	•			
	1505				W-MW			•		31•	•	•			
5/6					Dup			•	334	32•	•	•			
5/5					Dup			•		33•	•	•			

SAMPLED BY: (Signature) Ray Jones DATE: 5/6/04 TIME:
RELINQUISHED BY: (Signature) Ray Jones DATE: 5/7/04 TIME: 1700
RECEIVED BY: (Signature) Allen Shelton DATE: 5/07/04 TIME: 1700

RELINQUISHED BY: (Signature) Allen Shelton DATE: 5/09/04 TIME: 9:00AM
RECEIVED BY: (Signature) Vicki [illegible] DATE: 5-10-04 TIME: 11:10
SAMPLE SHIPPED BY: (Circle) 3°c Greyhound
FEDEX (BUS) AIRBILL #: GLI 1661305305
HAND DELIVERED UPS OTHER:

COMMENTS:
TURNAROUND TIME NEEDED Stan.

RECEIVING LABORATORY: Trace analysis
ADDRESS:
CITY: Lubbock STATE: ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: TIME:

WHITE – RECEIVING LAB
YELLOW – RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)
PINK – PROJECT MANAGER
GOLD – QA/QC COORDINATOR

SAMPLE CONDITION WHEN RECEIVED:
LA CONTACT PERSON: Cindy Crain
SAMPLE TYPE:

Shipped Greyhound 14 samples - HS 5/21 FWD

405012

CHAIN—OF—CUSTODY RECORD

Larson & Associates, Inc.
Environmental Consultants
Fax: 432-687-0456
432-687-0901
507 N. Marienfeld, Ste. 202 • Midland, TX 79701

CLIENT NAME: Chev IX

SITE MANAGER: Cindy Crain

PROJECT NO.: 20112

PROJECT NAME: GL Erwin

PAGE 2 OF 2

LAB. PO #

DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	PARAMETERS/METHOD NUMBER: TDS, Cation Anion	Fl, Cl, NO3, SO4, TDS	alk	Ca Mg Na K	LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)
5/7	0830	✓			MW-10	1	✓	•	•	33434		
5/7	0912	✓			MW-15	1	✓	•	•	35		
	0941	✓			MW-6			•	•	36		
	1205				MW-3			•	•	37		
	1016				MW-13			•	•	38		
	1015				MW-16			•	•	39		
	1020				MW-12			•	•	40		
		✓			Dup	✓	✓	•	•	33441		

SAMPLED BY: (Signature) Ray Jones DATE: 5/7/04 TIME:

RELINQUISHED BY: (Signature) Ray Jones DATE: 5/7/04 TIME: 1700

RECEIVED BY: (Signature) Helen Shelton DATE: 5/07/04 TIME: 1700

RELINQUISHED BY: (Signature) Helen Shelton DATE: 5/09/04 TIME: 9:00 AM

RECEIVED BY: (Signature) Vicki Hunt DATE: 5/10/04 TIME: 11:10

SAMPLE SHIPPED BY: (Circle) FEDEX 3rd BUS HAND DELIVERED UPS

AIRBILL #: Greyhound GLE 106130530 5

OTHER:

COMMENTS:

TURNAROUND TIME NEEDED: Stat

RECEIVING LABORATORY: Trace Analysis

ADDRESS:

CITY: Lubbock STATE: TX ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature) Vicki

DATE: TIME:

WHITE – RECEIVING LAB
YELLOW – RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)
PINK – PROJECT MANAGER
GOLD – QA/QC COORDINATOR

SAMPLE CONDITION WHEN RECEIVED:

LA CONTACT PERSON: Cindy Crain

SAMPLE TYPE:

Shipped Greyhound 18 samples - HS

Summary Report

Cindy Crain
Larson and Associates, Inc.
P. O. Box 50685
Midland, Tx 79710

Report Date: May 21, 2004

Work Order: 4051012

Client Name: Chev TX
Project Name: G.L. Erwin
Project Number: 0-0112

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
33420	WW-1	water	2004-05-05	14:35	2004-05-10
33421	MW-9	water	2004-05-05	15:05	2004-05-10
33422	MW-14	water	2004-05-06	09:57	2004-05-10
33423	MW-17	water	2004-05-06	10:20	2004-05-10
33424	MW-8	water	2004-05-06	10:42	2004-05-10
33425	MW-7	water	2004-05-06	11:36	2004-05-10
33426	MW-1	water	2004-05-06	11:53	2004-05-10
33427	MW-2	water	2004-05-06	12:05	2004-05-10
33428	MW-4	water	2004-05-06	14:00	2004-05-10
33429	RW-1	water	2004-05-06	14:28	2004-05-10
33430	SW-MW	water	2004-05-06	14:47	2004-05-10
33431	W-MW	water	2004-05-06	15:05	2004-05-10
33432	Dup	water	2004-05-06	00:00	2004-05-10
33433	Dup	water	2004-05-05	00:00	2004-05-10
33434	MW-10	water	2004-05-07	08:30	2004-05-10
33435	MW-5	water	2004-05-07	09:12	2004-05-10
33436	MW-6	water	2004-05-07	09:41	2004-05-10
33437	MW-3	water	2004-05-07	10:05	2004-05-10
33438	MW-13	water	2004-05-07	10:10	2004-05-10
33439	MW-16	water	2004-05-07	10:15	2004-05-10
33440	MW-12	water	2004-05-07	10:20	2004-05-10
33441	Dup	water	2004-05-07	00:00	2004-05-10

Sample: 33420 - WW-1

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		148	mg/L as CaCo3	4.00
Total Alkalinity		148	mg/L as CaCo3	4.00
Dissolved Calcium		71.9	mg/L	0.500
Dissolved Potassium		8.25	mg/L	0.500
Dissolved Magnesium		26.5	mg/L	0.500

continued ...

sample 33420 continued ...

Param	Flag	Result	Units	RL
Dissolved Sodium		120	mg/L	0.500
Chloride		204	mg/L	0.500
Fluoride		1.54	mg/L	0.200
Sulfate		99.7	mg/L	0.500
Nitrate-N		3.48	mg/L	0.200
Total Dissolved Solids		695.0	mg/L	10.00

Sample: 33421 - MW-9

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		122	mg/L as CaCo3	4.00
Total Alkalinity		122	mg/L as CaCo3	4.00
Dissolved Calcium		142	mg/L	0.500
Dissolved Potassium		9.65	mg/L	0.500
Dissolved Magnesium		50.0	mg/L	0.500
Dissolved Sodium		212	mg/L	0.500
Chloride		616	mg/L	0.500
Fluoride		1.39	mg/L	0.200
Sulfate		91.0	mg/L	0.500
Nitrate-N		2.68	mg/L	0.200
Total Dissolved Solids		1428	mg/L	10.00

Sample: 33422 - MW-14

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		86.0	mg/L as CaCo3	4.00
Total Alkalinity		86.0	mg/L as CaCo3	4.00
Dissolved Calcium		997	mg/L	0.500
Dissolved Potassium		42.5	mg/L	0.500
Dissolved Magnesium		350	mg/L	0.500
Dissolved Sodium		836	mg/L	0.500
Chloride		3970	mg/L	0.500
Fluoride		<4.00	mg/L	0.200
Sulfate		594	mg/L	0.500
Nitrate-N		5.54	mg/L	0.200
Total Dissolved Solids		9560	mg/L	10.00

Sample: 33423 - MW-17

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		162	mg/L as CaCo3	4.00
Total Alkalinity		162	mg/L as CaCo3	4.00

continued ...

sample 33423 continued ...

Param	Flag	Result	Units	RL
Dissolved Calcium		182	mg/L	0.500
Dissolved Potassium		10.9	mg/L	0.500
Dissolved Magnesium		57.7	mg/L	0.500
Dissolved Sodium		176	mg/L	0.500
Chloride		604	mg/L	0.500
Fluoride		1.77	mg/L	0.200
Sulfate		91.2	mg/L	0.500
Nitrate-N		3.57	mg/L	0.200
Total Dissolved Solids		1416	mg/L	10.00

Sample: 33424 - MW-8

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		8.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		262	mg/L as CaCo3	4.00
Total Alkalinity		270	mg/L as CaCo3	4.00
Dissolved Calcium		56.2	mg/L	0.500
Dissolved Potassium		10.7	mg/L	0.500
Dissolved Magnesium		16.9	mg/L	0.500
Dissolved Sodium		501	mg/L	0.500
Chloride		774	mg/L	0.500
Fluoride		3.36	mg/L	0.200
Sulfate		164	mg/L	0.500
Nitrate-N		7.43	mg/L	0.200
Total Dissolved Solids		1968	mg/L	10.00

Sample: 33425 - MW-7

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		260	mg/L as CaCo3	4.00
Total Alkalinity		260	mg/L as CaCo3	4.00
Dissolved Calcium		35.2	mg/L	0.500
Dissolved Potassium		6.81	mg/L	0.500
Dissolved Magnesium		10.3	mg/L	0.500
Dissolved Sodium		282	mg/L	0.500
Chloride		339	mg/L	0.500
Fluoride		2.90	mg/L	0.200
Sulfate		112	mg/L	0.500
Nitrate-N		4.00	mg/L	0.200
Total Dissolved Solids		1172	mg/L	10.00

Sample: 33426 - MW-1

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00

continued ...

sample 33426 continued ...

Param	Flag	Result	Units	RL
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		260	mg/L as CaCo3	4.00
Total Alkalinity		260	mg/L as CaCo3	4.00
Dissolved Calcium		60.2	mg/L	0.500
Dissolved Potassium		8.93	mg/L	0.500
Dissolved Magnesium		18.3	mg/L	0.500
Dissolved Sodium		302	mg/L	0.500
Chloride		403	mg/L	0.500
Fluoride		1.90	mg/L	0.200
Sulfate		135	mg/L	0.500
Nitrate-N		4.80	mg/L	0.200
Total Dissolved Solids		1316	mg/L	10.00

Sample: 33427 - MW-2

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		150	mg/L as CaCo3	4.00
Total Alkalinity		150	mg/L as CaCo3	4.00
Dissolved Calcium		108	mg/L	0.500
Dissolved Potassium		8.38	mg/L	0.500
Dissolved Magnesium		38.5	mg/L	0.500
Dissolved Sodium		102	mg/L	0.500
Chloride		341	mg/L	0.500
Fluoride		1.79	mg/L	0.200
Sulfate		75.3	mg/L	0.500
Nitrate-N		3.23	mg/L	0.200
Total Dissolved Solids		984.0	mg/L	10.00

Sample: 33428 - MW-4

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		158	mg/L as CaCo3	4.00
Total Alkalinity		158	mg/L as CaCo3	4.00
Dissolved Calcium		407	mg/L	0.500
Dissolved Potassium		99.7	mg/L	0.500
Dissolved Magnesium		99.9	mg/L	0.500
Dissolved Sodium		593	mg/L	0.500
Chloride		2150	mg/L	0.500
Fluoride		<3.00	mg/L	0.200
Sulfate		88.2	mg/L	0.500
Nitrate-N		5.94	mg/L	0.200
Total Dissolved Solids		4090	mg/L	10.00

Sample: 33429 - RW-1

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		310	mg/L as CaCo3	4.00
Total Alkalinity		310	mg/L as CaCo3	4.00
Dissolved Calcium		104	mg/L	0.500
Dissolved Potassium		53.8	mg/L	0.500
Dissolved Magnesium		28.3	mg/L	0.500
Dissolved Sodium		635	mg/L	0.500
Chloride		1100	mg/L	0.500
Fluoride		<3.00	mg/L	0.200
Sulfate		235	mg/L	0.500
Nitrate-N		6.62	mg/L	0.200
Total Dissolved Solids		2840	mg/L	10.00

Sample: 33430 - SW-MW

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		294	mg/L as CaCo3	4.00
Total Alkalinity		294	mg/L as CaCo3	4.00
Dissolved Calcium		158	mg/L	0.500
Dissolved Potassium		53.2	mg/L	0.500
Dissolved Magnesium		30.8	mg/L	0.500
Dissolved Sodium		780	mg/L	0.500
Chloride		1310	mg/L	0.500
Fluoride		<3.00	mg/L	0.200
Sulfate		231	mg/L	0.500
Nitrate-N		6.38	mg/L	0.200
Total Dissolved Solids		3180	mg/L	10.00

Sample: 33431 - W-MW

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		200	mg/L as CaCo3	4.00
Total Alkalinity		200	mg/L as CaCo3	4.00
Dissolved Calcium		53.6	mg/L	0.500
Dissolved Potassium		37.3	mg/L	0.500
Dissolved Magnesium		14.0	mg/L	0.500
Dissolved Sodium		241	mg/L	0.500
Chloride		339	mg/L	0.500
Fluoride		1.44	mg/L	0.200
Sulfate		115	mg/L	0.500
Nitrate-N		3.83	mg/L	0.200
Total Dissolved Solids		1040	mg/L	10.00

Sample: 33432 - Dup

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		124	mg/L as CaCo3	4.00
Total Alkalinity		124	mg/L as CaCo3	4.00
Dissolved Calcium		144	mg/L	0.500
Dissolved Potassium		9.82	mg/L	0.500
Dissolved Magnesium		46.7	mg/L	0.500
Dissolved Sodium		223	mg/L	0.500
Chloride		599	mg/L	0.500
Fluoride		1.43	mg/L	0.200
Sulfate		92.2	mg/L	0.500
Nitrate-N		2.72	mg/L	0.200
Total Dissolved Solids		1476	mg/L	10.00

Sample: 33433 - Dup

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		288	mg/L as CaCo3	4.00
Total Alkalinity		288	mg/L as CaCo3	4.00
Dissolved Calcium		90.0	mg/L	0.500
Dissolved Potassium		44.5	mg/L	0.500
Dissolved Magnesium		24.1	mg/L	0.500
Dissolved Sodium		642	mg/L	0.500
Chloride		1040	mg/L	0.500
Fluoride		<3.00	mg/L	0.200
Sulfate		243	mg/L	0.500
Nitrate-N		6.64	mg/L	0.200
Total Dissolved Solids		2705	mg/L	10.00

Sample: 33434 - MW-10

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		174	mg/L as CaCo3	4.00
Total Alkalinity		174	mg/L as CaCo3	4.00
Dissolved Calcium		92.9	mg/L	0.500
Dissolved Potassium		6.34	mg/L	0.500
Dissolved Magnesium		30.1	mg/L	0.500
Dissolved Sodium		78.3	mg/L	0.500
Chloride		186	mg/L	0.500
Fluoride		1.40	mg/L	0.200
Sulfate		111	mg/L	0.500
Nitrate-N		3.80	mg/L	0.200
Total Dissolved Solids		736.0	mg/L	10.00

Sample: 33435 - MW-5

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		222	mg/L as CaCo3	4.00
Total Alkalinity		222	mg/L as CaCo3	4.00
Dissolved Calcium		55.9	mg/L	0.500
Dissolved Potassium		25.7	mg/L	0.500
Dissolved Magnesium		16.3	mg/L	0.500
Dissolved Sodium		301	mg/L	0.500
Chloride		381	mg/L	0.500
Fluoride		1.02	mg/L	0.200
Sulfate		151	mg/L	0.500
Nitrate-N		5.98	mg/L	0.200
Total Dissolved Solids		1250	mg/L	10.00

Sample: 33436 - MW-6

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		266	mg/L as CaCo3	4.00
Total Alkalinity		266	mg/L as CaCo3	4.00
Dissolved Calcium		54.8	mg/L	0.500
Dissolved Potassium		16.0	mg/L	0.500
Dissolved Magnesium		16.1	mg/L	0.500
Dissolved Sodium		503	mg/L	0.500
Chloride		696	mg/L	0.500
Fluoride		2.92	mg/L	0.200
Sulfate		182	mg/L	0.500
Nitrate-N		6.74	mg/L	0.200
Total Dissolved Solids		2095	mg/L	10.00

Sample: 33437 - MW-3

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		300	mg/L as CaCo3	4.00
Total Alkalinity		300	mg/L as CaCo3	4.00
Dissolved Calcium		38.8	mg/L	0.500
Dissolved Potassium		22.2	mg/L	0.500
Dissolved Magnesium		11.2	mg/L	0.500
Dissolved Sodium		528	mg/L	0.500
Chloride		774	mg/L	0.500
Fluoride		2.57	mg/L	0.200
Sulfate		197	mg/L	0.500
Nitrate-N		7.02	mg/L	0.200
Total Dissolved Solids		2140	mg/L	10.00

Sample: 33438 - MW-13

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		98.0	mg/L as CaCo3	4.00
Total Alkalinity		98.0	mg/L as CaCo3	4.00
Dissolved Calcium		184	mg/L	0.500
Dissolved Potassium		12.8	mg/L	0.500
Dissolved Magnesium		62.2	mg/L	0.500
Dissolved Sodium		89.3	mg/L	0.500
Chloride		496	mg/L	0.500
Fluoride		2.04	mg/L	0.200
Sulfate		116	mg/L	0.500
Nitrate-N		4.14	mg/L	0.200
Total Dissolved Solids		1278	mg/L	10.00

Sample: 33439 - MW-16

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		172	mg/L as CaCo3	4.00
Total Alkalinity		172	mg/L as CaCo3	4.00
Dissolved Calcium		240	mg/L	0.500
Dissolved Potassium		12.7	mg/L	0.500
Dissolved Magnesium		73.8	mg/L	0.500
Dissolved Sodium		313	mg/L	0.500
Chloride		953	mg/L	0.500
Fluoride		<2.00	mg/L	0.200
Sulfate		123	mg/L	0.500
Nitrate-N		5.91	mg/L	0.200
Total Dissolved Solids		2280	mg/L	10.00

Sample: 33440 - MW-12

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		70.0	mg/L as CaCo3	4.00
Total Alkalinity		70.0	mg/L as CaCo3	4.00
Dissolved Calcium		541	mg/L	0.500
Dissolved Potassium		18.5	mg/L	0.500
Dissolved Magnesium		178	mg/L	0.500
Dissolved Sodium		152	mg/L	0.500
Chloride		1620	mg/L	0.500
Fluoride		<3.00	mg/L	0.200
Sulfate		53.6	mg/L	0.500
Nitrate-N		5.13	mg/L	0.200
Total Dissolved Solids		3085	mg/L	10.00

Sample: 33441 - Dup

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		242	mg/L as CaCo3	4.00
Total Alkalinity		242	mg/L as CaCo3	4.00
Dissolved Calcium		50.7	mg/L	0.500
Dissolved Potassium		27.4	mg/L	0.500
Dissolved Magnesium		14.6	mg/L	0.500
Dissolved Sodium		292	mg/L	0.500
Chloride		330	mg/L	0.500
Fluoride		1.04	mg/L	0.200
Sulfate		152	mg/L	0.500
Nitrate-N		5.75	mg/L	0.200
Total Dissolved Solids		1168	mg/L	10.00

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Cindy Crain

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: Chev Tx/ GL Erwin

Project Number: 0-0112

Location: None Given

Lab Order Number: 4H05001

Report Date: 08/17/04

Larson & Associates, Inc.	Project: Chev Tx/ GL Erwin	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 0-0112	**Reported:**
Midland TX, 79710	Project Manager: Cindy Crain	08/17/04 15:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-7	4H05001-01	Water	08/03/04 09:19	08/04/04 17:33
MW-2	4H05001-02	Water	08/03/04 09:40	08/04/04 17:33
MW-1	4H05001-03	Water	08/03/04 10:04	08/04/04 17:33
MW-5	4H05001-04	Water	08/03/04 10:24	08/04/04 17:33
MW-3	4H05001-05	Water	08/03/04 10:43	08/04/04 17:33
MW-6	4H05001-06	Water	08/03/04 11:07	08/04/04 17:33
MW-9	4H05001-07	Water	08/03/04 11:52	08/04/04 17:33
W-MW	4H05001-08	Water	08/03/04 12:18	08/04/04 17:33
SW-MW	4H05001-09	Water	08/03/04 12:38	08/04/04 17:33
MW-4	4H05001-10	Water	08/03/04 13:13	08/04/04 17:33
MW-10	4H05001-11	Water	08/03/04 13:25	08/04/04 17:33
MW-13	4H05001-12	Water	08/03/04 13:29	08/04/04 17:33
MW-16	4H05001-13	Water	08/03/04 13:38	08/04/04 17:33
MW-12	4H05001-14	Water	08/03/04 13:45	08/04/04 17:33
Dup	4H05001-15	Water	08/03/04 00:00	08/04/04 17:33

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Larson & Associates, Inc.	Project: Chev Tx/ GL Erwin	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 0-0112	**Reported:**
Midland TX, 79710	Project Manager: Cindy Crain	08/17/04 15:58

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (4H05001-01) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41012	08/05/04	08/05/04	EPA 310.2M	
Bicarbonate Alkalinity	**248**	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	**328**	5.00	"	"	EH40915	08/09/04	08/09/04	EPA 325.3M	
Total Dissolved Solids	**734**	5.00	"	"	EH41307	08/10/04	08/11/04	EPA 160.1	
Sulfate	**126**	1.25	"	2.5	EH40515	08/05/04	08/05/04	EPA 375.4	
MW-2 (4H05001-02) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41012	08/05/04	08/05/04	EPA 310.2M	
Bicarbonate Alkalinity	**236**	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	**496**	5.00	"	"	EH40915	08/09/04	08/09/04	EPA 325.3M	
Total Dissolved Solids	**811**	5.00	"	"	EH41307	08/10/04	08/11/04	EPA 160.1	
Sulfate	**144**	1.25	"	2.5	EH40515	08/05/04	08/05/04	EPA 375.4	
MW-1 (4H05001-03) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41012	08/05/04	08/05/04	EPA 310.2M	
Bicarbonate Alkalinity	**155**	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	**222**	5.00	"	"	EH40915	08/09/04	08/09/04	EPA 325.3M	
Total Dissolved Solids	**431**	5.00	"	"	EH41307	08/10/04	08/11/04	EPA 160.1	
Sulfate	**83.2**	0.835	"	1.67	EH40515	08/05/04	08/05/04	EPA 375.4	
MW-5 (4H05001-04) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41012	08/05/04	08/05/04	EPA 310.2M	
Bicarbonate Alkalinity	**229**	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	**461**	5.00	"	"	EH40915	08/09/04	08/09/04	EPA 325.3M	
Total Dissolved Solids	**968**	5.00	"	"	EH41307	08/10/04	08/11/04	EPA 160.1	
Sulfate	**155**	1.25	"	2.5	EH40515	08/05/04	08/05/04	EPA 375.4	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Larson & Associates, Inc.	Project: Chev Tx/ GL Erwin	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 0-0112	**Reported:**
Midland TX, 79710	Project Manager: Cindy Crain	08/17/04 15:58

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (4H05001-05) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41012	08/05/04	08/05/04	EPA 310.2M	
Bicarbonate Alkalinity	**291**	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	**798**	5.00	"	"	EH40915	08/09/04	08/09/04	EPA 325.3M	
Total Dissolved Solids	**1640**	5.00	"	"	EH41307	08/10/04	08/11/04	EPA 160.1	
Sulfate	**155**	1.25	"	2.5	EH40515	08/05/04	08/05/04	EPA 375.4	
MW-6 (4H05001-06) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41012	08/05/04	08/05/04	EPA 310.2M	
Bicarbonate Alkalinity	**260**	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	**718**	5.00	"	"	EH40915	08/09/04	08/09/04	EPA 325.3M	
Total Dissolved Solids	**1430**	5.00	"	"	EH41307	08/10/04	08/11/04	EPA 160.1	
Sulfate	**240**	3.15	"	6.3	EH41306	08/11/04	08/11/04	EPA 375.4	
MW-9 (4H05001-07) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41012	08/05/04	08/05/04	EPA 310.2M	
Bicarbonate Alkalinity	**110**	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	**691**	5.00	"	"	EH40915	08/09/04	08/09/04	EPA 325.3M	
Total Dissolved Solids	**1530**	5.00	"	"	EH41307	08/10/04	08/11/04	EPA 160.1	
Sulfate	**115**	0.850	"	1.7	EH41306	08/11/04	08/11/04	EPA 375.4	
W-MW (4H05001-08) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41012	08/05/04	08/05/04	EPA 310.2M	
Bicarbonate Alkalinity	**186**	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	**337**	5.00	"	"	EH40915	08/09/04	08/09/04	EPA 325.3M	
Total Dissolved Solids	**717**	5.00	"	"	EH41307	08/10/04	08/11/04	EPA 160.1	
Sulfate	**147**	1.25	"	2.5	EH41306	08/11/04	08/11/04	EPA 375.4	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Larson & Associates, Inc.	Project: Chev Tx/ GL Erwin	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 0-0112	**Reported:**
Midland TX, 79710	Project Manager: Cindy Crain	08/17/04 15:58

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-MW (4H05001-09) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41012	08/05/04	08/05/04	EPA 310.2M	
Bicarbonate Alkalinity	**276**	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	**1400**	5.00	"	"	EH40915	08/09/04	08/09/04	EPA 325.3M	
Total Dissolved Solids	**2550**	5.00	"	"	EH41307	08/10/04	08/11/04	EPA 160.1	
Sulfate	**264**	2.10	"	4.2	EH41306	08/11/04	08/11/04	EPA 375.4	
MW-4 (4H05001-10) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41012	08/05/04	08/05/04	EPA 310.2M	
Bicarbonate Alkalinity	**150**	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	**2730**	5.00	"	"	EH40915	08/09/04	08/09/04	EPA 325.3M	
Total Dissolved Solids	**6810**	5.00	"	"	EH41307	08/10/04	08/11/04	EPA 160.1	
Sulfate	**125**	1.25	"	2.5	EH41306	08/11/04	08/11/04	EPA 375.4	
MW-10 (4H05001-11) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41012	08/05/04	08/05/04	EPA 310.2M	
Bicarbonate Alkalinity	**144**	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	**328**	5.00	"	"	EH40915	08/09/04	08/09/04	EPA 325.3M	
Total Dissolved Solids	**796**	5.00	"	"	EH41307	08/10/04	08/11/04	EPA 160.1	
Sulfate	**118**	0.850	"	1.7	EH41306	08/11/04	08/11/04	EPA 375.4	
MW-13 (4H05001-12) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41012	08/05/04	08/05/04	EPA 310.2M	
Bicarbonate Alkalinity	**95.0**	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	**532**	5.00	"	"	EH40915	08/09/04	08/09/04	EPA 325.3M	
Total Dissolved Solids	**1410**	5.00	"	"	EH41307	08/10/04	08/11/04	EPA 160.1	
Sulfate	**116**	0.850	"	1.7	EH41306	08/11/04	08/11/04	EPA 375.4	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-16 (4H05001-13) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41012	08/05/04	08/05/04	EPA 310.2M	
Bicarbonate Alkalinity	**158**	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	**1010**	5.00	"	"	EH40915	08/09/04	08/09/04	EPA 325.3M	
Total Dissolved Solids	**2560**	5.00	"	"	EH41307	08/10/04	08/11/04	EPA 160.1	
Sulfate	**159**	1.25	"	2.5	EH41306	08/11/04	08/11/04	EPA 375.4	
MW-12 (4H05001-14) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41012	08/05/04	08/05/04	EPA 310.2M	
Bicarbonate Alkalinity	**66.0**	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	**1680**	5.00	"	"	EH40915	08/09/04	08/09/04	EPA 325.3M	
Total Dissolved Solids	**4300**	5.00	"	"	EH41307	08/10/04	08/11/04	EPA 160.1	
Sulfate	**55.2**	0.500	"	"	EH41306	08/11/04	08/11/04	EPA 375.4	
Dup (4H05001-15) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41012	08/05/04	08/05/04	EPA 310.2M	
Bicarbonate Alkalinity	**158**	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	**301**	5.00	"	"	EH40915	08/09/04	08/09/04	EPA 325.3M	
Total Dissolved Solids	**605**	5.00	"	"	EH41307	08/10/04	08/11/04	EPA 160.1	
Sulfate	**104**	0.850	"	1.7	EH41306	08/11/04	08/11/04	EPA 375.4	

Larson & Associates, Inc.	Project: Chev Tx/ GL Erwin	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 0-0112	**Reported:**
Midland TX, 79710	Project Manager: Cindy Crain	08/17/04 15:58

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (4H05001-01) Water									
Calcium	**22.8**	0.100	mg/L	10	EH41309	08/13/04	08/16/04	EPA 6010B	
Magnesium	**12.1**	0.0100	"	"	"	"	"	"	
Potassium	**7.55**	0.500	"	"	"	"	"	"	
Sodium	**436**	1.00	"	100	"	"	"	"	
MW-2 (4H05001-02) Water									
Calcium	**50.8**	0.100	mg/L	10	EH41309	08/13/04	08/16/04	EPA 6010B	
Magnesium	**34.7**	0.0100	"	"	"	"	"	"	
Potassium	**11.0**	0.500	"	"	"	"	"	"	
Sodium	**472**	1.00	"	100	"	"	"	"	
MW-1 (4H05001-03) Water									
Calcium	**64.1**	0.100	mg/L	10	EH41309	08/13/04	08/16/04	EPA 6010B	
Magnesium	**30.8**	0.0100	"	"	"	"	"	"	
Potassium	**6.41**	0.500	"	"	"	"	"	"	
Sodium	**127**	1.00	"	100	"	"	"	"	
MW-5 (4H05001-04) Water									
Calcium	**47.9**	0.100	mg/L	10	EH41309	08/13/04	08/16/04	EPA 6010B	
Magnesium	**31.3**	0.0100	"	"	"	"	"	"	
Potassium	**31.1**	0.500	"	"	"	"	"	"	
Sodium	**435**	1.00	"	100	"	"	"	"	
MW-3 (4H05001-05) Water									
Calcium	**21.5**	0.100	mg/L	10	EH41309	08/13/04	08/16/04	EPA 6010B	
Magnesium	**16.7**	0.0100	"	"	"	"	"	"	
Potassium	**25.8**	0.500	"	"	"	"	"	"	
Sodium	**794**	1.00	"	100	"	"	"	"	

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Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (4H05001-06) Water									
Calcium	**22.7**	0.100	mg/L	10	EH41309	08/13/04	08/16/04	EPA 6010B	
Magnesium	**21.7**	0.0100	"	"	"	"	"	"	
Potassium	**21.7**	0.500	"	"	"	"	"	"	
Sodium	**825**	1.00	"	100	"	"	"	"	
MW-9 (4H05001-07) Water									
Calcium	**184**	1.00	mg/L	100	EH41309	08/13/04	08/16/04	EPA 6010B	
Magnesium	**62.9**	0.0100	"	10	"	"	"	"	
Potassium	**10.5**	0.500	"	"	"	"	"	"	
Sodium	**279**	1.00	"	100	"	"	"	"	
W-MW (4H05001-08) Water									
Calcium	**41.7**	0.100	mg/L	10	EH41309	08/13/04	08/16/04	EPA 6010B	
Magnesium	**20.1**	0.0100	"	"	"	"	"	"	
Potassium	**49.1**	0.500	"	"	"	"	"	"	
Sodium	**297**	1.00	"	100	"	"	"	"	
SW-MW (4H05001-09) Water									
Calcium	**75.1**	0.100	mg/L	10	EH41309	08/13/04	08/16/04	EPA 6010B	
Magnesium	**45.2**	0.0100	"	"	"	"	"	"	
Potassium	**82.4**	0.500	"	"	"	"	"	"	
Sodium	**1660**	10.0	"	1000	"	"	"	"	
MW-4 (4H05001-10) Water									
Calcium	**632**	1.00	mg/L	100	EH41309	08/13/04	08/16/04	EPA 6010B	
Magnesium	**191**	0.100	"	"	"	"	"	"	
Potassium	**124**	5.00	"	"	"	"	"	"	
Sodium	**832**	10.0	"	1000	"	"	"	"	

Larson & Associates, Inc.	Project: Chev Tx/ GL Erwin	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 0-0112	**Reported:**
Midland TX, 79710	Project Manager: Cindy Crain	08/17/04 15:58

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10 (4H05001-11) Water									
Calcium	**106**	1.00	mg/L	100	EH41309	08/13/04	08/16/04	EPA 6010B	
Magnesium	**49.5**	0.0100	"	10	"	"	"	"	
Potassium	**7.70**	0.500	"	"	"	"	"	"	
Sodium	**106**	1.00	"	100	"	"	"	"	
MW-13 (4H05001-12) Water									
Calcium	**225**	1.00	mg/L	100	EH41309	08/13/04	08/16/04	EPA 6010B	
Magnesium	**77.3**	0.0100	"	10	"	"	"	"	
Potassium	**15.0**	0.500	"	"	"	"	"	"	
Sodium	**111**	1.00	"	100	"	"	"	"	
MW-16 (4H05001-13) Water									
Calcium	**250**	1.00	mg/L	100	EH41309	08/13/04	08/16/04	EPA 6010B	
Magnesium	**87.5**	0.0100	"	10	"	"	"	"	
Potassium	**13.5**	0.500	"	"	"	"	"	"	
Sodium	**382**	1.00	"	100	"	"	"	"	
MW-12 (4H05001-14) Water									
Calcium	**680**	1.00	mg/L	100	EH41309	08/13/04	08/16/04	EPA 6010B	
Magnesium	**252**	0.100	"	"	"	"	"	"	
Potassium	**31.1**	0.500	"	10	"	"	"	"	
Sodium	**211**	1.00	"	100	"	"	"	"	
Dup (4H05001-15) Water									
Calcium	**101**	1.00	mg/L	100	EH41309	08/13/04	08/16/04	EPA 6010B	
Magnesium	**45.5**	0.0100	"	10	"	"	"	"	
Potassium	**672**	5.00	"	100	"	"	"	"	
Sodium	**436**	1.00	"	"	"	"	"	"	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH40515 - General Preparation (WetChem)										
Blank (EH40515-BLK1)				Prepared & Analyzed: 08/05/04						
Sulfate	ND	0.500	mg/L							
Calibration Check (EH40515-CCV1)				Prepared & Analyzed: 08/05/04						
Sulfate	51.7		mg/L	50.0		103	80-120			
Duplicate (EH40515-DUP1)		Source: 4G29014-01		Prepared & Analyzed: 08/05/04						
Sulfate	303	2.50	mg/L		286			5.77	20	
Batch EH40915 - General Preparation (WetChem)										
Blank (EH40915-BLK1)				Prepared & Analyzed: 08/09/04						
Chloride	ND	5.00	mg/L							
Blank (EH40915-BLK2)				Prepared & Analyzed: 08/09/04						
Chloride	ND	5.00	mg/L							
Blank (EH40915-BLK3)				Prepared & Analyzed: 08/09/04						
Chloride	ND	5.00	mg/L							
Matrix Spike (EH40915-MS1)		Source: 4H05001-01		Prepared & Analyzed: 08/09/04						
Chloride	851	5.00	mg/L	500	328	105	80-120			
Matrix Spike (EH40915-MS2)		Source: 4H05001-15		Prepared & Analyzed: 08/09/04						
Chloride	815	5.00	mg/L	500	301	103	80-120			
Matrix Spike (EH40915-MS3)		Source: 4H09004-04		Prepared & Analyzed: 08/09/04						
Chloride	1110	5.00	mg/L	500	647	92.6	80-120			

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH40915 - General Preparation (WetChem)										
Matrix Spike Dup (EH40915-MSD1)		**Source: 4H05001-01**		Prepared & Analyzed: 08/09/04						
Chloride	833	5.00	mg/L	500	328	101	80-120	2.14	20	
Matrix Spike Dup (EH40915-MSD2)		**Source: 4H05001-15**		Prepared & Analyzed: 08/09/04						
Chloride	798	5.00	mg/L	500	301	99.4	80-120	2.11	20	
Matrix Spike Dup (EH40915-MSD3)		**Source: 4H09004-04**		Prepared & Analyzed: 08/09/04						
Chloride	1130	5.00	mg/L	500	647	96.6	80-120	1.79	20	
Reference (EH40915-SRM1)				Prepared & Analyzed: 08/09/04						
Chloride	5140		mg/L	5000		103	80-120			
Reference (EH40915-SRM2)				Prepared & Analyzed: 08/09/04						
Chloride	4960		mg/L	5000		99.2	80-120			
Reference (EH40915-SRM3)				Prepared & Analyzed: 08/09/04						
Chloride	4960		mg/L	5000		99.2	80-120			
Batch EH41012 - General Preparation (WetChem)										
Blank (EH41012-BLK1)				Prepared & Analyzed: 08/05/04						
Carbonate Alkalinity	ND	0.100	mg/L							
Bicarbonate Alkalinity	ND	2.00	"							
Hydroxide Alkalinity	ND	0.100	"							
Blank (EH41012-BLK2)				Prepared & Analyzed: 08/05/04						
Carbonate Alkalinity	ND	0.100	mg/L							
Bicarbonate Alkalinity	ND	2.00	"							
Hydroxide Alkalinity	ND	0.100	"							

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH41012 - General Preparation (WetChem)										
Duplicate (EH41012-DUP1)		**Source: 4H05001-03**		Prepared & Analyzed: 08/05/04						
Carbonate Alkalinity	0.00	0.100	mg/L		0.00				20	
Bicarbonate Alkalinity	159	2.00	"		155			2.55	20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	
Duplicate (EH41012-DUP2)		**Source: 4H05002-06**		Prepared & Analyzed: 08/05/04						
Carbonate Alkalinity	0.00	0.100	mg/L		0.00				20	
Bicarbonate Alkalinity	286	2.00	"		288			0.697	20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	
Reference (EH41012-SRM1)				Prepared & Analyzed: 08/05/04						
Carbonate Alkalinity	0.0524		mg/L	0.0500		105	80-120			
Reference (EH41012-SRM2)				Prepared & Analyzed: 08/05/04						
Carbonate Alkalinity	0.0513		mg/L	0.0500		103	80-120			
Batch EH41306 - General Preparation (WetChem)										
Blank (EH41306-BLK1)				Prepared & Analyzed: 08/11/04						
Sulfate	ND	0.500	mg/L							
Calibration Check (EH41306-CCV1)				Prepared & Analyzed: 08/11/04						
Sulfate	53.6		mg/L	50.0		107	80-120			
Duplicate (EH41306-DUP1)		**Source: 4H05001-06**		Prepared & Analyzed: 08/11/04						
Sulfate	259	3.15	mg/L		240			7.62	20	

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH41307 - Filtration Preparation										
Blank (EH41307-BLK1)				Prepared: 08/10/04 Analyzed: 08/11/04						
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EH41307-DUP1)		**Source: 4H05001-01**		Prepared: 08/10/04 Analyzed: 08/11/04						
Total Dissolved Solids	722	5.00	mg/L		734			1.65	20	

Total Metals by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH41309 - General Preparation (Metals)										
Blank (EH41309-BLK1)				Prepared: 08/13/04 Analyzed: 08/16/04						
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							
Calibration Check (EH41309-CCV1)				Prepared: 08/13/04 Analyzed: 08/16/04						
Calcium	1.90		mg/L	2.00		95.0	85-115			
Magnesium	2.09		"	2.00		104	85-115			
Potassium	1.76		"	2.00		88.0	85-115			
Sodium	1.84		"	2.00		92.0	85-115			
Duplicate (EH41309-DUP1)	**Source: 4H05001-15**			Prepared: 08/13/04 Analyzed: 08/16/04						
Calcium	102	1.00	mg/L		101			0.985	20	
Magnesium	45.8	0.0100	"		45.5			0.657	20	
Potassium	680	5.00	"		672			1.18	20	
Sodium	444	1.00	"		436			1.82	20	

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K. Tuttle Date: 8-17-04

Raland K. Tuttle, QA Officer
Celey D. Keene, Lab Director, Org. Tech Director
Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sara Molina, Chemist
Sandra Biezugbe, Lab Tech.

Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In

Client: Larson & Associates

Date/Time: 08-05-04 @ 0800

Order #: 4H05001

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	-1.5 C
Shipping container/cooler in good condition?	(Yes)	No	
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	
Sample Instructions complete on Chain of Custody?	(Yes)	No	
Chain of Custody signed when relinquished and received?	(Yes)	No	
Chain of custody agrees with sample label(s)	(Yes)	No	
Container labels legible and intact?	(Yes)	No	
Sample Matrix and properties same as on chain of custody?	(Yes)	No	
Samples in proper container/bottle?	(Yes)	No	
Samples properly preserved?	(Yes)	No	
Sample bottles intact?	(Yes)	No	
Preservations documented on Chain of Custody?	(Yes)	No	
Containers documented on Chain of Custody?	(Yes)	No	
Sufficient sample amount for indicated test?	(Yes)	No	
All samples received within sufficient hold time?	(Yes)	No	
VOC samples have zero headspace?	Yes	No	(Not Applicable)

Other observations:

_____

_____

_____

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____

Regarding:

_____

_____

_____

Corrective Action Taken:

_____

_____

_____

_____

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CHAIN—OF—CUSTODY RECORD

Larson & Associates, Inc.
Environmental Consultants
Fax: 432-687-0456
432-687-0901
507 N. Marienfeld, Ste. 202 • Midland, TX 79701

CLIENT NAME: Chevron TX

SITE MANAGER: Cindy Crain

PROJECT NO.: 0-0112

PROJECT NAME: GL Erwin

PAGE 1 OF 2

LAB. PO #

PARAMETERS/METHOD NUMBER: TDS, Cations, Anions

DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)
9/3	0919	✓			MW-7	1	4H05001-01	
	0940				MW-2		-02	
	1004				MW-1		-03	
	1024				MW-5		-04	
	1043				MW-3		-05	
	1107				MW-6		-06	
	1152				MW-9		-07	
	1218				W-MW		-08	
	1238				SW-MW		-09	
	1313				MW-4		-10	
	1325				MW-10		-11	
	1329				MW-13		-12	
	1338				MW-11		-13	
	1345				MW-12		-14	
9/3					Dup 1		4H05001-15	

SAMPLED BY: (Signature) DATE: 9/3/04 TIME: 1358

RELINQUISHED BY: (Signature) DATE: 9/4/04 TIME: 1733

RECEIVED BY: (Signature) DATE: TIME:

RELINQUISHED BY: (Signature) DATE: TIME:

RECEIVED BY: (Signature) DATE: TIME:

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

COMMENTS:

TURNAROUND TIME NEEDED: Standard

WHITE – RECEIVING LAB
YELLOW – RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)
PINK – PROJECT MANAGER
GOLD – QA/QC COORDINATOR

RECEIVING LABORATORY: ELOT
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:

RECEIVED BY: (Signature) Cindy Crain
DATE: 9/4/04 TIME: 17:33

SAMPLE CONDITION WHEN RECEIVED: -1.5°C 1 HDPE on ice

LA CONTACT PERSON: Cindy Crain

SAMPLE TYPE:

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Cindy Crain

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: Chev Tx/ GL Erwin

Project Number: 0-0112

Location: None Given

Lab Order Number: 4H05002

Report Date: 08/17/04

Larson & Associates, Inc.	Project: Chev Tx/ GL Erwin	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 0-0112	**Reported:**
Midland TX, 79710	Project Manager: Cindy Crain	08/17/04 15:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-17	4H05002-01	Water	08/04/04 09:03	08/04/04 17:33
MW-8	4H05002-02	Water	08/04/04 09:25	08/04/04 17:33
MW-14	4H05002-03	Water	08/04/04 09:47	08/04/04 17:33
RW-1	4H05002-04	Water	08/04/04 10:53	08/04/04 17:33
WW-1	4H05002-05	Water	08/04/04 11:39	08/04/04 17:33
Dup	4H05002-06	Water	08/04/04 17:33	08/04/04 17:33

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-17 (4H05002-01) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41012	08/05/04	08/05/04	EPA 310.2M	
Bicarbonate Alkalinity	**141**	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	**638**	5.00	"	"	EH40915	08/09/04	08/09/04	EPA 325.3M	
Total Dissolved Solids	**1660**	5.00	"	"	EH41307	08/10/04	08/11/04	EPA 160.1	
Sulfate	**132**	1.25	"	2.5	EH41306	08/11/04	08/11/04	EPA 375.4	
MW-8 (4H05002-02) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41012	08/05/04	08/05/04	EPA 310.2M	
Bicarbonate Alkalinity	**246**	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	**771**	5.00	"	"	EH40915	08/09/04	08/09/04	EPA 325.3M	
Total Dissolved Solids	**1530**	5.00	"	"	EH41307	08/10/04	08/11/04	EPA 160.1	
Sulfate	**222**	2.50	"	5	EH41306	08/11/04	08/11/04	EPA 375.4	
MW-14 (4H05002-03) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41012	08/05/04	08/05/04	EPA 310.2M	
Bicarbonate Alkalinity	**78.0**	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	**4430**	5.00	"	"	EH40915	08/09/04	08/09/04	EPA 325.3M	
Total Dissolved Solids	**11500**	5.00	"	"	EH41307	08/10/04	08/11/04	EPA 160.1	
Sulfate	**895**	12.5	"	25	EH41306	08/11/04	08/11/04	EPA 375.4	
RW-1 (4H05002-04) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41012	08/05/04	08/05/04	EPA 310.2M	
Bicarbonate Alkalinity	**284**	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	**1120**	5.00	"	"	EH40915	08/09/04	08/09/04	EPA 325.3M	
Total Dissolved Solids	**2250**	5.00	"	"	EH41307	08/10/04	08/11/04	EPA 160.1	
Sulfate	**290**	2.50	"	5	EH41306	08/11/04	08/11/04	EPA 375.4	

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WW-1 (4H05002-05) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41012	08/05/04	08/05/04	EPA 310.2M	
Bicarbonate Alkalinity	**132**	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	**222**	5.00	"	"	EH40915	08/09/04	08/09/04	EPA 325.3M	
Total Dissolved Solids	**471**	5.00	"	"	EH41307	08/10/04	08/11/04	EPA 160.1	
Sulfate	**114**	0.850	"	1.7	EH41306	08/11/04	08/11/04	EPA 375.4	
Dup (4H05002-06) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41012	08/05/04	08/05/04	EPA 310.2M	
Bicarbonate Alkalinity	**288**	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	**1130**	5.00	"	"	EH40915	08/09/04	08/09/04	EPA 325.3M	
Total Dissolved Solids	**2550**	5.00	"	"	EH41313	08/11/04	08/12/04	EPA 160.1	
Sulfate	**274**	2.50	"	5	EH41306	08/11/04	08/11/04	EPA 375.4	

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-17 (4H05002-01) Water									
Calcium	**207**	1.00	mg/L	100	EH41317	08/13/04	08/16/04	EPA 6010B	
Magnesium	**81.0**	0.0100	"	10	"	"	"	"	
Potassium	**12.7**	0.500	"	"	"	"	"	"	
Sodium	**221**	1.00	"	100	"	"	"	"	
MW-8 (4H05002-02) Water									
Calcium	**28.6**	0.100	mg/L	10	EH41317	08/13/04	08/16/04	EPA 6010B	
Magnesium	**21.5**	0.0100	"	"	"	"	"	"	
Potassium	**11.0**	0.500	"	"	"	"	"	"	
Sodium	**707**	1.00	"	100	"	"	"	"	
MW-14 (4H05002-03) Water									
Calcium	**1350**	10.0	mg/L	1000	EH41317	08/13/04	08/16/04	EPA 6010B	
Magnesium	**455**	0.100	"	100	"	"	"	"	
Potassium	**60.3**	0.500	"	10	"	"	"	"	
Sodium	**1220**	10.0	"	1000	"	"	"	"	
RW-1 (4H05002-04) Water									
Calcium	**44.8**	0.100	mg/L	10	EH41317	08/13/04	08/16/04	EPA 6010B	
Magnesium	**33.0**	0.0100	"	"	"	"	"	"	
Potassium	**86.9**	0.500	"	"	"	"	"	"	
Sodium	**785**	10.0	"	1000	"	"	"	"	
WW-1 (4H05002-05) Water									
Calcium	**92.3**	0.100	mg/L	10	EH41317	08/13/04	08/16/04	EPA 6010B	
Magnesium	**37.9**	0.0100	"	"	"	"	"	"	
Potassium	**9.89**	0.500	"	"	"	"	"	"	
Sodium	**139**	1.00	"	100	"	"	"	"	

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dup (4H05002-06) Water									
Calcium	**45.0**	0.100	mg/L	10	EH41317	08/13/04	08/16/04	EPA 6010B	
Magnesium	**31.6**	0.0100	"	"	"	"	"	"	
Potassium	**84.0**	0.500	"	"	"	"	"	"	
Sodium	**961**	1.00	"	100	"	"	"	"	

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH40915 - General Preparation (WetChem)										
Blank (EH40915-BLK1)				Prepared & Analyzed: 08/09/04						
Chloride	ND	5.00	mg/L							
Blank (EH40915-BLK2)				Prepared & Analyzed: 08/09/04						
Chloride	ND	5.00	mg/L							
Blank (EH40915-BLK3)				Prepared & Analyzed: 08/09/04						
Chloride	ND	5.00	mg/L							
Matrix Spike (EH40915-MS1)	**Source: 4H05001-01**			Prepared & Analyzed: 08/09/04						
Chloride	851	5.00	mg/L	500	328	105	80-120			
Matrix Spike (EH40915-MS2)	**Source: 4H05001-15**			Prepared & Analyzed: 08/09/04						
Chloride	815	5.00	mg/L	500	301	103	80-120			
Matrix Spike (EH40915-MS3)	**Source: 4H09004-04**			Prepared & Analyzed: 08/09/04						
Chloride	1110	5.00	mg/L	500	647	92.6	80-120			
Matrix Spike Dup (EH40915-MSD1)	**Source: 4H05001-01**			Prepared & Analyzed: 08/09/04						
Chloride	833	5.00	mg/L	500	328	101	80-120	2.14	20	
Matrix Spike Dup (EH40915-MSD2)	**Source: 4H05001-15**			Prepared & Analyzed: 08/09/04						
Chloride	798	5.00	mg/L	500	301	99.4	80-120	2.11	20	
Matrix Spike Dup (EH40915-MSD3)	**Source: 4H09004-04**			Prepared & Analyzed: 08/09/04						
Chloride	1130	5.00	mg/L	500	647	96.6	80-120	1.79	20	
Reference (EH40915-SRM1)				Prepared & Analyzed: 08/09/04						
Chloride	5140		mg/L	5000		103	80-120			

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH40915 - General Preparation (WetChem)										
Reference (EH40915-SRM2)				Prepared & Analyzed: 08/09/04						
Chloride	4960		mg/L	5000		99.2	80-120			
Reference (EH40915-SRM3)				Prepared & Analyzed: 08/09/04						
Chloride	4960		mg/L	5000		99.2	80-120			
Batch EH41012 - General Preparation (WetChem)										
Blank (EH41012-BLK1)				Prepared & Analyzed: 08/05/04						
Carbonate Alkalinity	ND	0.100	mg/L							
Bicarbonate Alkalinity	ND	2.00	"							
Hydroxide Alkalinity	ND	0.100	"							
Blank (EH41012-BLK2)				Prepared & Analyzed: 08/05/04						
Carbonate Alkalinity	ND	0.100	mg/L							
Bicarbonate Alkalinity	ND	2.00	"							
Hydroxide Alkalinity	ND	0.100	"							
Duplicate (EH41012-DUP1)		**Source: 4H05001-03**		Prepared & Analyzed: 08/05/04						
Carbonate Alkalinity	0.00	0.100	mg/L		0.00				20	
Bicarbonate Alkalinity	159	2.00	"		155			2.55	20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	
Duplicate (EH41012-DUP2)		**Source: 4H05002-06**		Prepared & Analyzed: 08/05/04						
Carbonate Alkalinity	0.00	0.100	mg/L		0.00				20	
Bicarbonate Alkalinity	286	2.00	"		288			0.697	20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH41012 - General Preparation (WetChem)										
Reference (EH41012-SRM1)				Prepared & Analyzed: 08/05/04						
Carbonate Alkalinity	0.0524		mg/L	0.0500		105	80-120			
Reference (EH41012-SRM2)				Prepared & Analyzed: 08/05/04						
Carbonate Alkalinity	0.0513		mg/L	0.0500		103	80-120			
Batch EH41306 - General Preparation (WetChem)										
Blank (EH41306-BLK1)				Prepared & Analyzed: 08/11/04						
Sulfate	ND	0.500	mg/L							
Calibration Check (EH41306-CCV1)				Prepared & Analyzed: 08/11/04						
Sulfate	53.6		mg/L	50.0		107	80-120			
Duplicate (EH41306-DUP1)		**Source: 4H05001-06**		Prepared & Analyzed: 08/11/04						
Sulfate	259	3.15	mg/L		240			7.62	20	
Batch EH41307 - Filtration Preparation										
Blank (EH41307-BLK1)				Prepared: 08/10/04 Analyzed: 08/11/04						
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EH41307-DUP1)		**Source: 4H05001-01**		Prepared: 08/10/04 Analyzed: 08/11/04						
Total Dissolved Solids	722	5.00	mg/L		734			1.65	20	
Batch EH41313 - Filtration Preparation										
Blank (EH41313-BLK1)				Prepared: 08/11/04 Analyzed: 08/12/04						
Total Dissolved Solids	ND	5.00	mg/L							

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH41313 - Filtration Preparation										
Duplicate (EH41313-DUP1)	**Source: 4H05002-06**			Prepared: 08/11/04 Analyzed: 08/12/04						
Total Dissolved Solids	2540	5.00	mg/L		2550			0.393	20	

Total Metals by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH41317 - General Preparation (Metals)										
Blank (EH41317-BLK1)				Prepared: 08/13/04 Analyzed: 08/16/04						
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							
Calibration Check (EH41317-CCV1)				Prepared: 08/13/04 Analyzed: 08/16/04						
Calcium	1.93		mg/L	2.00		96.5	85-115			
Magnesium	2.11		"	2.00		106	85-115			
Potassium	1.76		"	2.00		88.0	85-115			
Sodium	1.89		"	2.00		94.5	85-115			
Duplicate (EH41317-DUP1)	**Source: 4H05002-02**			Prepared: 08/13/04 Analyzed: 08/16/04						
Calcium	28.7	0.100	mg/L		28.6			0.349	20	
Magnesium	21.6	0.0100	"		21.5			0.464	20	
Potassium	11.5	0.500	"		11.0			4.44	20	
Sodium	692	1.00	"		707			2.14	20	

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 8-18-04

Raland K. Tuttle, QA Officer
Celey D. Keene, Lab Director, Org. Tech Director
Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sara Molina, Chemist
Sandra Biezugbe, Lab Tech.

Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In

Client: Larson + Associates

Date/Time: 08-05-04 @ 0800

Order #: 411 05002

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	-1.5 C
Shipping container/cooler in good condition?	(Yes)	No	
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	
Sample Instructions complete on Chain of Custody?	(Yes)	No	
Chain of Custody signed when relinquished and received?	(Yes)	No	
Chain of custody agrees with sample label(s)	(Yes)	No	
Container labels legible and intact?	(Yes)	No	
Sample Matrix and properties same as on chain of custody?	(Yes)	No	
Samples in proper container/bottle?	(Yes)	No	
Samples properly preserved?	(Yes)	No	
Sample bottles intact?	(Yes)	No	
Preservations documented on Chain of Custody?	(Yes)	No	
Containers documented on Chain of Custody?	(Yes)	No	
Sufficient sample amount for indicated test?	(Yes)	No	
All samples received within sufficient hold time?	(Yes)	No	
VOC samples have zero headspace?	Yes	No	(Not Applicable)

Other observations:

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Variance Documentation:

Contact Person: -_____ Date/Time: _____ Contacted by: _____

Regarding:

_____

_____

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Corrective Action Taken:

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CHAIN—OF—CUSTODY RECORD

LA Larson & Associates, Inc.
Environmental Consultants
Fax: 432-687-0456
432-687-0901
507 N. Marienfeld, Ste. 202 • Midland, TX 79701

CLIENT NAME: Chevlx
SITE MANAGER: Cindy Crain
PROJECT NO.: 0-0112
PROJECT NAME: G.L. Erwin
PAGE 2 OF 2
LAB. PO #

DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	PARAMETERS/METHOD NUMBER: TDS, Cations, Anions	LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)
8/4	0903				MW-17	1	1	4H05002-01	
	0925				MW-8			-02	
	0947				MW-14			-03	
	1053				RW-1			-04	
	1139				MW-1			-05	
					Dup #2			4H05002-06	

SAMPLED BY: (Signature) Tony Hill
DATE: 8/4/04
TIME: 1155

RELINQUISHED BY: (Signature) Tony Hill
DATE: 8/4/04
TIME: 1733

RECEIVED BY: (Signature)
DATE:
TIME:

RELINQUISHED BY: (Signature)
DATE:
TIME:

RECEIVED BY: (Signature)
DATE:
TIME:

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

COMMENTS:

TURNAROUND TIME NEEDED

WHITE – RECEIVING LAB
YELLOW – RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)
PINK – PROJECT MANAGER
GOLD – QA/QC COORDINATOR

RECEIVING LABORATORY: ELOT
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:

RECEIVED BY: (Signature) Celso Keene
DATE: 8/4/04 TIME: 17:33

SAMPLE CONDITION WHEN RECEIVED: -1.5°C L HDPE ON ICE

LA CONTACT PERSON: Cindy Crain

SAMPLE TYPE:

Summary Report

Cindy Crain
Larson and Associates, Inc.
P. O. Box 50685
Midland, Tx 79710

Report Date: December 14, 2004

Work Order: 4112412

Client Name: Chev TX
Project Name: G.L. Erwin
Project Number: 0-0112

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
49134	MW-19	water	2004-11-23	00:00	2004-11-24
49135	MW-20	water	2004-11-23	12:45	2004-11-24

Sample: 49134 - MW-19

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		86.0	mg/L as CaCo3	4.00
Total Alkalinity		86.0	mg/L as CaCo3	4.00
Dissolved Calcium		2020	mg/L	0.500
Dissolved Potassium		52.4	mg/L	0.500
Dissolved Magnesium		678	mg/L	0.500
Dissolved Sodium		1590	mg/L	0.500
Chloride		7000	mg/L	0.500
Fluoride		<10.0	mg/L	0.200
Sulfate		582	mg/L	0.500
Nitrate-N		17.3	mg/L	0.200
Total Dissolved Solids		12900	mg/L	10.00

Sample: 49135 - MW-20

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		82.0	mg/L as CaCo3	4.00
Total Alkalinity		82.0	mg/L as CaCo3	4.00
Dissolved Calcium		176	mg/L	0.500
Dissolved Potassium		13.6	mg/L	0.500
Dissolved Magnesium		62.6	mg/L	0.500
Dissolved Sodium		104	mg/L	0.500

continued ...

sample 49135 continued ...

Param	Flag	Result	Units	RL
Chloride		606	mg/L	0.500
Fluoride		2.49	mg/L	0.200
Sulfate		79.7	mg/L	0.500
Nitrate-N		2.90	mg/L	0.200
Total Dissolved Solids		985.0	mg/L	10.00

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Cindy Crain
Larson and Associates, Inc.
P. O. Box 50685
Midland, Tx 79710

Report Date: December 14, 2004

Work Order: 4112412

Client Name: Chev TX
Project Name: G.L. Erwin
Project Number: 0-0112

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
49134	MW-19	water	2004-11-23	00:00	2004-11-24
49135	MW-20	water	2004-11-23	12:45	2004-11-24

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

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 49134 - MW-19

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	14353	Date Analyzed:	2004-11-30	Analyzed By:	RS
Prep Batch:	12677	Date Prepared:	2004-11-30	Prepared By:	RS

Parameter	Flag	Result	RL	Units	Dilution	RL
Hydroxide Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		86.0		mg/L as CaCo3	1	4.00
Total Alkalinity		86.0		mg/L as CaCo3	1	4.00

Sample: 49134 - MW-19

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	14580	Date Analyzed:	2004-12-13	Analyzed By:	RR
Prep Batch:	12709	Date Prepared:	2004-12-01	Prepared By:	TP

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Calcium		2020		mg/L	100	0.500
Dissolved Potassium		52.4		mg/L	1	0.500
Dissolved Magnesium		678		mg/L	100	0.500
Dissolved Sodium		1590		mg/L	100	0.500

Sample: 49134 - MW-19

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	14298	Date Analyzed:	2004-11-29	Analyzed By:	WB
Prep Batch:	12630	Date Prepared:	2004-11-24	Prepared By:	WB

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		7000		mg/L	500	0.500
Fluoride		<10.0		mg/L	50	0.200
Sulfate		582		mg/L	50	0.500

Sample: 49134 - MW-19

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	14298	Date Analyzed:	2004-11-29	Analyzed By:	WB
Prep Batch:	12630	Date Prepared:	2004-11-24	Prepared By:	WB

Parameter	Flag	Result	RL	Units	Dilution	RL
Nitrate-N		17.3		mg/L	50	0.200

Sample: 49134 - MW-19

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	14368	Date Analyzed:	2004-12-01	Analyzed By:	WB
Prep Batch:	12692	Date Prepared:	2004-11-30	Prepared By:	WB

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Dissolved Solids		12900		mg/L	20	10.00

Sample: 49135 - MW-20

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	14353	Date Analyzed:	2004-11-30	Analyzed By:	RS
Prep Batch:	12677	Date Prepared:	2004-11-30	Prepared By:	RS

Parameter	Flag	Result	RL	Units	Dilution	RL
Hydroxide Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		82.0		mg/L as CaCo3	1	4.00
Total Alkalinity		82.0		mg/L as CaCo3	1	4.00

Sample: 49135 - MW-20

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	14580	Date Analyzed:	2004-12-13	Analyzed By:	RR
Prep Batch:	12709	Date Prepared:	2004-12-01	Prepared By:	TP

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Calcium		176		mg/L	10	0.500
Dissolved Potassium		13.6		mg/L	1	0.500
Dissolved Magnesium		62.6		mg/L	10	0.500
Dissolved Sodium		104		mg/L	10	0.500

Sample: 49135 - MW-20

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	14298	Date Analyzed:	2004-11-29	Analyzed By:	WB
Prep Batch:	12630	Date Prepared:	2004-11-24	Prepared By:	WB

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		606		mg/L	50	0.500
Fluoride		2.49		mg/L	5	0.200
Sulfate		79.7		mg/L	5	0.500

Sample: 49135 - MW-20

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	14298	Date Analyzed:	2004-11-29	Analyzed By:	WB
Prep Batch:	12630	Date Prepared:	2004-11-24	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		2.90	mg/L	5	0.200

Sample: 49135 - MW-20

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	14368	Date Analyzed:	2004-12-01	Analyzed By:	WB
Prep Batch:	12692	Date Prepared:	2004-11-30	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		985.0	mg/L	5	10.00

Method Blank (1) QC Batch: 14298

Parameter	Flag	Result	Units	RL
Nitrate-N		<0.200	mg/L	0.2

Method Blank (1) QC Batch: 14298

Parameter	Flag	Result	Units	RL
Chloride		<0.500	mg/L	0.5
Fluoride		<0.200	mg/L	0.2
Sulfate		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 14353

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

Method Blank (1) QC Batch: 14368

Parameter	Flag	Result	Units	RL
Total Dissolved Solids		<10.00	mg/L	10

Method Blank (1) QC Batch: 14580

Parameter	Flag	Result	Units	RL
Dissolved Calcium		<0.500	mg/L	0.5
Dissolved Potassium		<0.500	mg/L	0.5
Dissolved Magnesium		<0.500	mg/L	0.5
Dissolved Sodium		<0.500	mg/L	0.5

Duplicate (1) QC Batch: 14353

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Carbonate Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Bicarbonate Alkalinity	84.0	82.0	mg/L as CaCo3	1	2	20
Total Alkalinity	84.0	82.0	mg/L as CaCo3	1	2	4.2

Duplicate (1) QC Batch: 14368

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	1280	1250	mg/L	2	2	20

Laboratory Control Spike (LCS-1) QC Batch: 14298

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	2.50	2.50	mg/L	1	2.50	<0.0217	100	0	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 14298

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	12.3	12.1	mg/L	1	12.5	<0.337	98	2	90 - 110	20
Fluoride	2.60	2.42	mg/L	1	2.50	<0.0594	104	7	90 - 110	20
Sulfate	12.2	12.2	mg/L	1	12.5	<0.409	98	0	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 14580

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Dissolved Calcium	99.0	102	mg/L	1	100	<0.102	99	3	85 - 115	20
Dissolved Potassium	89.8	92.3	mg/L	1	100	<0.101	90	3	85 - 115	20
Dissolved Magnesium	98.5	99.6	mg/L	1	100	<0.110	98	1	85 - 115	20
Dissolved Sodium	88.7	91.1	mg/L	1	100	<0.120	89	3	85 - 115	20

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

Matrix Spike (MS-1) QC Batch: 14298 Spiked Sample: 49135

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	133	136	mg/L	50	2.50	14.9	94	2	70 - 117.8	20

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

Matrix Spike (MS-1) QC Batch: 14298 Spiked Sample: 49135

Param		MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride		1180	1180	mg/L	50	12.5	606	92	0	84.7 - 100.6	20
Fluoride	[1]	121	148	mg/L	50	2.50	9.31	89	20	79.4 - 107.2	20
Sulfate		705	716	mg/L	50	12.5	116	94	2	80.1 - 111.2	20

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

Matrix Spike (MS-1) QC Batch: 14580 Spiked Sample: 48846

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Dissolved Calcium	228	225	mg/L	1	100	123	105	1	75 - 125	20
Dissolved Potassium	103	109	mg/L	1	100	8.93	94	6	75 - 125	20
Dissolved Magnesium	133	133	mg/L	1	100	35	98	0	75 - 125	20
Dissolved Sodium	161	169	mg/L	1	100	62.1	99	5	75 - 125	20

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

Standard (ICV-1) QC Batch: 14298

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.53	101	90 - 110	2004-11-29

Standard (ICV-1) QC Batch: 14298

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.3	98	90 - 110	2004-11-29

continued ...

[1] Matrix spike difficulties.

standard continued...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	2.50	2.59	104	90 - 110	2004-11-29
Sulfate		mg/L	12.5	12.5	100	90 - 110	2004-11-29

Standard (CCV-1) QC Batch: 14298

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.50	100	90 - 110	2004-11-29

Standard (CCV-1) QC Batch: 14298

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.2	98	90 - 110	2004-11-29
Fluoride		mg/L	2.50	2.50	100	90 - 110	2004-11-29
Sulfate		mg/L	12.5	12.3	98	90 - 110	2004-11-29

Standard (ICV-1) QC Batch: 14353

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/L as CaCo3	250	246	98	90 - 110	2004-11-30

Standard (CCV-1) QC Batch: 14353

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/L as CaCo3	250	242	97	90 - 110	2004-11-30

Standard (ICV-1) QC Batch: 14368

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1003	100	90 - 110	2004-12-01

Standard (CCV-1) QC Batch: 14368

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	978.0	98	90 - 110	2004-12-01

Standard (ICV-1) QC Batch: 14580

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	25.0	25.3	101	90 - 110	2004-12-13
Dissolved Potassium		mg/L	25.0	24.2	97	90 - 110	2004-12-13
Dissolved Magnesium		mg/L	25.0	24.6	98	90 - 110	2004-12-13
Dissolved Sodium		mg/L	25.0	25.1	100	90 - 110	2004-12-13

Standard (CCV-1) QC Batch: 14580

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	25.0	25.4	102	90 - 110	2004-12-13
Dissolved Potassium		mg/L	25.0	24.3	97	90 - 110	2004-12-13
Dissolved Magnesium		mg/L	25.0	24.5	98	90 - 110	2004-12-13
Dissolved Sodium		mg/L	25.0	24.6	98	90 - 110	2004-12-13

4112412

CHAIN—OF—CUSTODY RECORD

Larson & Associates, Inc.
Environmental Consultants
Fax: 432-687-0456
432-687-0901
507 N. Marienfeld, Ste. 202 • Midland, TX 79701

CLIENT NAME: Chev Tx
SITE MANAGER: Cindy Crain
PROJECT NO.: 0-0112
PROJECT NAME: GL Erwin
PAGE OF
LAB. PO #

DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	Cation	Anion	TDS	LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)
11/23		✓			MW-1B 49134	1	✓	✓	✓		Dud
|	1245	/			MW-2D 49135	|	|	|	|		

SAMPLED BY: (Signature) [signature] DATE: 11/23/04 TIME: 1300
RELINQUISHED BY: (Signature) [signature] DATE: 11/23/04 TIME: 1630
RECEIVED BY: (Signature) Helen Shelton DATE: 11/23/04 TIME: 1630

RELINQUISHED BY: (Signature) Helen Shelton DATE: 11/23/04 TIME: 1730
RECEIVED BY: (Signature) [signature] DATE: 11-24-04 TIME: 9:45

SAMPLE SHIPPED BY: (Circle)
FEDEX BUS AIRBILL #: P1203830
HAND DELIVERED UPS OTHER: Lone Star

COMMENTS:
TURNAROUND TIME NEEDED: Std

RECEIVING LABORATORY: Trace Analysis
ADDRESS:
CITY: Lubbock STATE: ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: TIME:

WHITE – RECEIVING LAB
YELLOW – RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)
PINK – PROJECT MANAGER
GOLD – QA/QC COORDINATOR

SAMPLE CONDITION WHEN RECEIVED:
LA CONTACT PERSON: Cindy Crain
SAMPLE TYPE:

49134-35

411241[illegible]

CHAIN—OF—CUSTODY RECORD

Larson & Associates, Inc.
Environmental Consultants
Fax: 432-687-0456
432-687-0901
507 N. Marienfeld, Ste. 202 • Midland, TX 79701

CLIENT NAME: Chev Tx
SITE MANAGER: Cindy Crain
PROJECT NO.: 0-0112
PROJECT NAME: GL Erwin
PAGE OF
LAB. PO #

PARAMETERS/METHOD NUMBER

DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	Cations	Anions	TDS							LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)
11/23		✓			MW-1 49134	1	✓	✓	✓								Dud
	1245	✓			MW-2D 49135	1	✓	✓	✓								

SAMPLED BY: (Signature) [signature] DATE: 11/23/04 TIME: 1300

RELINQUISHED BY: (Signature) [signature] DATE: 11/23/04 TIME: 1630

RECEIVED BY: (Signature) Helen Shelton DATE: 11/23/04 TIME: 1630

RELINQUISHED BY: (Signature) Helen Shelton DATE: 11/23/04 TIME: 1730

RECEIVED BY: (Signature) Vicki Daniels DATE: 11-24-04 TIME: 9:45

SAMPLE SHIPPED BY: (Circle)
FEDEX BUS AIRBILL #: P1203830
HAND DELIVERED UPS OTHER: Lone Star

COMMENTS:

TURNAROUND TIME NEEDED: Stan

RECEIVING LABORATORY: Trace Analysis
ADDRESS:
CITY: Lubbock STATE: ZIP:
CONTACT: PHONE:

RECEIVED BY: (Signature)
DATE: TIME:

WHITE – RECEIVING LAB
YELLOW – RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)
PINK – PROJECT MANAGER
GOLD – QA/QC COORDINATOR

SAMPLE CONDITION WHEN RECEIVED:

LA CONTACT PERSON: Cindy Crain

SAMPLE TYPE:

12/13 F[illegible]

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Cindy Crain
Larson and Associates, Inc.
P. O. Box 50685
Midland, Tx 79710

Report Date: April 20, 2005

Work Order: 5021415

Client Name: Chev TX
Project Name: G.L. Erwin
Project Number: 0-0112

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
54563	MW-10	water	2005-02-11	10:50	2005-02-12
54564	RW-1	water	2005-02-11	11:00	2005-02-12
54565	SWMW	water	2005-02-11	11:13	2005-02-12
54566	MW-4	water	2005-02-11	11:20	2005-02-12
54567	W-MW	water	2005-02-11	11:29	2005-02-12
54568	MW-5	water	2005-02-11	11:36	2005-02-12
54569	MW-3	water	2005-02-11	11:48	2005-02-12
54570	MW-6	water	2005-02-11	11:59	2005-02-12
54571	MW-7	water	2005-02-11	12:07	2005-02-12
54572	MW-2	water	2005-02-11	12:16	2005-02-12
54573	MW-1	water	2005-02-11	13:25	2005-02-12
54574	MW-9	water	2005-02-11	13:34	2005-02-12
54575	MW-13	water	2005-02-11	13:43	2005-02-12
54576	MW-17	water	2005-02-11	14:01	2005-02-12
54577	MW-14	water	2005-02-11	13:50	2005-02-12
54578	MW-8	water	2005-02-11	14:08	2005-02-12
54579	MW-16	water	2005-02-11	14:15	2005-02-12
54580	DUP-1	water	2005-02-11	00:00	2005-02-12
54581	MW-12	water	2005-02-11	14:21	2005-02-12
54582	MW-19	water	2005-02-11	14:48	2005-02-12
54583	MW-20	water	2005-02-11	14:31	2005-02-12

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

Dr. Blair Leftwich, Director

Analytical Report

Sample: 54563 - MW-10

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	15978	Date Analyzed:	2005-02-17	Analyzed By:	RS
Prep Batch:	14096	Sample Preparation:	2005-02-17	Prepared By:	RS

Parameter	Flag	Result	RL	Units	Dilution	RL
Hydroxide Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**112**		mg/L as CaCo3	1	4.00
Total Alkalinity		**112**		mg/L as CaCo3	1	4.00

Sample: 54563 - MW-10

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	15993	Date Analyzed:	2005-02-18	Analyzed By:	TP
Prep Batch:	14081	Sample Preparation:	2005-02-17	Prepared By:	RR

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Calcium		**357**		mg/L	10	0.500
Dissolved Potassium		**14.0**		mg/L	1	0.500
Dissolved Magnesium		**115**		mg/L	10	0.500
Dissolved Sodium		**157**		mg/L	10	0.500

Sample: 54563 - MW-10

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	15938 [a]	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14056	Sample Preparation:	2005-02-15	Prepared By:	WB

[a]Recieved out of holding time for nitrate.

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**1110**		mg/L	100	0.500
Fluoride		**3.44**		mg/L	10	0.200
Sulfate		**93.1**		mg/L	10	0.500

Sample: 54563 - MW-10

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	15938 [a]	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14056	Sample Preparation:	2005-02-15	Prepared By:	WB

[a]Recieved out of holding time for nitrate.

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		**5.86**	mg/L	10	0.200

Sample: 54563 - MW-10

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	15909	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14022	Sample Preparation:	2005-02-14	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		**2295**	mg/L	5	10.00

Sample: 54564 - RW-1

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	16016	Date Analyzed:	2005-02-19	Analyzed By:	RS
Prep Batch:	14130	Sample Preparation:	2005-02-19	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**262**	mg/L as CaCo3	1	4.00
Total Alkalinity		**262**	mg/L as CaCo3	1	4.00

Sample: 54564 - RW-1

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	15993	Date Analyzed:	2005-02-18	Analyzed By:	TP
Prep Batch:	14081	Sample Preparation:	2005-02-17	Prepared By:	RR

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		**172**	mg/L	10	0.500
Dissolved Potassium		**84.0**	mg/L	1	0.500
Dissolved Magnesium		**51.5**	mg/L	1	0.500
Dissolved Sodium		**910**	mg/L	10	0.500

Sample: 54564 - RW-1

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	15938 [a]	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14056	Sample Preparation:	2005-02-15	Prepared By:	WB

[a]Recieved out of holding time for nitrate.

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1730**	mg/L	100	0.500
Fluoride		**3.59**	mg/L	10	0.200
Sulfate		**217**	mg/L	10	0.500

Sample: 54564 - RW-1

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	15938 [a]	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14056	Sample Preparation:	2005-02-15	Prepared By:	WB

[a]Recieved out of holding time for nitrate.

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		**8.93**	mg/L	10	0.200

Sample: 54564 - RW-1

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	15909	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14022	Sample Preparation:	2005-02-14	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		**3995**	mg/L	5	10.00

Sample: 54565 - SWMW

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	16016	Date Analyzed:	2005-02-19	Analyzed By:	RS
Prep Batch:	14130	Sample Preparation:	2005-02-19	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**260**	mg/L as CaCo3	1	4.00
Total Alkalinity		**260**	mg/L as CaCo3	1	4.00

Sample: 54565 - SWMW

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	15993	Date Analyzed:	2005-02-18	Analyzed By:	TP
Prep Batch:	14081	Sample Preparation:	2005-02-17	Prepared By:	RR

continued . . .

sample 54565 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		**323**	mg/L	10	0.500
Dissolved Potassium		**84.4**	mg/L	10	0.500
Dissolved Magnesium		**94.5**	mg/L	1	0.500
Dissolved Sodium		**1240**	mg/L	100	0.500

Sample: 54565 - SWMW

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	16628	Date Analyzed:	2005-03-11	Analyzed By:	WB
Prep Batch:	14669	Sample Preparation:	2005-03-11	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**2920**	mg/L	500	0.500
Fluoride		**1.33**	mg/L	5	0.200
Sulfate		**230**	mg/L	5	0.500

Sample: 54565 - SWMW

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	16628	Date Analyzed:	2005-03-11	Analyzed By:	WB
Prep Batch:	14669	Sample Preparation:	2005-03-11	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		**9.61**	mg/L	5	0.200

Sample: 54565 - SWMW

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	15909	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14022	Sample Preparation:	2005-02-14	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		**5575**	mg/L	5	10.00

Sample: 54566 - MW-4

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	16016	Date Analyzed:	2005-02-19	Analyzed By:	RS
Prep Batch:	14130	Sample Preparation:	2005-02-19	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**136**	mg/L as CaCo3	1	4.00
Total Alkalinity		**136**	mg/L as CaCo3	1	4.00

Sample: 54566 - MW-4

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	15993	Date Analyzed:	2005-02-18	Analyzed By:	TP
Prep Batch:	14081	Sample Preparation:	2005-02-17	Prepared By:	RR

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		**1060**	mg/L	100	0.500
Dissolved Potassium		**156**	mg/L	10	0.500
Dissolved Magnesium		**289**	mg/L	10	0.500
Dissolved Sodium		**983**	mg/L	10	0.500

Sample: 54566 - MW-4

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	16628	Date Analyzed:	2005-03-11	Analyzed By:	WB
Prep Batch:	14669	Sample Preparation:	2005-03-11	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**4520**	mg/L	500	0.500
Fluoride		<1.00	mg/L	5	0.200
Sulfate		**127**	mg/L	5	0.500

Sample: 54566 - MW-4

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	16628	Date Analyzed:	2005-03-11	Analyzed By:	WB
Prep Batch:	14669	Sample Preparation:	2005-03-11	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		**5.19**	mg/L	5	0.200

Sample: 54566 - MW-4

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	15909	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14022	Sample Preparation:	2005-02-14	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		**9030**	mg/L	10	10.00

Sample: 54567 - W-MW

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	16016	Date Analyzed:	2005-02-19	Analyzed By:	RS
Prep Batch:	14130	Sample Preparation:	2005-02-19	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**186**	mg/L as CaCo3	1	4.00
Total Alkalinity		**186**	mg/L as CaCo3	1	4.00

Sample: 54567 - W-MW

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	15993	Date Analyzed:	2005-02-18	Analyzed By:	TP
Prep Batch:	14081	Sample Preparation:	2005-02-17	Prepared By:	RR

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		**75.9**	mg/L	1	0.500
Dissolved Potassium		**43.9**	mg/L	1	0.500
Dissolved Magnesium		**21.4**	mg/L	1	0.500
Dissolved Sodium		**241**	mg/L	10	0.500

Sample: 54567 - W-MW

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	15939 [a]	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14057	Sample Preparation:	2005-02-15	Prepared By:	WB

[a]Recieved out of holding time for nitrate.

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**417**	mg/L	50	0.500
Fluoride		**2.44**	mg/L	5	0.200
Sulfate		**117**	mg/L	5	0.500

Sample: 54567 - W-MW

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	15939 [a]	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14057	Sample Preparation:	2005-02-15	Prepared By:	WB

[a]Recieved out of holding time for nitrate.

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		**4.47**	mg/L	5	0.200

Sample: 54567 - W-MW

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	15909	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14022	Sample Preparation:	2005-02-14	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		**1128**	mg/L	2	10.00

Sample: 54568 - MW-5

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	16016	Date Analyzed:	2005-02-19	Analyzed By:	RS
Prep Batch:	14130	Sample Preparation:	2005-02-19	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**288**	mg/L as CaCo3	1	4.00
Total Alkalinity		**288**	mg/L as CaCo3	1	4.00

Sample: 54568 - MW-5

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	15993	Date Analyzed:	2005-02-18	Analyzed By:	TP
Prep Batch:	14081	Sample Preparation:	2005-02-17	Prepared By:	RR

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		**46.2**	mg/L	1	0.500
Dissolved Potassium		**30.6**	mg/L	1	0.500
Dissolved Magnesium		**13.3**	mg/L	1	0.500
Dissolved Sodium		**433**	mg/L	10	0.500

Sample: 54568 - MW-5

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	16628	Date Analyzed:	2005-03-11	Analyzed By:	WB
Prep Batch:	14669	Sample Preparation:	2005-03-11	Prepared By:	WB

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**408**		mg/L	10	0.500
Fluoride		**2.58**		mg/L	10	0.200
Sulfate		**243**		mg/L	10	0.500

Sample: 54568 - MW-5

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	16628	Date Analyzed:	2005-03-11	Analyzed By:	WB
Prep Batch:	14669	Sample Preparation:	2005-03-11	Prepared By:	WB

Parameter	Flag	Result	RL	Units	Dilution	RL
Nitrate-N		**8.36**		mg/L	10	0.200

Sample: 54568 - MW-5

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	15909	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14022	Sample Preparation:	2005-02-14	Prepared By:	RS

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Dissolved Solids		**1598**		mg/L	2	10.00

Sample: 54569 - MW-3

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	16016	Date Analyzed:	2005-02-19	Analyzed By:	RS
Prep Batch:	14130	Sample Preparation:	2005-02-19	Prepared By:	RS

Parameter	Flag	Result	RL	Units	Dilution	RL
Hydroxide Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**292**		mg/L as CaCo3	1	4.00
Total Alkalinity		**292**		mg/L as CaCo3	1	4.00

Sample: 54569 - MW-3

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	15994	Date Analyzed:	2005-02-18	Analyzed By:	TP
Prep Batch:	14081	Sample Preparation:	2005-02-17	Prepared By:	RR

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Calcium		**47.0**		mg/L	1	0.500
Dissolved Potassium		**19.1**		mg/L	1	0.500
Dissolved Magnesium		**14.5**		mg/L	1	0.500
Dissolved Sodium		**590**		mg/L	10	0.500

Sample: 54569 - MW-3

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	15939 [a]	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14057	Sample Preparation:	2005-02-15	Prepared By:	WB

[a]Recieved out of holding time for nitrate.

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**879**		mg/L	100	0.500
Fluoride		**4.61**		mg/L	10	0.200
Sulfate		**196**		mg/L	10	0.500

Sample: 54569 - MW-3

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	15939 [a]	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14057	Sample Preparation:	2005-02-15	Prepared By:	WB

[a]Recieved out of holding time for nitrate.

Parameter	Flag	Result	RL	Units	Dilution	RL
Nitrate-N		**9.47**		mg/L	10	0.200

Sample: 54569 - MW-3

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	15909	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14022	Sample Preparation:	2005-02-14	Prepared By:	RS

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Dissolved Solids		**2240**		mg/L	5	10.00

Sample: 54570 - MW-6

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	16016	Date Analyzed:	2005-02-19	Analyzed By:	RS
Prep Batch:	14130	Sample Preparation:	2005-02-19	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**270**	mg/L as CaCo3	1	4.00
Total Alkalinity		**270**	mg/L as CaCo3	1	4.00

Sample: 54570 - MW-6

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	15994	Date Analyzed:	2005-02-18	Analyzed By:	TP
Prep Batch:	14081	Sample Preparation:	2005-02-17	Prepared By:	RR

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		**30.1**	mg/L	1	0.500
Dissolved Potassium		**19.5**	mg/L	1	0.500
Dissolved Magnesium		**9.13**	mg/L	1	0.500
Dissolved Sodium		**531**	mg/L	10	0.500

Sample: 54570 - MW-6

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	15939 [a]	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14057	Sample Preparation:	2005-02-15	Prepared By:	WB

[a]Recieved out of holding time for nitrate.

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**660**	mg/L	50	0.500
Fluoride		**3.76**	mg/L	5	0.200
Sulfate		**192**	mg/L	5	0.500

Sample: 54570 - MW-6

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	15939 [a]	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14057	Sample Preparation:	2005-02-15	Prepared By:	WB

[a]Recieved out of holding time for nitrate.

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		**7.84**	mg/L	5	0.200

Sample: 54570 - MW-6

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	15909	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14022	Sample Preparation:	2005-02-14	Prepared By:	RS

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Dissolved Solids		**1774**		mg/L	2	10.00

Sample: 54571 - MW-7

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	16016	Date Analyzed:	2005-02-19	Analyzed By:	RS
Prep Batch:	14130	Sample Preparation:	2005-02-19	Prepared By:	RS

Parameter	Flag	Result	RL	Units	Dilution	RL
Hydroxide Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**238**		mg/L as CaCo3	1	4.00
Total Alkalinity		**238**		mg/L as CaCo3	1	4.00

Sample: 54571 - MW-7

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	15994	Date Analyzed:	2005-02-18	Analyzed By:	TP
Prep Batch:	14081	Sample Preparation:	2005-02-17	Prepared By:	RR

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Calcium		**31.5**		mg/L	1	0.500
Dissolved Potassium		**7.75**		mg/L	1	0.500
Dissolved Magnesium		**9.99**		mg/L	1	0.500
Dissolved Sodium		**296**		mg/L	10	0.500

Sample: 54571 - MW-7

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	15939 [a]	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14057	Sample Preparation:	2005-02-15	Prepared By:	WB

[a]Recieved out of holding time for nitrate.

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**332**		mg/L	50	0.500
Fluoride		**3.76**		mg/L	5	0.200
Sulfate		**123**		mg/L	5	0.500

Sample: 54571 - MW-7

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	15939 [a]	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14057	Sample Preparation:	2005-02-15	Prepared By:	WB

[a]Recieved out of holding time for nitrate.

Parameter	Flag	Result	RL	Units	Dilution	RL
Nitrate-N		**4.65**		mg/L	5	0.200

Sample: 54571 - MW-7

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	15909	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14022	Sample Preparation:	2005-02-14	Prepared By:	RS

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Dissolved Solids		**1128**		mg/L	2	10.00

Sample: 54572 - MW-2

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	16016	Date Analyzed:	2005-02-19	Analyzed By:	RS
Prep Batch:	14130	Sample Preparation:	2005-02-19	Prepared By:	RS

Parameter	Flag	Result	RL	Units	Dilution	RL
Hydroxide Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**220**		mg/L as CaCo3	1	4.00
Total Alkalinity		**220**		mg/L as CaCo3	1	4.00

Sample: 54572 - MW-2

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	15994	Date Analyzed:	2005-02-18	Analyzed By:	TP
Prep Batch:	14081	Sample Preparation:	2005-02-17	Prepared By:	RR

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Calcium		**103**		mg/L	10	0.500
Dissolved Potassium		**11.3**		mg/L	1	0.500
Dissolved Magnesium		**34.5**		mg/L	1	0.500
Dissolved Sodium		**324**		mg/L	10	0.500

Sample: 54572 - MW-2

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	16068 [a]	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14058	Sample Preparation:	2005-02-15	Prepared By:	WB

[a]Recieved out of holding time for nitrate.

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**604**	mg/L	50	0.500
Fluoride		**2.79**	mg/L	5	0.200
Sulfate		**130**	mg/L	5	0.500

Sample: 54572 - MW-2

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	16068 [a]	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14058	Sample Preparation:	2005-02-15	Prepared By:	WB

[a]Recieved out of holding time for nitrate.

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		**5.48**	mg/L	5	0.200

Sample: 54572 - MW-2

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	15909	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14022	Sample Preparation:	2005-02-14	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		**1462**	mg/L	2	10.00

Sample: 54573 - MW-1

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	16016	Date Analyzed:	2005-02-19	Analyzed By:	RS
Prep Batch:	14130	Sample Preparation:	2005-02-19	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**146**	mg/L as CaCo3	1	4.00
Total Alkalinity		**146**	mg/L as CaCo3	1	4.00

Sample: 54573 - MW-1

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	15994	Date Analyzed:	2005-02-18	Analyzed By:	TP
Prep Batch:	14081	Sample Preparation:	2005-02-17	Prepared By:	RR

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Calcium		**97.9**		mg/L	1	0.500
Dissolved Potassium		**8.18**		mg/L	1	0.500
Dissolved Magnesium		**33.5**		mg/L	1	0.500
Dissolved Sodium		**108**		mg/L	10	0.500

Sample: 54573 - MW-1

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	16068 [a]	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14058	Sample Preparation:	2005-02-15	Prepared By:	WB

[a]Recieved out of holding time for nitrate.

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**289**		mg/L	10	0.500
Fluoride		**2.68**		mg/L	5	0.200
Sulfate		**79.2**		mg/L	5	0.500

Sample: 54573 - MW-1

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	16068 [a]	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14058	Sample Preparation:	2005-02-15	Prepared By:	WB

[a]Recieved out of holding time for nitrate.

Parameter	Flag	Result	RL	Units	Dilution	RL
Nitrate-N		**4.30**		mg/L	5	0.200

Sample: 54573 - MW-1

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	16049	Date Analyzed:	2005-02-21	Analyzed By:	RS
Prep Batch:	14165	Sample Preparation:	2005-02-18	Prepared By:	RS

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Dissolved Solids		**840.0**		mg/L	2	10.00

Sample: 54574 - MW-9

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	16017	Date Analyzed:	2005-02-19	Analyzed By:	RS
Prep Batch:	14131	Sample Preparation:	2005-02-19	Prepared By:	RS

Parameter	Flag	Result	RL Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**98.0**	mg/L as CaCo3	1	4.00
Total Alkalinity		**98.0**	mg/L as CaCo3	1	4.00

Sample: 54574 - MW-9

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	15994	Date Analyzed:	2005-02-18	Analyzed By:	TP
Prep Batch:	14081	Sample Preparation:	2005-02-17	Prepared By:	RR

Parameter	Flag	Result	RL Units	Dilution	RL
Dissolved Calcium		**495**	mg/L	10	0.500
Dissolved Potassium		**21.5**	mg/L	1	0.500
Dissolved Magnesium		**164**	mg/L	10	0.500
Dissolved Sodium		**388**	mg/L	10	0.500

Sample: 54574 - MW-9

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	16068 [a]	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14058	Sample Preparation:	2005-02-15	Prepared By:	WB

[a]Recieved out of holding time for nitrate.

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**1960**	mg/L	100	0.500
Fluoride		**3.63**	mg/L	10	0.200
Sulfate		**103**	mg/L	10	0.500

Sample: 54574 - MW-9

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	16068 [a]	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14058	Sample Preparation:	2005-02-15	Prepared By:	WB

[a]Recieved out of holding time for nitrate.

Parameter	Flag	Result	RL Units	Dilution	RL
Nitrate-N		**5.36**	mg/L	10	0.200

Sample: 54574 - MW-9

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	16049	Date Analyzed:	2005-02-21	Analyzed By:	RS
Prep Batch:	14165	Sample Preparation:	2005-02-18	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		**3920**	mg/L	5	10.00

Sample: 54575 - MW-13

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	16017	Date Analyzed:	2005-02-19	Analyzed By:	RS
Prep Batch:	14131	Sample Preparation:	2005-02-19	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**100**	mg/L as CaCo3	1	4.00
Total Alkalinity		**100**	mg/L as CaCo3	1	4.00

Sample: 54575 - MW-13

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	15994	Date Analyzed:	2005-02-18	Analyzed By:	TP
Prep Batch:	14081	Sample Preparation:	2005-02-17	Prepared By:	RR

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		**171**	mg/L	10	0.500
Dissolved Potassium		**13.3**	mg/L	1	0.500
Dissolved Magnesium		**61.7**	mg/L	1	0.500
Dissolved Sodium		**92.3**	mg/L	1	0.500

Sample: 54575 - MW-13

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	16628	Date Analyzed:	2005-03-11	Analyzed By:	WB
Prep Batch:	14669	Sample Preparation:	2005-03-11	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**491**	mg/L	50	0.500
Fluoride		**2.19**	mg/L	5	0.200
Sulfate		**117**	mg/L	5	0.500

Sample: 54575 - MW-13

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	16628	Date Analyzed:	2005-03-11	Analyzed By:	WB
Prep Batch:	14669	Sample Preparation:	2005-03-11	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		**5.36**	mg/L	5	0.200

Sample: 54575 - MW-13

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	16049	Date Analyzed:	2005-02-21	Analyzed By:	RS
Prep Batch:	14165	Sample Preparation:	2005-02-18	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		**1260**	mg/L	2	10.00

Sample: 54576 - MW-17

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	16017	Date Analyzed:	2005-02-19	Analyzed By:	RS
Prep Batch:	14131	Sample Preparation:	2005-02-19	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**174**	mg/L as CaCo3	1	4.00
Total Alkalinity		**174**	mg/L as CaCo3	1	4.00

Sample: 54576 - MW-17

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	15994	Date Analyzed:	2005-02-18	Analyzed By:	TP
Prep Batch:	14081	Sample Preparation:	2005-02-17	Prepared By:	RR

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		**134**	mg/L	10	0.500
Dissolved Potassium		**11.0**	mg/L	1	0.500
Dissolved Magnesium		**45.9**	mg/L	1	0.500
Dissolved Sodium		**229**	mg/L	10	0.500

Sample: 54576 - MW-17

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	16068 [a]	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14058	Sample Preparation:	2005-02-15	Prepared By:	WB

[a]Recieved out of holding time for nitrate.

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**572**		mg/L	50	0.500
Fluoride		**2.94**		mg/L	5	0.200
Sulfate		**101**		mg/L	5	0.500

Sample: 54576 - MW-17

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	16068 [a]	Date Analyzed:	2005-02-15	Analyzed By:	WB
Prep Batch:	14058	Sample Preparation:	2005-02-15	Prepared By:	WB

[a]Recieved out of holding time for nitrate.

Parameter	Flag	Result	RL	Units	Dilution	RL
Nitrate-N		**4.61**		mg/L	5	0.200

Sample: 54576 - MW-17

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	16049	Date Analyzed:	2005-02-21	Analyzed By:	RS
Prep Batch:	14165	Sample Preparation:	2005-02-18	Prepared By:	RS

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Dissolved Solids		**1470**		mg/L	2	10.00

Sample: 54577 - MW-14

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	16017	Date Analyzed:	2005-02-19	Analyzed By:	RS
Prep Batch:	14131	Sample Preparation:	2005-02-19	Prepared By:	RS

Parameter	Flag	Result	RL	Units	Dilution	RL
Hydroxide Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**80.0**		mg/L as CaCo3	1	4.00
Total Alkalinity		**80.0**		mg/L as CaCo3	1	4.00

Sample: 54577 - MW-14

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	15994	Date Analyzed:	2005-02-18	Analyzed By:	TP
Prep Batch:	14081	Sample Preparation:	2005-02-17	Prepared By:	RR

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Calcium		**1180**		mg/L	100	0.500
Dissolved Potassium		**56.8**		mg/L	1	0.500
Dissolved Magnesium		**370**		mg/L	10	0.500
Dissolved Sodium		**1250**		mg/L	100	0.500

Sample: 54577 - MW-14

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	16775	Date Analyzed:	2005-03-16	Analyzed By:	WB
Prep Batch:	14784	Sample Preparation:	2005-03-16	Prepared By:	WB

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**6120**		mg/L	1000	0.500
Fluoride		**3.50**		mg/L	10	0.200
Sulfate		**752**		mg/L	100	0.500

Sample: 54577 - MW-14

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	16775	Date Analyzed:	2005-03-16	Analyzed By:	WB
Prep Batch:	14784	Sample Preparation:	2005-03-16	Prepared By:	WB

Parameter	Flag	Result	RL	Units	Dilution	RL
Nitrate-N		**5.99**		mg/L	10	0.200

Sample: 54577 - MW-14

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	16854	Date Analyzed:	2005-03-23	Analyzed By:	WB
Prep Batch:	14848	Sample Preparation:	2005-03-22	Prepared By:	WB

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Dissolved Solids		**8860**		mg/L	10	10.00

Sample: 54578 - MW-8

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	16017	Date Analyzed:	2005-02-19	Analyzed By:	RS
Prep Batch:	14131	Sample Preparation:	2005-02-19	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**238**	mg/L as CaCo3	1	4.00
Total Alkalinity		**238**	mg/L as CaCo3	1	4.00

Sample: 54578 - MW-8

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	15994	Date Analyzed:	2005-02-18	Analyzed By:	TP
Prep Batch:	14081	Sample Preparation:	2005-02-17	Prepared By:	RR

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		**58.3**	mg/L	1	0.500
Dissolved Potassium		**13.2**	mg/L	1	0.500
Dissolved Magnesium		**19.0**	mg/L	1	0.500
Dissolved Sodium		**543**	mg/L	10	0.500

Sample: 54578 - MW-8

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	16775	Date Analyzed:	2005-03-16	Analyzed By:	WB
Prep Batch:	14784	Sample Preparation:	2005-03-16	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**818**	mg/L	100	0.500
Fluoride		**4.28**	mg/L	10	0.200
Sulfate		**167**	mg/L	10	0.500

Sample: 54578 - MW-8

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	16775	Date Analyzed:	2005-03-16	Analyzed By:	WB
Prep Batch:	14784	Sample Preparation:	2005-03-16	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		**8.46**	mg/L	10	0.200

Sample: 54578 - MW-8

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	16049	Date Analyzed:	2005-02-21	Analyzed By:	RS
Prep Batch:	14165	Sample Preparation:	2005-02-18	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		**2080**	mg/L	5	10.00

Sample: 54579 - MW-16

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	16017	Date Analyzed:	2005-02-19	Analyzed By:	RS
Prep Batch:	14131	Sample Preparation:	2005-02-19	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**180**	mg/L as CaCo3	1	4.00
Total Alkalinity		**180**	mg/L as CaCo3	1	4.00

Sample: 54579 - MW-16

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	16036	Date Analyzed:	2005-02-18	Analyzed By:	TP
Prep Batch:	14082	Sample Preparation:	2005-02-17	Prepared By:	RR

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		**198**	mg/L	10	0.500
Dissolved Potassium		**10.9**	mg/L	10	0.500
Dissolved Magnesium		**62.4**	mg/L	1	0.500
Dissolved Sodium		**344**	mg/L	10	0.500

Sample: 54579 - MW-16

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	17130	Date Analyzed:	2005-03-16	Analyzed By:	WB
Prep Batch:	15104	Sample Preparation:	2005-03-11	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**944**	mg/L	100	0.500
Fluoride		**2.40**	mg/L	10	0.200
Sulfate		**151**	mg/L	10	0.500

Sample: 54579 - MW-16

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	17130	Date Analyzed:	2005-03-16	Analyzed By:	WB
Prep Batch:	15104	Sample Preparation:	2005-03-11	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		**7.24**	mg/L	10	0.200

Sample: 54579 - MW-16

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	16049	Date Analyzed:	2005-02-21	Analyzed By:	RS
Prep Batch:	14165	Sample Preparation:	2005-02-18	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		**2260**	mg/L	5	10.00

Sample: 54580 - DUP-1

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	16017	Date Analyzed:	2005-02-19	Analyzed By:	RS
Prep Batch:	14131	Sample Preparation:	2005-02-19	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**268**	mg/L as CaCo3	1	4.00
Total Alkalinity		**268**	mg/L as CaCo3	1	4.00

Sample: 54580 - DUP-1

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	16036	Date Analyzed:	2005-02-18	Analyzed By:	TP
Prep Batch:	14082	Sample Preparation:	2005-02-17	Prepared By:	RR

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		**159**	mg/L	10	0.500
Dissolved Potassium		**81.0**	mg/L	1	0.500
Dissolved Magnesium		**46.4**	mg/L	1	0.500
Dissolved Sodium		**813**	mg/L	10	0.500

Sample: 54580 - DUP-1

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	17129	Date Analyzed:	2005-03-11	Analyzed By:	WB
Prep Batch:	15103	Sample Preparation:	2005-03-11	Prepared By:	WB

continued ...

sample 54580 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1690**	mg/L	100	0.500
Fluoride		**2.00**	mg/L	10	0.200
Sulfate		**224**	mg/L	10	0.500

Sample: 54580 - DUP-1

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	17129	Date Analyzed:	2005-03-11	Analyzed By:	WB
Prep Batch:	15103	Sample Preparation:	2005-03-11	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		**8.59**	mg/L	10	0.200

Sample: 54580 - DUP-1

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	16050	Date Analyzed:	2005-02-21	Analyzed By:	RS
Prep Batch:	14166	Sample Preparation:	2005-02-18	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		**3170**	mg/L	5	10.00

Sample: 54581 - MW-12

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	16017	Date Analyzed:	2005-02-19	Analyzed By:	RS
Prep Batch:	14131	Sample Preparation:	2005-02-19	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**82.0**	mg/L as CaCo3	1	4.00
Total Alkalinity		**82.0**	mg/L as CaCo3	1	4.00

Sample: 54581 - MW-12

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	16036	Date Analyzed:	2005-02-18	Analyzed By:	TP
Prep Batch:	14082	Sample Preparation:	2005-02-17	Prepared By:	RR

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Calcium		**503**		mg/L	10	0.500
Dissolved Potassium		**17.8**		mg/L	1	0.500
Dissolved Magnesium		**176**		mg/L	10	0.500
Dissolved Sodium		**138**		mg/L	10	0.500

Sample: 54581 - MW-12

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	17129	Date Analyzed:	2005-03-11	Analyzed By:	WB
Prep Batch:	15103	Sample Preparation:	2005-03-11	Prepared By:	WB

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**1770**		mg/L	100	0.500
Fluoride		**2.04**		mg/L	10	0.200
Sulfate		**47.7**		mg/L	10	0.500

Sample: 54581 - MW-12

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	17129	Date Analyzed:	2005-03-11	Analyzed By:	WB
Prep Batch:	15103	Sample Preparation:	2005-03-11	Prepared By:	WB

Parameter	Flag	Result	RL	Units	Dilution	RL
Nitrate-N		**6.08**		mg/L	10	0.200

Sample: 54581 - MW-12

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	16049	Date Analyzed:	2005-02-21	Analyzed By:	RS
Prep Batch:	14165	Sample Preparation:	2005-02-18	Prepared By:	RS

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Dissolved Solids		**3080**		mg/L	5	10.00

Sample: 54582 - MW-19

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	16017	Date Analyzed:	2005-02-19	Analyzed By:	RS
Prep Batch:	14131	Sample Preparation:	2005-02-19	Prepared By:	RS

Parameter	Flag	Result	RL	Units	Dilution	RL
Hydroxide Alkalinity		<1.00		mg/L as CaCo3	1	1.00

continued . . .

sample 54582 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**92.0**	mg/L as CaCo3	1	4.00
Total Alkalinity		**92.0**	mg/L as CaCo3	1	4.00

Sample: 54582 - MW-19

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	16036	Date Analyzed:	2005-02-18	Analyzed By:	TP
Prep Batch:	14082	Sample Preparation:	2005-02-17	Prepared By:	RR

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		**1340**	mg/L	10	0.500
Dissolved Potassium		**61.3**	mg/L	1	0.500
Dissolved Magnesium		**522**	mg/L	10	0.500
Dissolved Sodium		**974**	mg/L	10	0.500

Sample: 54582 - MW-19

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	17129	Date Analyzed:	2005-03-11	Analyzed By:	WB
Prep Batch:	15103	Sample Preparation:	2005-03-11	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**5200**	mg/L	500	0.500
Fluoride		**1.30**	mg/L	5	0.200
Sulfate		**502**	mg/L	50	0.500

Sample: 54582 - MW-19

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	17129	Date Analyzed:	2005-03-11	Analyzed By:	WB
Prep Batch:	15103	Sample Preparation:	2005-03-11	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		**5.12**	mg/L	5	0.200

Sample: 54582 - MW-19

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	16049	Date Analyzed:	2005-02-21	Analyzed By:	RS
Prep Batch:	14165	Sample Preparation:	2005-02-18	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		**22000**	mg/L	50	10.00

Sample: 54583 - MW-20

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	16017	Date Analyzed:	2005-02-19	Analyzed By:	RS
Prep Batch:	14131	Sample Preparation:	2005-02-19	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**88.0**	mg/L as CaCo3	1	4.00
Total Alkalinity		**88.0**	mg/L as CaCo3	1	4.00

Sample: 54583 - MW-20

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	16036	Date Analyzed:	2005-02-18	Analyzed By:	TP
Prep Batch:	14082	Sample Preparation:	2005-02-17	Prepared By:	RR

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		**227**	mg/L	10	0.500
Dissolved Potassium		**15.0**	mg/L	1	0.500
Dissolved Magnesium		**77.5**	mg/L	1	0.500
Dissolved Sodium		**117**	mg/L	10	0.500

Sample: 54583 - MW-20

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	17129	Date Analyzed:	2005-03-11	Analyzed By:	WB
Prep Batch:	15103	Sample Preparation:	2005-03-11	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**745**	mg/L	50	0.500
Fluoride		**1.86**	mg/L	5	0.200
Sulfate		**73.8**	mg/L	5	0.500

Sample: 54583 - MW-20

Analysis:	NO3 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	17129	Date Analyzed:	2005-03-11	Analyzed By:	WB
Prep Batch:	15103	Sample Preparation:	2005-03-11	Prepared By:	WB

Parameter	Flag	RL Result	Units	Dilution	RL
Nitrate-N		**4.34**	mg/L	5	0.200

Sample: 54583 - MW-20

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	16049	Date Analyzed:	2005-02-21	Analyzed By:	RS
Prep Batch:	14165	Sample Preparation:	2005-02-18	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		**1480**	mg/L	2	10.00

Method Blank (1) QC Batch: 15909

Parameter	Flag	MDL Result	Units	RL
Total Dissolved Solids		<5.000	mg/L	10

Method Blank (1) QC Batch: 15938

Parameter	Flag	MDL Result	Units	RL
Nitrate-N		<0.0217	mg/L	0.2

Method Blank (1) QC Batch: 15938

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.337	mg/L	0.5
Fluoride		<0.0594	mg/L	0.2
Sulfate		<0.409	mg/L	0.5

Method Blank (1) QC Batch: 15939

Parameter	Flag	MDL Result	Units	RL
Nitrate-N		<0.0217	mg/L	0.2

Method Blank (1) QC Batch: 15939

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.337	mg/L	0.5
Fluoride		<0.0594	mg/L	0.2
Sulfate		<0.409	mg/L	0.5

Method Blank (1) QC Batch: 15978

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

Method Blank (1) QC Batch: 15993

Parameter	Flag	MDL Result	Units	RL
Dissolved Calcium		<0.102	mg/L	0.5
Dissolved Potassium		<0.0454	mg/L	0.5
Dissolved Magnesium		<0.110	mg/L	0.5
Dissolved Sodium		<0.0114	mg/L	0.5

Method Blank (1) QC Batch: 15994

Parameter	Flag	MDL Result	Units	RL
Dissolved Calcium		<0.102	mg/L	0.5
Dissolved Potassium		<0.0454	mg/L	0.5
Dissolved Magnesium		<0.110	mg/L	0.5
Dissolved Sodium		<0.0114	mg/L	0.5

Method Blank (1) QC Batch: 16016

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

Method Blank (1) QC Batch: 16017

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

Method Blank (1) QC Batch: 16036

Parameter	Flag	MDL Result	Units	RL
Dissolved Calcium		<0.102	mg/L	0.5
Dissolved Potassium		<0.0454	mg/L	0.5
Dissolved Magnesium		<0.110	mg/L	0.5
Dissolved Sodium		<0.0114	mg/L	0.5

Method Blank (1) QC Batch: 16049

Parameter	Flag	MDL Result	Units	RL
Total Dissolved Solids		<5.000	mg/L	10

Method Blank (1) QC Batch: 16050

Parameter	Flag	MDL Result	Units	RL
Total Dissolved Solids		<5.000	mg/L	10

Method Blank (1) QC Batch: 16068

Parameter	Flag	MDL Result	Units	RL
Nitrate-N		<0.0217	mg/L	0.2

Method Blank (1) QC Batch: 16068

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.337	mg/L	0.5

continued ...

method blank continued . . .

Parameter	Flag	MDL Result	Units	RL
Fluoride		<0.0594	mg/L	0.2
Sulfate		<0.409	mg/L	0.5

Method Blank (1) QC Batch: 16628

Parameter	Flag	MDL Result	Units	RL
Nitrate-N		<0.0217	mg/L	0.2

Method Blank (1) QC Batch: 16628

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.337	mg/L	0.5
Fluoride		<0.0594	mg/L	0.2
Sulfate		<0.409	mg/L	0.5

Method Blank (1) QC Batch: 16775

Parameter	Flag	MDL Result	Units	RL
Nitrate-N		<0.0217	mg/L	0.2

Method Blank (1) QC Batch: 16775

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.337	mg/L	0.5
Fluoride		<0.0594	mg/L	0.2
Sulfate		<0.409	mg/L	0.5

Method Blank (1) QC Batch: 16854

Parameter	Flag	MDL Result	Units	RL
Total Dissolved Solids		<5.000	mg/L	10

Method Blank (1) QC Batch: 17129

Parameter	Flag	MDL Result	Units	RL
Nitrate-N		<0.0217	mg/L	0.2

Method Blank (1) QC Batch: 17129

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.337	mg/L	0.5
Fluoride		<0.0594	mg/L	0.2
Sulfate		<0.409	mg/L	0.5

Method Blank (1) QC Batch: 17130

Parameter	Flag	MDL Result	Units	RL
Nitrate-N		<0.0217	mg/L	0.2

Method Blank (1) QC Batch: 17130

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.337	mg/L	0.5
Fluoride		<0.0594	mg/L	0.2
Sulfate		<0.409	mg/L	0.5

Duplicate (1) QC Batch: 15909

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	1102	1128	mg/L	2	2	14.9

Duplicate (1) QC Batch: 15978

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Carbonate Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Bicarbonate Alkalinity	116	112	mg/L as CaCo3	1	4	20

continued ...

duplicate continued . . .

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Alkalinity	116	112	mg/L as CaCo3	1	4	4.6

Duplicate (1) QC Batch: 16016

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Carbonate Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Bicarbonate Alkalinity	214	220	mg/L as CaCo3	1	3	20
Total Alkalinity	214	220	mg/L as CaCo3	1	3	4.6

Duplicate (1) QC Batch: 16017

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Carbonate Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Bicarbonate Alkalinity	90.0	88.0	mg/L as CaCo3	1	2	20
Total Alkalinity	90.0	88.0	mg/L as CaCo3	1	2	4.6

Duplicate (1) QC Batch: 16049

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	1850	2080	mg/L	5	12	14.9

Duplicate (1) QC Batch: 16050

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	3500	3170	mg/L	5	10	14.9

Duplicate (1) QC Batch: 16854

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	928.0	946.0	mg/L	1	2	14.9

Laboratory Control Spike (LCS-1) QC Batch: 15938

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	2.52	2.55	mg/L	1	2.50	<0.0217	101	1	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 15938

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	13.2	13.4	mg/L	1	12.5	<0.337	106	2	90 - 110	20
Fluoride	2.64	2.74	mg/L	1	2.50	<0.0594	106	4	90 - 110	20
Sulfate	12.8	12.8	mg/L	1	12.5	<0.409	102	0	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 15939

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	2.51	2.51	mg/L	1	2.50	<0.0217	100	0	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 15939

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	13.2	13.0	mg/L	1	12.5	<0.337	106	2	90 - 110	20
Fluoride	2.63	2.61	mg/L	1	2.50	<0.0594	105	1	90 - 110	20
Sulfate	12.8	12.8	mg/L	1	12.5	<0.409	102	0	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 15993

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Dissolved Calcium	49.0	50.1	mg/L	1	50.0	<0.102	98	2	85 - 115	20
Dissolved Potassium	50.9	52.4	mg/L	1	50.0	<0.0454	102	3	85 - 115	20
Dissolved Magnesium	47.8	49.9	mg/L	1	50.0	<0.110	96	4	85 - 115	20
Dissolved Sodium	51.4	53.0	mg/L	1	50.0	<0.0114	103	3	85 - 115	20

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

Laboratory Control Spike (LCS-1) QC Batch: 15994

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Dissolved Calcium	49.0	50.1	mg/L	1	50.0	<0.102	98	2	85 - 115	20

continued ...

control spikes continued...

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Dissolved Potassium	50.9	52.4	mg/L	1	50.0	<0.0454	102	3	85 - 115	20
Dissolved Magnesium	47.8	49.9	mg/L	1	50.0	<0.110	96	4	85 - 115	20
Dissolved Sodium	51.4	53.0	mg/L	1	50.0	<0.0114	103	3	85 - 115	20

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

Laboratory Control Spike (LCS-1) QC Batch: 16036

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Dissolved Calcium	48.7	47.2	mg/L	1	50.0	<0.102	97	3	85 - 115	20
Dissolved Potassium	51.2	49.2	mg/L	1	50.0	<0.0454	102	4	85 - 115	20
Dissolved Magnesium	48.3	47.4	mg/L	1	50.0	<0.110	97	2	85 - 115	20
Dissolved Sodium	50.2	48.5	mg/L	1	50.0	<0.0114	100	3	85 - 115	20

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

Laboratory Control Spike (LCS-1) QC Batch: 16068

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	2.52	2.53	mg/L	1	2.50	<0.0217	101	0	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 16068

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	13.2	13.4	mg/L	1	12.5	<0.337	106	2	90 - 110	20
Fluoride	2.62	2.74	mg/L	1	2.50	<0.0594	105	4	90 - 110	20
Sulfate	12.8	12.8	mg/L	1	12.5	<0.409	102	0	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 16628

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	2.36	2.37	mg/L	1	2.50	<0.0217	94	0	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 16628

continued...

control spikes continued . . .

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	11.6	11.6	mg/L	1	12.5	<0.337	93	0	90 - 110	20
Fluoride	2.36	2.37	mg/L	1	2.50	<0.0594	94	0	90 - 110	20
Sulfate	12.7	12.5	mg/L	1	12.5	<0.409	101	1	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 16775

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	2.38	2.41	mg/L	1	2.50	<0.0217	95	1	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 16775

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	11.8	11.8	mg/L	1	12.5	<0.337	94	0	90 - 110	20
Fluoride	2.29	2.44	mg/L	1	2.50	<0.0594	92	6	90 - 110	20
Sulfate	11.9	11.9	mg/L	1	12.5	<0.409	95	0	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 17129

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	2.39	2.39	mg/L	1	2.50	<0.0217	96	0	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 17129

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	11.6	11.8	mg/L	1	12.5	<0.337	93	2	90 - 110	20
Fluoride	2.35	2.38	mg/L	1	2.50	<0.0594	94	1	90 - 110	20
Sulfate	12.8	12.9	mg/L	1	12.5	<0.409	102	1	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 17130

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	2.39	2.39	mg/L	1	2.50	<0.0217	96	0	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 17130

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	11.9	11.8	mg/L	1	12.5	<0.337	95	1	90 - 110	20
Fluoride	2.30	2.40	mg/L	1	2.50	<0.0594	92	4	90 - 110	20
Sulfate	11.9	11.8	mg/L	1	12.5	<0.409	95	1	90 - 110	20

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

Matrix Spike (MS-1) QC Batch: 15938 Spiked Sample: 54566

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	1380	1390	mg/L	500	2.50	<10.8	110	1	78.8 - 116	20

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

Matrix Spike (MS-1) QC Batch: 15938 Spiked Sample: 54566

Param		MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride		11600	11700	mg/L	500	12.5	5108	104	1	70.7 - 124	20
Fluoride		1430	1430	mg/L	500	2.50	<29.7	114	0	70.9 - 126	20
Sulfate	[12]	8820	9160	mg/L	500	12.5	703	130	4	82.5 - 123	20

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

Matrix Spike (MS-1) QC Batch: 15939 Spiked Sample: 54571

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	143	143	mg/L	50	2.50	19.5	99	0	78.8 - 116	20

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

Matrix Spike (MS-1) QC Batch: 15939 Spiked Sample: 54571

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	1030	1020	mg/L	50	12.5	335	111	1	70.7 - 124	20
Fluoride	155	152	mg/L	50	2.50	14.9	112	2	70.9 - 126	20

continued . . .

[1]Matrix spike difficulties due to high salt concentration.
[2]Matrix spike difficulties due to high salt concentration.

matrix spikes continued ...

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Sulfate	791	788	mg/L	50	12.5	169	100	0	82.5 - 123	20

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

Matrix Spike (MS-1) QC Batch: 15993 Spiked Sample: 54591

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Dissolved Calcium	135	135	mg/L	1	50.0	81.1	108	0	75 - 125	20
Dissolved Potassium	59.4	58.4	mg/L	1	50.0	3.61	112	2	75 - 125	20
Dissolved Magnesium	64.6	64.2	mg/L	1	50.0	13.7	102	1	75 - 125	20
Dissolved Sodium	86.1	85.0	mg/L	1	50.0	34.4	103	1	75 - 125	20

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

Matrix Spike (MS-1) QC Batch: 15994 Spiked Sample:

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Dissolved Calcium	98.8	98.0	mg/L	1	50.0	47	104	1	75 - 125	20
Dissolved Potassium	75.5	74.3	mg/L	1	50.0	19.1	113	2	75 - 125	20
Dissolved Magnesium	64.8	64.0	mg/L	1	50.0	14.5	101	1	75 - 125	20
Dissolved Sodium	639	631	mg/L	1	50.0	590	98	1	75 - 125	20

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

Matrix Spike (MS-1) QC Batch: 16036 Spiked Sample: 54579

Param		MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Dissolved Calcium		238	236	mg/L	1	50.0	198	80	1	75 - 125	20
Dissolved Potassium		60.2	61.4	mg/L	1	50.0	10.9	99	2	75 - 125	20
Dissolved Magnesium		111	111	mg/L	1	50.0	62.4	97	0	75 - 125	20
Dissolved Sodium	[34]	376	381	mg/L	1	50.0	344	64	1	75 - 125	20

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

Matrix Spike (MS-1) QC Batch: 16068 Spiked Sample: 54576

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	145	140	mg/L	50	2.50	19.5	100	4	78.8 - 116	20

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

Matrix Spike (MS-1) QC Batch: 16068 Spiked Sample: 54576

[3]No matrix spike recovery due to matrix effect, LCS/LCSD shows process under control.
[4]No matrix spike recovery due to matrix effect, LCS/LCSD shows process under control.

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	1270	1220	mg/L	50	12.5	572	112	4	70.7 - 124	20
Fluoride	136	137	mg/L	50	2.50	14.1	98	1	70.9 - 126	20
Sulfate	781	777	mg/L	50	12.5	149	101	0	82.5 - 123	20

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

Matrix Spike (MS-1) QC Batch: 16628 Spiked Sample: 54568

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	266	264	mg/L	100	2.50	34	93	1	78.8 - 116	20

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

Matrix Spike (MS-1) QC Batch: 16628 Spiked Sample: 54568

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	1720	1720	mg/L	100	12.5	581	91	0	70.7 - 124	20
Fluoride	247	250	mg/L	100	2.50	<5.94	99	1	70.9 - 126	20
Sulfate	1560	1560	mg/L	100	12.5	316	100	0	82.5 - 123	20

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

Matrix Spike (MS-1) QC Batch: 16775 Spiked Sample: 57518

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	15.1	15.1	mg/L	5	2.50	3.06	96	0	78.8 - 116	20

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

Matrix Spike (MS-1) QC Batch: 16775 Spiked Sample: 57518

Param		MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride		86.4	85.2	mg/L	5	12.5	22.4	102	1	70.7 - 124	20
Fluoride		12.6	12.4	mg/L	5	2.50	1.97	85	2	70.9 - 126	20
Sulfate	[5,6]	113	108	mg/L	5	12.5	30.5	132	4	82.5 - 123	20

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

Matrix Spike (MS-1) QC Batch: 17129 Spiked Sample: 54583

[5]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[6]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	1330	1330	mg/L	500	2.50	<10.8	106	0	78.8 - 116	20

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

Matrix Spike (MS-1) QC Batch: 17129 Spiked Sample: 54583

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	8990	8970	mg/L	500	12.5	2916	97	0	70.7 - 124	20
Fluoride	1260	1250	mg/L	500	2.50	<29.7	101	1	70.9 - 126	20
Sulfate	7370	7370	mg/L	500	12.5	615	108	0	82.5 - 123	20

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

Matrix Spike (MS-1) QC Batch: 17130 Spiked Sample: 54579

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Nitrate-N	265	264	mg/L	100	2.50	29.7	94	0	78.8 - 116	20

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

Matrix Spike (MS-1) QC Batch: 17130 Spiked Sample: 54579

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	2120	2120	mg/L	100	12.5	944	94	0	70.7 - 124	20
Fluoride	237	245	mg/L	100	2.50	16.3	88	3	70.9 - 126	20
Sulfate	1430	1430	mg/L	100	12.5	262	93	0	82.5 - 123	20

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

Standard (ICV-1) QC Batch: 15909

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	998.0	100	90 - 110	2005-02-15

Standard (CCV-1) QC Batch: 15909

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	992.0	99	90 - 110	2005-02-15

Standard (ICV-1) QC Batch: 15938

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.48	99	90 - 110	2005-02-15

Standard (ICV-1) QC Batch: 15938

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	13.0	104	90 - 110	2005-02-15
Fluoride		mg/L	2.50	2.66	106	90 - 110	2005-02-15
Sulfate		mg/L	12.5	12.8	102	90 - 110	2005-02-15

Standard (CCV-1) QC Batch: 15938

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.54	102	90 - 110	2005-02-15

Standard (CCV-1) QC Batch: 15938

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	13.3	106	90 - 110	2005-02-15
Fluoride		mg/L	2.50	2.66	106	90 - 110	2005-02-15
Sulfate		mg/L	12.5	12.8	102	90 - 110	2005-02-15

Standard (ICV-1) QC Batch: 15939

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.54	102	90 - 110	2005-02-15

Standard (ICV-1) QC Batch: 15939

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	13.3	106	90 - 110	2005-02-15
Fluoride		mg/L	2.50	2.66	106	90 - 110	2005-02-15
Sulfate		mg/L	12.5	12.8	102	90 - 110	2005-02-15

Standard (CCV-1) QC Batch: 15939

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.56	102	90 - 110	2005-02-15

Standard (CCV-1) QC Batch: 15939

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	13.4	107	90 - 110	2005-02-15
Fluoride		mg/L	2.50	2.74	110	90 - 110	2005-02-15
Sulfate		mg/L	12.5	12.8	102	90 - 110	2005-02-15

Standard (ICV-1) QC Batch: 15978

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/L as CaCo3	250	242	97	90 - 110	2005-02-17

Standard (CCV-1) QC Batch: 15978

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/L as CaCo3	250	246	98	90 - 110	2005-02-17

Standard (ICV-1) QC Batch: 15993

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	50.0	49.7	99	90 - 110	2005-02-18
Dissolved Potassium		mg/L	50.0	50.2	100	90 - 110	2005-02-18
Dissolved Magnesium		mg/L	50.0	49.7	99	90 - 110	2005-02-18
Dissolved Sodium		mg/L	50.0	50.6	101	90 - 110	2005-02-18

Standard (CCV-1) QC Batch: 15993

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	50.0	50.4	101	90 - 110	2005-02-18
Dissolved Potassium		mg/L	50.0	49.6	99	90 - 110	2005-02-18
Dissolved Magnesium		mg/L	50.0	49.6	99	90 - 110	2005-02-18
Dissolved Sodium		mg/L	50.0	50.6	101	90 - 110	2005-02-18

Standard (ICV-1) QC Batch: 15994

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	50.0	49.7	99	90 - 110	2005-02-18
Dissolved Potassium		mg/L	50.0	50.2	100	90 - 110	2005-02-18
Dissolved Magnesium		mg/L	50.0	49.7	99	90 - 110	2005-02-18
Dissolved Sodium		mg/L	50.0	50.6	101	90 - 110	2005-02-18

Standard (CCV-1) QC Batch: 15994

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	50.0	49.3	99	90 - 110	2005-02-18
Dissolved Potassium		mg/L	50.0	50.7	101	90 - 110	2005-02-18
Dissolved Magnesium		mg/L	50.0	48.3	97	90 - 110	2005-02-18
Dissolved Sodium		mg/L	50.0	50.6	101	90 - 110	2005-02-18

Standard (ICV-1) QC Batch: 16016

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/L as CaCo3	250	240	96	90 - 110	2005-02-19

Standard (CCV-1) QC Batch: 16016

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/L as CaCo3	250	244	98	90 - 110	2005-02-19

Standard (ICV-1) QC Batch: 16017

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/L as CaCo3	250	244	98	90 - 110	2005-02-19

Standard (CCV-1) QC Batch: 16017

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/L as CaCo3	250	242	97	90 - 110	2005-02-19

Standard (ICV-1) QC Batch: 16036

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	50.0	48.7	97	90 - 110	2005-02-18
Dissolved Potassium		mg/L	50.0	50.3	101	90 - 110	2005-02-18
Dissolved Magnesium		mg/L	50.0	49.4	99	90 - 110	2005-02-18
Dissolved Sodium		mg/L	50.0	50.0	100	90 - 110	2005-02-18

Standard (CCV-1) QC Batch: 16036

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	50.0	47.0	94	90 - 110	2005-02-18
Dissolved Potassium		mg/L	50.0	49.0	98	90 - 110	2005-02-18
Dissolved Magnesium		mg/L	50.0	47.2	94	90 - 110	2005-02-18
Dissolved Sodium		mg/L	50.0	48.2	96	90 - 110	2005-02-18

Standard (ICV-1) QC Batch: 16049

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	986.0	99	90 - 110	2005-02-21

Standard (CCV-1) QC Batch: 16049

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1022	102	90 - 110	2005-02-21

Standard (ICV-1) QC Batch: 16050

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1022	102	90 - 110	2005-02-21

Standard (CCV-1) QC Batch: 16050

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	982.0	98	90 - 110	2005-02-21

Standard (ICV-1) QC Batch: 16068

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.56	102	90 - 110	2005-02-15

Standard (ICV-1) QC Batch: 16068

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	13.3	106	90 - 110	2005-02-15
Fluoride		mg/L	2.50	2.74	110	90 - 110	2005-02-15
Sulfate		mg/L	12.5	12.8	102	90 - 110	2005-02-15

Standard (CCV-1) QC Batch: 16068

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.53	101	90 - 110	2005-02-15

Standard (CCV-1) QC Batch: 16068

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	13.3	106	90 - 110	2005-02-15
Fluoride		mg/L	2.50	2.67	107	90 - 110	2005-02-15
Sulfate		mg/L	12.5	12.9	103	90 - 110	2005-02-15

Standard (ICV-1) QC Batch: 16628

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.37	95	90 - 110	2005-03-11

Standard (ICV-1) QC Batch: 16628

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.5	92	90 - 110	2005-03-11
Fluoride		mg/L	2.50	2.31	92	90 - 110	2005-03-11
Sulfate		mg/L	12.5	<0.409	0	90 - 110	2005-03-11

Standard (CCV-1) QC Batch: 16628

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.37	95	90 - 110	2005-03-11

Standard (CCV-1) QC Batch: 16628

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.5	92	90 - 110	2005-03-11
Fluoride		mg/L	2.50	2.31	92	90 - 110	2005-03-11
Sulfate		mg/L	12.5	12.7	102	90 - 110	2005-03-11

Standard (ICV-1) QC Batch: 16775

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.41	96	90 - 110	2005-03-16

Standard (ICV-1) QC Batch: 16775

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.9	95	90 - 110	2005-03-16
Fluoride		mg/L	2.50	2.31	92	90 - 110	2005-03-16
Sulfate		mg/L	12.5	11.8	94	90 - 110	2005-03-16

Standard (CCV-1) QC Batch: 16775

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.41	96	90 - 110	2005-03-16

Standard (CCV-1) QC Batch: 16775

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.9	95	90 - 110	2005-03-16
Fluoride		mg/L	2.50	2.31	92	90 - 110	2005-03-16
Sulfate		mg/L	12.5	11.8	94	90 - 110	2005-03-16

Standard (ICV-1) QC Batch: 16854

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	935.0	94	90 - 110	2005-03-23

Standard (CCV-1) QC Batch: 16854

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1035	104	90 - 110	2005-03-23

Standard (ICV-1) QC Batch: 17129

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.40	96	90 - 110	2005-03-11

Standard (ICV-1) QC Batch: 17129

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.7	94	90 - 110	2005-03-11
Fluoride		mg/L	2.50	2.34	94	90 - 110	2005-03-11
Sulfate		mg/L	12.5	12.8	102	90 - 110	2005-03-11

Standard (CCV-1) QC Batch: 17129

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.38	95	90 - 110	2005-03-11

Standard (CCV-1) QC Batch: 17129

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.6	93	90 - 110	2005-03-11
Fluoride		mg/L	2.50	2.35	94	90 - 110	2005-03-11
Sulfate		mg/L	12.5	12.8	102	90 - 110	2005-03-11

Standard (ICV-1) QC Batch: 17130

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.41	96	90 - 110	2005-03-16

Standard (ICV-1) QC Batch: 17130

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.9	95	90 - 110	2005-03-16
Fluoride		mg/L	2.50	2.31	92	90 - 110	2005-03-16
Sulfate		mg/L	12.5	11.8	94	90 - 110	2005-03-16

Standard (CCV-1) QC Batch: 17130

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	2.50	2.41	96	90 - 110	2005-03-16

Standard (CCV-1) QC Batch: 17130

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.9	95	90 - 110	2005-03-16
Fluoride		mg/L	2.50	2.41	96	90 - 110	2005-03-16
Sulfate		mg/L	12.5	11.8	94	90 - 110	2005-03-16

Report Date: April 20, 2005
0-0112

Work Order: 5021415
G.L. Erwin

Page Number: 49 of 50

5021415

CHAIN—OF—CUSTODY RECORD

LArson & Associates, Inc. Environmental Consultants
Fax: 432-687-0456
432-687-0901
507 N. Marienfeld, Ste. 202 • Midland, TX 79701

CLIENT NAME:	SITE MANAGER:
ChevTex	Cindy Crain
PROJECT NO.:	**PROJECT NAME:**
0-0112	GL Erwin

PAGE 1 OF 2 — LAB. PO #

DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	PARAMETERS/METHOD NUMBER: CATIONS	ANIONS	TDS	LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)
2/11/05	1050	✓			MW10 54563	1	1	1	1		
	1100				RW-1 64						
	1113				SWMW 65						
	1120				MW4 66						
	1129				W-MW 67						
	1136				MW5 68						
	1148				MW3 69						
	1159				MW6 70						
	1207				MW7 71						
	1216				MW2 72						
	1325				MW1 73						
	1334				MW9 74						
	1343				MW13 75						
	1401				MW17 76						
	1350				MW14 77						
	1408				MW8 78						
	1415				MW16 79						
					DUP1 80						

SAMPLED BY: (Signature) Stev	DATE: 2/11/05 TIME: 1750	RELINQUISHED BY: (Signature) Stev	DATE: 2/11/05 TIME: 1800
RECEIVED BY: (Signature) Helen Shelton	DATE: 2/11/05 TIME: 1800		
RELINQUISHED BY: (Signature) Helen Shelton	DATE: 2/11/05 TIME: 1900	RECEIVED BY: (Signature)	DATE: 2-12-05 TIME: 9:45

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

COMMENTS:

TURNAROUND TIME NEEDED

WHITE – RECEIVING LAB
YELLOW – RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)
PINK – PROJECT MANAGER
GOLD – QA/QC COORDINATOR

RECEIVING LABORATORY: Trace
ADDRESS:
CITY: Midland STATE: ZIP:
CONTACT: PHONE:

RECEIVED BY: (Signature)
DATE: 2-12-05 TIME: 9:45 am

SAMPLE CONDITION WHEN RECEIVED: 0°C

LA CONTACT PERSON:

SAMPLE TYPE:

BUS GLI-166-130-573-4

MA 18 samples — HS

5021415

CHAIN—OF—CUSTODY RECORD

2 of 2

LAarson & Associates, Inc. Environmental Consultants
Fax: 432-687-0456
432-687-0901
507 N. Marienfeld, Ste. 202 • Midland, TX 79701

CLIENT NAME: CheoTex
SITE MANAGER: Cindy Crain
PROJECT NO.: 0-0112
PROJECT NAME: @ GL Erwin
PAGE 2 OF 2
LAB. PO #

DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	CATIONS	ANIONS	TDS	LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)
2/11/05	1421	✓			MW12 54.581	1	1	1	1		
"	1446	"			MW19 82	"	"	"	"		
"	1431	"			MW20 83	"	"	"	"		

PARAMETERS/METHOD NUMBER

SAMPLED BY: (Signature) Stan — DATE: 2/11/05 TIME: 1750
RELINQUISHED BY: (Signature) Stan — DATE: 2/11/05 TIME: 1750
RECEIVED BY: (Signature) Helen Shelton — DATE: 2/11/05 TIME: 1750
RELINQUISHED BY: (Signature) ~~Stan~~ Helen Shelton — DATE: 2/11/05 TIME: 1900
RECEIVED BY: (Signature) — DATE: — TIME:
SAMPLE SHIPPED BY: (Circle) FEDEX (BUS) UPS HAND DELIVERED AIRBILL #: OTHER:

COMMENTS:

TURNAROUND TIME NEEDED

WHITE – RECEIVING LAB
YELLOW – RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)
PINK – PROJECT MANAGER
GOLD – QA/QC COORDINATOR

RECEIVING LABORATORY: Trace
ADDRESS:
CITY: Lubbock STATE: ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: 7.12.05 TIME: 9:45

SAMPLE CONDITION WHEN RECEIVED: 0° C

LA CONTACT PERSON:

SAMPLE TYPE:

Bus GLI - 146-130-573-4 MA 3 samples - HS

Cation-Anion Balance Sheet

DATE: 04/20/05

Sample #	Calcium	Magnesium	Sodium	Potassium	Alkalinity	Sulfate	Chloride	Nitrate	Fluoride	TDS	EC
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	µMHOs/cm
54563	357	115	157	14	112	93.1	1110	5.86	3.44	2295	
54564	172	51.5	910	84	262	217	1730	8.93	3.59	3995	
54565	323	94.5	1240	84.4	260	230	2920	9.61	1.33	5575	
54566	1060	289	983	156	136	127	4524	5.19	0.76	9030	
54567	75.9	21.4	241	43.9	186	117	417	4.47	2.44	1128	
54568	46.2	13.3	433	30.6	288	243	407	8.36	2.58	1598	
54569	47	14.5	590	19.1	292	196	879	9.47	4.61	2240	
54570	30.1	9.13	531	19.5	270	192	660	7.84	3.76	1774	
54571	31.5	9.99	296	7.75	238	123	332	4.65	3.76	1128	
54572	103	34.5	324	11.3	220	130	604	5.48	2.79	1462	
54573	97.9	33.5	108	8.18	146	79.2	289	4.3	2.68	840	
54574	495	164	388	21.5	98	103	1960	5.36	3.63	3920	
54575	171	61.7	92.3	13.3	100	117	491	5.36	2.19	1260	
54576	134	45.9	229	11	174	101	572	4.61	2.94	1470	
54577	1180	370	1250	56.8	80	728	8100	6.66	3.19	28100	
54578	58.3	19	543	13.2	238	168	807	9.08	5.21	2080	
54579	198	62.4	344	10.9	180	151	977	7.95	3.75	2260	
54580	159	46.4	813	81	268	224	1690	8.59	2	3170	
54581	503	176	138	17.8	82	47.7	1774	6.08	2.04	3080	
54582	1410	489	979	61.5	92	502	5200	5.12	1.3	22000	
54583	227	77.5	117	15	88	73.8	745	4.34	1.86	1480	

Sample #	Calcium in meq/L	Magnesium in meq/L	Sodium in meq/L	Potassium in meq/L	Alkalinity in meq/L	Sulfate in meq/L	Chloride in meq/L	Nitrate in meq/L	Fluoride in meq/L	**Cations In meq/L**	**Anions In meq/L**	**Percentage Error**
54563	17.81	9.46	6.83	0.36	2.24	1.94	31.31	0.42	0.18	34.47	36.09	4.61
54564	8.58	4.24	39.59	2.15	5.24	4.52	48.80	0.64	0.19	54.55	59.39	8.48
54565	16.12	7.78	53.94	2.16	5.20	4.79	82.37	0.69	0.07	79.99	93.12	15.16
54566	52.89	23.78	42.76	3.99	2.72	2.64	127.62	0.37	0.04	123.43	133.40	7.76
54567	3.79	1.76	10.48	1.12	3.72	2.44	11.76	0.32	0.13	17.15	18.37	6.83
54568	2.31	1.09	18.84	0.78	5.76	5.06	11.48	0.6	0.14	23.02	23.03	0.07
54569	2.35	1.19	25.67	0.49	5.84	4.08	24.80	0.68	0.24	29.69	35.64	18.2
54570	1.50	0.75	23.10	0.50	5.40	4.00	18.62	0.56	0.2	25.85	28.77	10.7
54571	1.57	0.82	12.88	0.20	4.76	2.56	9.37	0.33	0.2	15.47	17.22	10.7
54572	5.14	2.84	14.09	0.29	4.40	2.71	17.04	0.39	0.15	22.36	24.68	9.87
54573	4.89	2.76	4.70	0.21	2.92	1.65	8.15	0.31	0.14	12.55	13.17	4.83
54574	24.70	13.50	16.88	0.55	1.96	2.14	55.29	0.38	0.19	55.62	59.97	7.52
54575	8.53	5.08	4.02	0.34	2.00	2.44	13.85	0.38	0.12	17.97	18.78	4.46
54576	6.69	3.78	9.96	0.28	3.48	2.10	16.14	0.33	0.15	20.71	22.20	6.97
54577	58.88	30.45	54.38	1.45	1.60	15.16	228.50	0.48	0.17	145.16	245.90	51.52
54578	2.91	1.56	23.62	0.34	4.76	3.50	22.77	0.65	0.27	28.43	31.95	11.64
54579	9.88	5.13	14.96	0.28	3.60	3.14	27.56	0.57	0.2	30.26	35.07	14.73
54580	7.93	3.82	35.37	2.07	5.36	4.66	47.67	0.61	0.11	49.19	58.42	17.15
54581	25.10	14.48	6.00	0.46	1.64	0.99	50.04	0.43	0.11	46.04	53.22	14.46
54582	70.36	40.24	42.59	1.57	1.84	10.45	146.69	0.37	0.07	154.76	159.42	2.97
54583	11.33	6.38	5.09	0.38	1.76	1.54	21.02	0.31	0.1	23.18	24.72	6.44

	EC/Cation	EC/Anion				
54563	3446.53	3609.09	range	0	to	0
54564	5455.45	5938.77	range	0	to	0
54565	7999.31	9311.79	range	0	to	0
54566	12342.68	13339.67	range	0	to	0
54567	1715.49	1836.71	range	0	to	0
54568	2301.81	2303.34	range	0	to	0
54569	2969.21	3563.6	range	0	to	0
54570	2585.06	2877.37	range	0	to	0
54571	1546.82	1721.65	range	0	to	0
54572	2236.18	2468.35	range	0	to	0
54573	1254.92	1316.97	range	0	to	0
54574	5562.4	5996.98	range	0	to	0
54575	1796.55	1878.5	range	0	to	0
54576	2070.66	2220.28	range	0	to	0
54577	14515.72	24590.11	range	0	to	0
54578	2843.08	3194.57	range	0	to	0
54579	3025.79	3506.99	range	0	to	0
54580	4918.98	5841.71	range	0	to	0
54581	4604.11	5321.91	range	0	to	0
54582	15475.85	15941.76	range	0	to	0
54583	2317.8	2472.07	range	0	to	0

TDS/EC	TDS/Cat	TDS/Anion	
Err:503	0.67	0.64	needs to be 0.55-0.77
Err:503	0.73	0.67	needs to be 0.55-0.77
Err:503	0.70	0.60	needs to be 0.55-0.77
Err:503	0.73	0.68	needs to be 0.55-0.77
Err:503	0.66	0.61	needs to be 0.55-0.77
Err:503	0.69	0.69	needs to be 0.55-0.77
Err:503	0.75	0.63	needs to be 0.55-0.77
Err:503	0.69	0.62	needs to be 0.55-0.77
Err:503	0.73	0.66	needs to be 0.55-0.77
Err:503	0.65	0.59	needs to be 0.55-0.77
Err:503	0.67	0.64	needs to be 0.55-0.77
Err:503	0.70	0.65	needs to be 0.55-0.77
Err:503	0.70	0.67	needs to be 0.55-0.77
Err:503	0.71	0.66	needs to be 0.55-0.77
Err:503	1.94	1.14	needs to be 0.55-0.77
Err:503	0.73	0.65	needs to be 0.55-0.77
Err:503	0.75	0.64	needs to be 0.55-0.77
Err:503	0.64	0.54	needs to be 0.55-0.77
Err:503	0.67	0.58	needs to be 0.55-0.77
Err:503	1.42	1.38	needs to be 0.55-0.77
Err:503	0.64	0.60	needs to be 0.55-0.77

5021415

CHAIN—OF—CUSTODY RECORD

Larson & Associates, Inc. 102
Environmental Consultants
Fax: 432-687-0456
432-687-0901
507 N. Marienfeld, Ste. 202 • Midland, TX 79701

CLIENT NAME: ChevTex
SITE MANAGER: Cindy Crain
PROJECT NO.: 0-0112
PROJECT NAME: GL Erwin
PAGE 1 OF 2
LAB. PO #

DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS	PARAMETERS/METHOD NUMBER: CATIONS	ANIONS	TDS	LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)
2/11/05	1050	✓			MW10	54563	1	1	1	1		
	1100				RW-1	64						
	1113				SWMW	65						
	1120				MW4	66						
	1129				W-MW	67						
	1136				MW5	68						
	1148				MW3	69						
	1159				MW6	70						
	1207				MW7	71						
	1216				MW2	72						
	1325				MW1	73						
	1334				MW9	74						
	1343				MW13	75						
	1401				MW17	76						
	1350				MW14	77						
	1408				MW8	78						
	1415				MW16	79						
					DUP1	80						

SAMPLED BY: (Signature) Stw
DATE: 2/11/05 TIME: 1750

RELINQUISHED BY: (Signature) Stw
DATE: 2/11/05 TIME: 1800

RECEIVED BY: (Signature) Helen Shelton
DATE: 2/11/05 TIME: 1800

RELINQUISHED BY: (Signature) Helen Shelton
DATE: 2/11/05 TIME: 1900

RECEIVED BY: (Signature) Amanda Young
DATE: 2.12.05 TIME: 9:45

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

COMMENTS:

TURNAROUND TIME NEEDED

WHITE – RECEIVING LAB
YELLOW – RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)
PINK – PROJECT MANAGER
GOLD – QA/QC COORDINATOR

RECEIVING LABORATORY: Trace
ADDRESS:
CITY: Tullahoma STATE: ZIP:
CONTACT: PHONE:

RECEIVED BY: (Signature) Amanda Young
DATE: 2.12.05 TIME: 9:45 am

SAMPLE CONDITION WHEN RECEIVED:
0°C

LA CONTACT PERSON:

SAMPLE TYPE:

BUS GLI · 166-130 · 573.4

MA 18 samples — HS

4/12 FW

502415

CHAIN—OF—CUSTODY RECORD

2 of 2

LArson & Associates, Inc.
Environmental Consultants
Fax: 432-687-0456
432-687-0901
507 N. Marienfeld, Ste. 202 • Midland, TX 79701

CLIENT NAME: CheoTex

SITE MANAGER: Cindy Crain

PROJECT NO.: 0-0112

PROJECT NAME: GL Erwin

PAGE 2 OF 2

LAB. PO #

DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	PARAMETERS/METHOD NUMBER: CATIONS	ANIONS	TDS	LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)
2/11/05	1421	✓			MW12 54581	1	1	1	1		
	1448				MW19 82						
	1431				MW20 83						

SAMPLED BY: (Signature) Steve — DATE: 2/11/05 TIME: 1750

RELINQUISHED BY: (Signature) Steve — DATE: 2/11/05 TIME: 1750

RECEIVED BY: (Signature) Helen Shelton — DATE: 2/11/05 TIME: 1750

RELINQUISHED BY: (Signature) Helen Shelton — DATE: 2/11/05 TIME: 1900

RECEIVED BY: (Signature) — DATE: _____ TIME: _____

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

COMMENTS:

TURNAROUND TIME NEEDED

WHITE – RECEIVING LAB
YELLOW – RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)
PINK – PROJECT MANAGER
GOLD – QA/QC COORDINATOR

RECEIVING LABORATORY: Trace
ADDRESS: _____
CITY: Lubbock STATE: _____ ZIP: _____
CONTACT: _____ PHONE: _____

RECEIVED BY: (Signature)
DATE: 2.12.05 TIME: 9:45

SAMPLE CONDITION WHEN RECEIVED:
0° C

LA CONTACT PERSON:

SAMPLE TYPE:

Bus GLI - 166.130.573-4 MA 3 samples - HS

Summary Report

Cindy Crain
Larson and Associates, Inc.
P. O. Box 50685
Midland, Tx 79710

Report Date: April 20, 2005

Work Order: 5021415

Client Name: Chev TX
Project Name: G.L. Erwin
Project Number: 0-0112

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
54563	MW-10	water	2005-02-11	10:50	2005-02-12
54564	RW-1	water	2005-02-11	11:00	2005-02-12
54565	SWMW	water	2005-02-11	11:13	2005-02-12
54566	MW-4	water	2005-02-11	11:20	2005-02-12
54567	W-MW	water	2005-02-11	11:29	2005-02-12
54568	MW-5	water	2005-02-11	11:36	2005-02-12
54569	MW-3	water	2005-02-11	11:48	2005-02-12
54570	MW-6	water	2005-02-11	11:59	2005-02-12
54571	MW-7	water	2005-02-11	12:07	2005-02-12
54572	MW-2	water	2005-02-11	12:16	2005-02-12
54573	MW-1	water	2005-02-11	13:25	2005-02-12
54574	MW-9	water	2005-02-11	13:34	2005-02-12
54575	MW-13	water	2005-02-11	13:43	2005-02-12
54576	MW-17	water	2005-02-11	14:01	2005-02-12
54577	MW-14	water	2005-02-11	13:50	2005-02-12
54578	MW-8	water	2005-02-11	14:08	2005-02-12
54579	MW-16	water	2005-02-11	14:15	2005-02-12
54580	DUP-1	water	2005-02-11	00:00	2005-02-12
54581	MW-12	water	2005-02-11	14:21	2005-02-12
54582	MW-19	water	2005-02-11	14:48	2005-02-12
54583	MW-20	water	2005-02-11	14:31	2005-02-12

Sample: 54563 - MW-10

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		**112**	mg/L as CaCo3	4.00
Total Alkalinity		**112**	mg/L as CaCo3	4.00
Dissolved Calcium		**357**	mg/L	0.500
Dissolved Potassium		**14.0**	mg/L	0.500
Dissolved Magnesium		**115**	mg/L	0.500
Dissolved Sodium		**157**	mg/L	0.500

continued ...

sample 54563 continued ...

Param	Flag	Result	Units	RL
Chloride		**1110**	mg/L	0.500
Fluoride		**3.44**	mg/L	0.200
Sulfate		**93.1**	mg/L	0.500
Nitrate-N		**5.86**	mg/L	0.200
Total Dissolved Solids		**2295**	mg/L	10.00

Sample: 54564 - RW-1

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		**262**	mg/L as CaCo3	4.00
Total Alkalinity		**262**	mg/L as CaCo3	4.00
Dissolved Calcium		**172**	mg/L	0.500
Dissolved Potassium		**84.0**	mg/L	0.500
Dissolved Magnesium		**51.5**	mg/L	0.500
Dissolved Sodium		**910**	mg/L	0.500
Chloride		**1730**	mg/L	0.500
Fluoride		**3.59**	mg/L	0.200
Sulfate		**217**	mg/L	0.500
Nitrate-N		**8.93**	mg/L	0.200
Total Dissolved Solids		**3995**	mg/L	10.00

Sample: 54565 - SWMW

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		**260**	mg/L as CaCo3	4.00
Total Alkalinity		**260**	mg/L as CaCo3	4.00
Dissolved Calcium		**323**	mg/L	0.500
Dissolved Potassium		**84.4**	mg/L	0.500
Dissolved Magnesium		**94.5**	mg/L	0.500
Dissolved Sodium		**1240**	mg/L	0.500
Chloride		**2920**	mg/L	0.500
Fluoride		**1.33**	mg/L	0.200
Sulfate		**230**	mg/L	0.500
Nitrate-N		**9.61**	mg/L	0.200
Total Dissolved Solids		**5575**	mg/L	10.00

Sample: 54566 - MW-4

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		**136**	mg/L as CaCo3	4.00
Total Alkalinity		**136**	mg/L as CaCo3	4.00
Dissolved Calcium		**1060**	mg/L	0.500

continued ...

sample 54566 continued ...

Param	Flag	Result	Units	RL
Dissolved Potassium		**156**	mg/L	0.500
Dissolved Magnesium		**289**	mg/L	0.500
Dissolved Sodium		**983**	mg/L	0.500
Chloride		**4520**	mg/L	0.500
Fluoride		<1.00	mg/L	0.200
Sulfate		**127**	mg/L	0.500
Nitrate-N		**5.19**	mg/L	0.200
Total Dissolved Solids		**9030**	mg/L	10.00

Sample: 54567 - W-MW

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		**186**	mg/L as CaCo3	4.00
Total Alkalinity		**186**	mg/L as CaCo3	4.00
Dissolved Calcium		**75.9**	mg/L	0.500
Dissolved Potassium		**43.9**	mg/L	0.500
Dissolved Magnesium		**21.4**	mg/L	0.500
Dissolved Sodium		**241**	mg/L	0.500
Chloride		**417**	mg/L	0.500
Fluoride		**2.44**	mg/L	0.200
Sulfate		**117**	mg/L	0.500
Nitrate-N		**4.47**	mg/L	0.200
Total Dissolved Solids		**1128**	mg/L	10.00

Sample: 54568 - MW-5

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		**288**	mg/L as CaCo3	4.00
Total Alkalinity		**288**	mg/L as CaCo3	4.00
Dissolved Calcium		**46.2**	mg/L	0.500
Dissolved Potassium		**30.6**	mg/L	0.500
Dissolved Magnesium		**13.3**	mg/L	0.500
Dissolved Sodium		**433**	mg/L	0.500
Chloride		**408**	mg/L	0.500
Fluoride		**2.58**	mg/L	0.200
Sulfate		**243**	mg/L	0.500
Nitrate-N		**8.36**	mg/L	0.200
Total Dissolved Solids		**1598**	mg/L	10.00

Sample: 54569 - MW-3

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00

continued ...

sample 54569 continued ...

Param	Flag	Result	Units	RL
Bicarbonate Alkalinity		**292**	mg/L as CaCo3	4.00
Total Alkalinity		**292**	mg/L as CaCo3	4.00
Dissolved Calcium		**47.0**	mg/L	0.500
Dissolved Potassium		**19.1**	mg/L	0.500
Dissolved Magnesium		**14.5**	mg/L	0.500
Dissolved Sodium		**590**	mg/L	0.500
Chloride		**879**	mg/L	0.500
Fluoride		**4.61**	mg/L	0.200
Sulfate		**196**	mg/L	0.500
Nitrate-N		**9.47**	mg/L	0.200
Total Dissolved Solids		**2240**	mg/L	10.00

Sample: 54570 - MW-6

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		**270**	mg/L as CaCo3	4.00
Total Alkalinity		**270**	mg/L as CaCo3	4.00
Dissolved Calcium		**30.1**	mg/L	0.500
Dissolved Potassium		**19.5**	mg/L	0.500
Dissolved Magnesium		**9.13**	mg/L	0.500
Dissolved Sodium		**531**	mg/L	0.500
Chloride		**660**	mg/L	0.500
Fluoride		**3.76**	mg/L	0.200
Sulfate		**192**	mg/L	0.500
Nitrate-N		**7.84**	mg/L	0.200
Total Dissolved Solids		**1774**	mg/L	10.00

Sample: 54571 - MW-7

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		**238**	mg/L as CaCo3	4.00
Total Alkalinity		**238**	mg/L as CaCo3	4.00
Dissolved Calcium		**31.5**	mg/L	0.500
Dissolved Potassium		**7.75**	mg/L	0.500
Dissolved Magnesium		**9.99**	mg/L	0.500
Dissolved Sodium		**296**	mg/L	0.500
Chloride		**332**	mg/L	0.500
Fluoride		**3.76**	mg/L	0.200
Sulfate		**123**	mg/L	0.500
Nitrate-N		**4.65**	mg/L	0.200
Total Dissolved Solids		**1128**	mg/L	10.00

Sample: 54572 - MW-2

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		**220**	mg/L as CaCo3	4.00
Total Alkalinity		**220**	mg/L as CaCo3	4.00
Dissolved Calcium		**103**	mg/L	0.500
Dissolved Potassium		**11.3**	mg/L	0.500
Dissolved Magnesium		**34.5**	mg/L	0.500
Dissolved Sodium		**324**	mg/L	0.500
Chloride		**604**	mg/L	0.500
Fluoride		**2.79**	mg/L	0.200
Sulfate		**130**	mg/L	0.500
Nitrate-N		**5.48**	mg/L	0.200
Total Dissolved Solids		**1462**	mg/L	10.00

Sample: 54573 - MW-1

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		**146**	mg/L as CaCo3	4.00
Total Alkalinity		**146**	mg/L as CaCo3	4.00
Dissolved Calcium		**97.9**	mg/L	0.500
Dissolved Potassium		**8.18**	mg/L	0.500
Dissolved Magnesium		**33.5**	mg/L	0.500
Dissolved Sodium		**108**	mg/L	0.500
Chloride		**289**	mg/L	0.500
Fluoride		**2.68**	mg/L	0.200
Sulfate		**79.2**	mg/L	0.500
Nitrate-N		**4.30**	mg/L	0.200
Total Dissolved Solids		**840.0**	mg/L	10.00

Sample: 54574 - MW-9

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		**98.0**	mg/L as CaCo3	4.00
Total Alkalinity		**98.0**	mg/L as CaCo3	4.00
Dissolved Calcium		**495**	mg/L	0.500
Dissolved Potassium		**21.5**	mg/L	0.500
Dissolved Magnesium		**164**	mg/L	0.500
Dissolved Sodium		**388**	mg/L	0.500
Chloride		**1960**	mg/L	0.500
Fluoride		**3.63**	mg/L	0.200
Sulfate		**103**	mg/L	0.500
Nitrate-N		**5.36**	mg/L	0.200
Total Dissolved Solids		**3920**	mg/L	10.00

Sample: 54575 - MW-13

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		**100**	mg/L as CaCo3	4.00
Total Alkalinity		**100**	mg/L as CaCo3	4.00
Dissolved Calcium		**171**	mg/L	0.500
Dissolved Potassium		**13.3**	mg/L	0.500
Dissolved Magnesium		**61.7**	mg/L	0.500
Dissolved Sodium		**92.3**	mg/L	0.500
Chloride		**491**	mg/L	0.500
Fluoride		**2.19**	mg/L	0.200
Sulfate		**117**	mg/L	0.500
Nitrate-N		**5.36**	mg/L	0.200
Total Dissolved Solids		**1260**	mg/L	10.00

Sample: 54576 - MW-17

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		**174**	mg/L as CaCo3	4.00
Total Alkalinity		**174**	mg/L as CaCo3	4.00
Dissolved Calcium		**134**	mg/L	0.500
Dissolved Potassium		**11.0**	mg/L	0.500
Dissolved Magnesium		**45.9**	mg/L	0.500
Dissolved Sodium		**229**	mg/L	0.500
Chloride		**572**	mg/L	0.500
Fluoride		**2.94**	mg/L	0.200
Sulfate		**101**	mg/L	0.500
Nitrate-N		**4.61**	mg/L	0.200
Total Dissolved Solids		**1470**	mg/L	10.00

Sample: 54577 - MW-14

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		**80.0**	mg/L as CaCo3	4.00
Total Alkalinity		**80.0**	mg/L as CaCo3	4.00
Dissolved Calcium		**1180**	mg/L	0.500
Dissolved Potassium		**56.8**	mg/L	0.500
Dissolved Magnesium		**370**	mg/L	0.500
Dissolved Sodium		**1250**	mg/L	0.500
Chloride		**6120**	mg/L	0.500
Fluoride		**3.50**	mg/L	0.200
Sulfate		**752**	mg/L	0.500
Nitrate-N		**5.99**	mg/L	0.200
Total Dissolved Solids		**8860**	mg/L	10.00

Sample: 54578 - MW-8

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		**238**	mg/L as CaCo3	4.00
Total Alkalinity		**238**	mg/L as CaCo3	4.00
Dissolved Calcium		**58.3**	mg/L	0.500
Dissolved Potassium		**13.2**	mg/L	0.500
Dissolved Magnesium		**19.0**	mg/L	0.500
Dissolved Sodium		**543**	mg/L	0.500
Chloride		**818**	mg/L	0.500
Fluoride		**4.28**	mg/L	0.200
Sulfate		**167**	mg/L	0.500
Nitrate-N		**8.46**	mg/L	0.200
Total Dissolved Solids		**2080**	mg/L	10.00

Sample: 54579 - MW-16

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		**180**	mg/L as CaCo3	4.00
Total Alkalinity		**180**	mg/L as CaCo3	4.00
Dissolved Calcium		**198**	mg/L	0.500
Dissolved Potassium		**10.9**	mg/L	0.500
Dissolved Magnesium		**62.4**	mg/L	0.500
Dissolved Sodium		**344**	mg/L	0.500
Chloride		**944**	mg/L	0.500
Fluoride		**2.40**	mg/L	0.200
Sulfate		**151**	mg/L	0.500
Nitrate-N		**7.24**	mg/L	0.200
Total Dissolved Solids		**2260**	mg/L	10.00

Sample: 54580 - DUP-1

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		**268**	mg/L as CaCo3	4.00
Total Alkalinity		**268**	mg/L as CaCo3	4.00
Dissolved Calcium		**159**	mg/L	0.500
Dissolved Potassium		**81.0**	mg/L	0.500
Dissolved Magnesium		**46.4**	mg/L	0.500
Dissolved Sodium		**813**	mg/L	0.500
Chloride		**1690**	mg/L	0.500
Fluoride		**2.00**	mg/L	0.200
Sulfate		**224**	mg/L	0.500
Nitrate-N		**8.59**	mg/L	0.200
Total Dissolved Solids		**3170**	mg/L	10.00

Sample: 54581 - MW-12

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		**82.0**	mg/L as CaCo3	4.00
Total Alkalinity		**82.0**	mg/L as CaCo3	4.00
Dissolved Calcium		**503**	mg/L	0.500
Dissolved Potassium		**17.8**	mg/L	0.500
Dissolved Magnesium		**176**	mg/L	0.500
Dissolved Sodium		**138**	mg/L	0.500
Chloride		**1770**	mg/L	0.500
Fluoride		**2.04**	mg/L	0.200
Sulfate		**47.7**	mg/L	0.500
Nitrate-N		**6.08**	mg/L	0.200
Total Dissolved Solids		**3080**	mg/L	10.00

Sample: 54582 - MW-19

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		**92.0**	mg/L as CaCo3	4.00
Total Alkalinity		**92.0**	mg/L as CaCo3	4.00
Dissolved Calcium		**1340**	mg/L	0.500
Dissolved Potassium		**61.3**	mg/L	0.500
Dissolved Magnesium		**522**	mg/L	0.500
Dissolved Sodium		**974**	mg/L	0.500
Chloride		**5200**	mg/L	0.500
Fluoride		**1.30**	mg/L	0.200
Sulfate		**502**	mg/L	0.500
Nitrate-N		**5.12**	mg/L	0.200
Total Dissolved Solids		**22000**	mg/L	10.00

Sample: 54583 - MW-20

Param	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1.00
Bicarbonate Alkalinity		**88.0**	mg/L as CaCo3	4.00
Total Alkalinity		**88.0**	mg/L as CaCo3	4.00
Dissolved Calcium		**227**	mg/L	0.500
Dissolved Potassium		**15.0**	mg/L	0.500
Dissolved Magnesium		**77.5**	mg/L	0.500
Dissolved Sodium		**117**	mg/L	0.500
Chloride		**745**	mg/L	0.500
Fluoride		**1.86**	mg/L	0.200
Sulfate		**73.8**	mg/L	0.500
Nitrate-N		**4.34**	mg/L	0.200
Total Dissolved Solids		**1480**	mg/L	10.00