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REPORTS

DATE:

2005

April 25, 2005

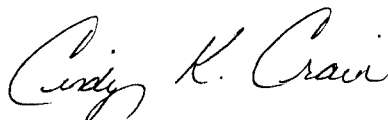
Mr. Wayne Price
Environmental Bureau
Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Annual Groundwater Monitoring Report, ChevronTexaco Exploration and Production Company, Vacuum Field Unit, Case #1R279, NE/4, Section 1, Township 18 South, Range 34 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 ChevronTexaco Exploration and Production Company, and presents the results of annual groundwater monitoring conducted by Larson and Associates, Inc. Please call Scott Toner at (432) 687-7318 or myself at (432) 687-0901 if you have questions.

Sincerely,
Larson and Associates, Inc.



Cindy K. Crain, CPG
Project Manager

cc: Scott Toner - ChevronTexaco

**ANNUAL GROUNDWATER MONITORING REPORT
BUCKEYE VACUUM FIELD UNIT, CASE #1R279
LEA COUNTY, NEW MEXICO**

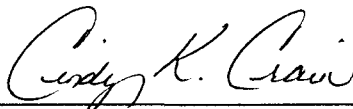
Prepared for:

**ChevronTexaco Exploration and Production Company
15 Smith Road
Midland, Texas**

Prepared by:

**Larson and Associates, Inc.
507 North Marienfeld St., Ste. 202
Midland, Texas 79701
(432) 687-0901**

April 25, 2005



**Cindy K. Crain, CPG
Project Manager**

Table of Contents

<u>Section</u>	<u>Page</u>
LIST OF TABLES	ii
LIST OF FIGURES	iii
LIST OF APPENDICES	iv
1.0 INTRODUCTION	1
2.0 BACKGROUND	1
3.0 CURRENT ACTIVITIES	2
3.1 Groundwater Monitoring	2
3.2 Waste Management and Disposition	4
3.3 Groundwater Remediation	4
4.0 CONCLUSIONS	5
5.0 RECOMMENDATIONS	6

List of Tables

Table

1. Summary of Field and Laboratory Data

List of Figures

Figure

- 1. Site Location**
- 2. Site Drawing**
- 3. Potentiometric Groundwater Surface Map, May 26, 2004**
- 4. Isopleth Map of Chloride Concentrations in Groundwater, May 27-28, 2004**
- 5. Potentiometric Groundwater Surface Map, August 4, 2004**
- 6. Isopleth Map of Chloride Concentrations in Groundwater, August 5-6, 2004**
- 7. Potentiometric Groundwater Surface Map, March 2, 2005**
- 8. Isopleth Map of Chloride Concentrations in Groundwater, March 3, 2005**

List of Appendices

Appendix

- A. Laboratory Analysis and Chain of Custody Documentation**
- B. Hydrograph of Chloride Concentrations**

Annual Groundwater Monitoring Report
Buckeye Vacuum Field Unit, Case #1R279
Lea County, New Mexico

1.0 INTRODUCTION

ChevronTexaco Exploration and Production Company (ChevronTexaco), as successor to Texaco Exploration and Production, Inc. (Texaco) has retained Larson and Associates, Inc. (LA) to conduct groundwater remediation and monitoring activities at the Buckeye Vacuum Field Unit (Site). The Site is located south of Buckeye, New Mexico, and is situated in the northeast quarter (NE/4), Section 1, Township 18 South, Range 34 East, Lea County, New Mexico. Figure 1 presents a Site location and topographic map.

2.0 BACKGROUND

In 1989, a total of twenty-three (23) monitoring wells were installed at the Site in order to determine the source and delineate the extent of a chloride impact to groundwater. Two extraction wells (RW-1 and RW-2) were also installed, and continuously pumped to remediate groundwater at the Site. A casing leak from producing well VG SAU #58 was determined to be the source of the chloride, and was repaired in 1990. Producing well VG SAU #58 was plugged and abandoned in 2000.

Groundwater monitoring of all monitoring wells (TW-1 through TW-23) and two recovery wells (RW-1 and RW-2) was conducted in 1990 and 1998. In 1999, thirteen (13) monitoring wells were plugged and abandoned, and the remaining ten (10) monitoring wells at the Site were sampled on a quarterly basis. Monitoring well TW-23 was sampled on a monthly basis. As directed by the New Mexico Oil Conservation Division (NMOCD), six monitoring wells and two (2) extraction wells were sampled on a semi-annual basis during 2000 and 2001, but well TW-23 was sampled quarterly. Pumping from wells RW-1 and RW-2 ceased in 2001, and a third extraction well (RW-3), located in the vicinity of monitoring well TW-23, was installed in 2001. ChevronTexaco immediately began pumping water from well RW-3. Groundwater monitoring continued at the Site during 2002, following a sampling schedule directed by the NMOCD. A 2002 – Groundwater Monitoring Summary and Closure Report, prepared by Highlander Environmental Corp. (Highlander)

was submitted to the NMOCD on December 20, 2002, and requested closure. In a letter from the NMOCD dated March 19, 2003, Site closure was denied, and continued monitoring of the wells at the Site was directed. LA conducted groundwater monitoring at the Site during 2003, and submitted an Annual Groundwater Monitoring Report, dated May 10, 2004, to the NMOCD. At the time of the report, monitoring wells TW-10, TW-11, TW-13, TW-14, TW-17, TW-19 and TW-20 had shown concentrations of chloride below the NMWQCC standard of 250 mg/L for the four (4) previous quarters. ChevronTexaco proposed that those wells be sampled for chloride and TDS on a semi-annual (twice yearly) basis, and that monitoring wells TW-9, TW-15 and TW-23 continue to be sampled quarterly. The monitoring schedule was approved by the NMOCD in a letter dated September 30, 2004. Groundwater is currently pumped from well RW-3 for six (6) hours and off for 48 hours to influence remediation in the vicinity of well TW-23.

Groundwater monitoring will continue at the Site until chloride concentrations in groundwater have been remediated to concentrations below the New Mexico Water Quality Control Commission (NMWQCC) standards for a minimum of four (4) consecutive quarters or four (4) consecutive longer term sampling events.

3.0 CURRENT ACTIVITIES

3.1 Groundwater Monitoring

LA completed quarterly monitoring at the Site for the period of March 2004 through March 2005. Depth to groundwater measurements and groundwater samples were collected from ten (10) monitoring wells (TW-9 through TW-11, TW-13 through TW-15, TW-17, TW-19, TW-20, and TW-23) and two (2) extraction wells (RW-2 and RW-3) on May 26, 27 and 28, 2004 (1st quarter), August 4, 5 and 6, 2004 (2nd quarter), and March 2 and 3, 2005 (4th quarter). Groundwater samples were not collected for the third quarter monitoring event (November 2004).

Annual Groundwater Monitoring Report
Buckeye Vacuum Field Unit, Case #1R279
Lea County, New Mexico

Depth to groundwater ranged from 123.06 feet (TW-15) to 128.69 feet (TW-20) below top of casing (TOC) on May 26, 2004, from 123.07 feet (TW-15) to 128.67 feet (TW-20) below TOC on August 4, 2004, and from 122.18 feet (TW-15) to 127.79 feet (TW-9 and TW-20) below TOC on March 5, 2005. The groundwater gradient was approximately 0.0019 feet per foot during each monitoring event, with the groundwater flow being consistently from the southwest to the northeast. Table 1 provides a summary of depth to groundwater measurements. Figure 3 shows the groundwater gradient on May 26, 2004. Figure 5 shows the groundwater gradient on August 4, 2004. Figure 7 shows the groundwater gradient on March 2, 2005.

Groundwater samples were collected during each event, from ten (10) monitoring wells (TW-9 through TW-11, TW-13 through TW-15, TW-17, TW-19, TW-20, and TW-23) and two (2) recovery wells (RW-2 and RW-3). Duplicate samples were collected on May 27, 2004 from monitoring well TW-13, from recovery well RW-2 on May 28, 2004, from monitoring well TW-11 on August 5, 2004, from recovery well RW-2 on August 6, 2004, and from monitoring well TW-20 on March 3, 2005. Groundwater samples from the first and second quarterly events were delivered under chain-of-custody control to TraceAnalysis, Inc. (Trace), located in Lubbock, Texas, and analyzed for chloride and total dissolved solids (TDS). Samples for the fourth quarterly event were analyzed for chloride and TDS by Environmental Lab of Texas, Inc. (ELOT), located in Odessa, Texas. 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 1 presents a summary of the chloride and TDS analysis. Appendix A presents the laboratory report.

Referring to Table 1, chloride concentrations were below the NMWQCC domestic water quality standard of 250 milligrams per liter (mg/L) in groundwater samples from all wells during each event,

except wells TW-23 and RW-3. The chloride concentrations in samples from well TW-23 were 617 milligrams per liter (mg/L) in May 2004, 919 mg/L (August 2004) and 656 mg/L (March 2005). The TDS concentrations in groundwater from well TW-23 were 1,710 mg/L (May 2004), 2,000 mg/L (August 2004) and 1,680 mg/L (March 2005). The chloride levels in well RW-3 were 338 mg/L (May 2004), 700 mg/L (August 2004) and 873 mg/L (March 2005). The TDS levels in well RW-3 were 1,620 mg/L (August 2004) and 1,710 mg/L (March 2005). The chloride and TDS levels in groundwater from wells TW-23 and RW-3 exceeded the New Mexico Water Quality Control Commission (NMWQCC) domestic water quality standards of 250 mg/L and 1,000 mg/L, respectively.

3.2 Waste Management and Disposition

Purged groundwater from the sampling activities was disposed at an NMOCD permitted salt water disposal facility operated by Chapparel Services, Inc., located in Eunice, New Mexico. Approximately 30 gallons of purged groundwater was disposed following each sampling event, for a total of approximately 90 gallons.

3.3 Groundwater Remediation

Groundwater from the Site is being pumped from extraction well RW-3, and utilized in the cooling system at the ChevronTexaco Carbon Dioxide (CO₂) Plant at Buckeye, New Mexico. Groundwater pumping from extraction well RW-3 was stopped in October 2002 to allow groundwater to stabilize, and pumping resumed on June 26, 2003. Well RW-3 is pumping on an alternating pumping (6 hours) and recovery (48 hours) schedule approved by the NMOCD, in order to flush residual chloride from the capillary zone in the vicinity of well VG SAU #58. Depth to groundwater measurements were collected frequently from all monitoring wells and recovery wells at the Site to observe any effects in groundwater levels caused by the pumping of extraction well RW-3, and revealed that

intermittent pumping is affecting the groundwater contaminate plume in the immediate vicinity of the source area. Table 1 presents a summary of depth to groundwater levels.

4.0 CONCLUSIONS

1. Depth to groundwater ranged from 123.06 feet (TW-15) to 128.69 feet (TW-20) below top of casing (TOC) on May 26, 2004.
2. Depth to groundwater ranged from 123.07 feet (TW-15) to 128.67 feet (TW-20) below TOC on August 4, 2004.
3. Depth to groundwater ranged from 122.18 feet (TW-15) to 127.79 feet (TW-9 and TW-20) below TOC on March 5, 2005.
4. The groundwater gradient was approximately 0.0019 feet per foot during each monitoring event, and groundwater flowed consistently from the southwest to the northeast.
5. From the May 2004 sampling event, chloride concentrations were below the NMWQCC standard of 250 mg/L in groundwater from all sampled wells, except well TW-23 (617 mg/L) and RW-3 (338 mg/L). Concentrations of TDS in groundwater collected from all wells were below the NMWQCC standard of 1,000 mg/L, except the sample collected from well TW-23 (1,710 mg/L).
6. From the August 2004 sampling event, chloride concentrations were below the NMWQCC standard of 250 mg/L in groundwater from all sampled wells, except monitoring well TW-23 (919 mg/L) and recovery well RW-3 (700 mg/L). Concentrations of TDS in groundwater collected from all wells were below the NMWQCC standard of 1,000 mg/L, except the samples collected from wells TW-23 (2,000 mg/L) and RW-3 (1,620 mg/L).
7. From the March 2005 sampling event, chloride concentrations were below the NMWQCC domestic water quality standard of 250 mg/L in groundwater samples from all monitoring wells except monitoring well TW-23 (656 mg/L) and recovery well RW-3 (873 mg/L).

Concentrations of TDS in groundwater collected from all wells were below the NMWQCC standard of 1,000 mg/L, except the samples collected from wells TW-23 (1,680 mg/L) and RW-3 (1,710 mg/L).

5.0 RECOMMENDATIONS

ChevronTexaco proposes to continue groundwater monitoring of the ten (10) monitoring wells associated with the Site until groundwater from all monitoring wells shows concentrations of chloride below the NMWQCC standard for four (4) consecutive quarters.

Monitoring wells TW-10, TW-11, TW-13, TW-14, TW-17, TW-19, and TW-20 have shown concentrations of chloride below the NMWQCC standard of 250 mg/L for at least the last four (4) quarters. ChevronTexaco proposes that these wells be sampled for chloride and TDS on an annual (once yearly) basis. Monitoring wells TW-9 and TW-15 have shown concentrations of chloride below the NMWQCC standard of 250 mg/L for the last three (3) quarters and are scheduled for quarterly monitoring in June 2005. If chloride concentrations are below the NMWQCC standard during the June 2005 monitoring event, ChevronTexaco proposes that well TW-9 also be placed on an annual monitoring schedule, and well TW-15 continue to be monitored quarterly, due to slightly increasing chloride concentrations reported in groundwater during the last three (3) monitoring events. Monitoring well TW-23 has not shown chloride concentrations below the NMWQCC standard for four (4) consecutive sampling events, and will continue to be sampled quarterly for chloride and TDS. ChevronTexaco may modify the pumping interval at recovery well RW-3 to increase flushing of chloride in the immediate vicinity of monitoring well TW-23.

TABLE

Table 1
Summary of Field and Laboratory Data
ChevronTexaco Inc., Vacuum Field Unit, Case #1R279
Lea County, New Mexico

Page 1 of 8

Monitoring Well	Sample Date	Depth-to-Groundwater Feet TOC	Pumping Rate(BPD)	Total Flow(BBLs)	Chloride (mg/L)	TDS (mg/L)
TW-9	15-May-03	129.01	--	--	120	--
	23-Jun-03	--	--	--	--	--
	02-Jul-03	128.79	--	--	--	--
	11-Jul-03	128.92	--	--	--	--
	08-Aug-03	128.64	--	--	--	--
	26-Aug-03	128.69	--	--	--	--
	3-Sep-03	128.85	1443.20	24,655	--	--
	18-Sep-03	128.76	1476.00	31,920	--	--
	3-Oct-03	128.77	--	38,255	--	--
	7-Oct-03	128.97	1489.10	41,083	--	--
	13-Oct-03	129.05	1469.40	43,965	--	--
	21-Oct-03	128.92	1436.20	46,962	--	--
	6-Nov-03	129.16	1628.80	55,594	--	--
	18-Nov-03	128.97	0.00	61,607	442	892
	3-Dec-03	128.98	1653.00	69,530	--	--
	23-Dec-03	128.69	1416.90	78,414	--	--
	21-Jan-04	128.77	1666.20	94,242	--	--
	2-Feb-04	128.77	1469.00	102,200	--	--
	11-Feb-04	128.62	0.00	107,770	420	972
	17-Feb-04	128.49	0.00	107,770	--	--
	9-Mar-04	128.76	0.00	115,194	--	--
	18-Mar-04	128.77	1489.00	121,755	--	--
	05-Apr-04	128.75	0.00	132,779	--	--
	12-Apr-04	128.95	1587.50	138,374	--	--
	28-Apr-04	128.59	0.00	140,682	--	--
	7-May-04	128.69	1489.10	142,175	--	--
	13-May-04	128.62	0.00	142,913	--	--
	27-May-04	128.65	0.00	145,015	88.2	461
	3-Jun-04	128.72	1403.80	146,427	--	--
	8-Jul-04	128.79	0.00	151,757	--	--
	20-Jul-04	128.62	0.00	521,213	--	--
	6-Aug-04	128.64	0.00	522,877	49	385
	17-Aug-04	128.66	0.00	524,952	--	--
	24-Aug-04	128.59	0.00	525,793	--	--
	30-Aug-04	128.59	0.00	527,041	--	--
	8-Sep-04	128.55	0.00	528,688	--	--
	13-Sep-04	128.58	0.00	529,509	--	--
	20-Sep-04	128.52	0.00	530,699	--	--
	21-Oct-04	128.33	0.00	535,744	--	--
	26-Oct-04	128.31	0.00	536,895	--	--
	12-Nov-04	128.22	1653.10	539,347	--	--
	5-Jan-05	128.90	0.00	550,929	--	--
	3-Mar-05	127.79	0.00	--	44.5	239
TW-10	15-May-03	127.99	--	--	44.3	--
	23-Jun-03	127.75	--	--	--	--
	02-Jul-03	128.02	--	--	--	--
	11-Jul-03	128.09	--	--	--	--
	08-Aug-03	127.71	--	--	--	--
	26-Aug-03	127.80	--	--	--	--
	3-Sep-03	128.07	1443.20	24,655	--	--
	18-Sep-03	128.01	1476.00	31,920	--	--
	3-Oct-03	127.83	1436.60	38,255	--	--
	7-Oct-03	128.11	1489.10	41,083	--	--
	13-Oct-03	128.12	1469.40	43,965	--	--
	21-Oct-03	127.97	1436.20	46,962	--	--
	6-Nov-03	128.29	1626.80	55,594	--	--
	19-Nov-03	128.11	0.00	61,607	59.1	369
	3-Dec-03	128.19	1653.00	69,530	--	--
	23-Dec-03	127.83	1416.90	78,414	--	--
	21-Jan-04	127.94	1666.20	94,242	--	--
	2-Feb-04	127.05	1469.00	102,200	--	--
	11-Feb-04	127.69	0.00	107,770	52.9	372
	17-Feb-04	127.56	0.00	107,770	--	--
	9-Mar-04	127.92	0.00	115,194	--	--
	18-Mar-04	127.99	1489.10	121,755	--	--
	05-Apr-04	127.80	0.00	132,779	--	--
	12-Apr-04	128.95	1587.50	138,374	--	--
	28-Apr-04	127.61	0.00	140,682	--	--
	7-May-04	126.88	1489.10	142,175	--	--

Table 1
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ChevronTexaco Inc., Vacuum Field Unit, Case #1R279
Lea County, New Mexico

Page 2 of 8

Monitoring Well	Sample Date	Depth-to-Groundwater Feet TOC	Pumping Rate(BPD)	Total Flow(BBLs)	Chloride (mg/L)	TDS (mg/L)
TW-10	13-May-04	127.66	0.00	142,913	--	--
	28-May-04	127.66	0.00	145,015	39.9	344
	3-Jun-04	126.79	1403.80	146,427	--	--
	8-Jul-04	127.79	0.00	151,757	--	--
	20-Jul-04	127.66	0.00	521,213	--	--
	6-Aug-04	127.69	0.00	522,877	45.4	354
	17-Aug-04	127.68	0.00	524,952	--	--
	24-Aug-04	127.62	0.00	525,793	--	--
	30-Aug-04	127.62	0.00	527,041	--	--
	8-Sep-04	127.59	0.00	528,688	--	--
	13-Sep-04	126.75	0.00	529,509	--	--
	20-Sep-04	127.57	0.00	530,699	--	--
	21-Oct-04	127.28	0.00	535,744	--	--
	26-Oct-04	127.28	0.00	536,895	--	--
	12-Nov-04	127.21	1659.60	539,399	--	--
	5-Jan-05	126.92	0.00	550,929	--	--
	3-Mar-05	126.80	0.00	--	33	226
TW-11	15-May-03	128.97	--	--	35.4	--
	23-Jun-03	128.64	--	--	--	--
	02-Jul-03	129.11	--	--	--	--
	11-Jul-03	129.04	--	--	--	--
	08-Aug-03	128.63	--	--	--	--
	26-Aug-03	128.71	--	--	--	--
	3-Sep-03	129.15	1443.20	24,655	--	--
	18-Sep-03	127.08	1476.00	31,920	--	--
	3-Oct-03	128.72	1436.60	38,255	--	--
	7-Oct-03	129.10	1489.10	41,083	--	--
	13-Oct-03	129.06	1469.40	43,965	--	--
	21-Oct-03	127.83	1436.20	46,962	--	--
	6-Nov-03	129.21	1626.80	55,594	--	--
	19-Nov-03	129.14	0.00	61,607	25.3	307
	3-Dec-03	129.20	1653.00	69,530	--	--
	23-Dec-03	128.69	1416.90	78,414	--	--
	21-Jan-04	128.97	1666.20	94,242	--	--
	2-Feb-04	128.87	1469.00	102,200	--	--
	11-Feb-04	128.67	0.00	107,770	83.8	610
	17-Feb-04	128.37	0.00	107,770	--	--
	9-Mar-04	128.92	0.00	115,194	--	--
	18-Mar-04	128.97	1489.10	121,755	--	--
	05-Apr-04	126.61	0.00	132,779	--	--
	12-Apr-04	129.20	1587.50	138,374	--	--
	28-Apr-04	128.34	0.00	140,682	--	--
	7-May-04	128.66	1489.10	142,175	--	--
	13-May-04	124.83	0.00	142,913	--	--
	28-May-04	128.39	0.00	145,015	27.0	274
	3-Jun-04	128.69	1403.80	146,427	--	--
	8-Jul-04	128.45	0.00	151,757	--	--
	20-Jul-04	128.37	0.00	521,213	--	--
	5-Aug-04	128.42	0.00	522,877	30.1	269
	17-Aug-04	128.43	0.00	524,952	--	--
	24-Aug-04	128.35	0.00	525,793	--	--
	30-Aug-04	128.36	0.00	527,041	--	--
	8-Sep-04	128.31	0.00	528,688	--	--
	13-Sep-04	128.37	0.00	529,509	--	--
	20-Sep-04	127.57	0.00	530,699	--	--
	21-Oct-04	127.91	0.00	535,744	--	--
	26-Oct-04	127.96	0.00	536,895	--	--
	12-Nov-04	127.88	1659.60	539,347	--	--
	5-Jan-05	127.61	0.00	550,929	--	--
	3-Mar-05	127.56	0.00	--	28.4	174

Table 1
Summary of Field and Laboratory Data
ChevronTexaco Inc., Vacuum Field Unit, Case #1R279
Lea County, New Mexico

Page 3 of 8

Monitoring Well	Sample Date	Depth-to-Groundwater Feet TOC	Pumping Rate(BPD)	Total Flow(BBLs)	Chloride (mg/L)	TDS (mg/L)
TW-13	15-May-03	128.85	--	--	39.0	--
	23-Jun-03	128.77	--	--	--	--
	02-Jul-03	128.94	--	--	--	--
	11-Jul-03	128.93	--	--	--	--
	08-Aug-03	128.75	--	--	--	--
	26-Aug-03	128.80	--	--	--	--
	3-Sep-03	128.94	1443.20	24,655	--	--
	18-Sep-03	128.91	1476.00	31,920	--	--
	3-Oct-03	128.70	1436.60	38,255	--	--
	7-Oct-03	128.86	1489.10	41,083	--	--
	13-Oct-03	128.86	1469.40	43,965	--	--
	21-Oct-03	128.82	1436.20	46,962	--	--
	6-Nov-03	128.97	1626.80	55,594	--	--
	18-Nov-03	128.89	0.00	61,607	64.3	560
	3-Dec-03	128.90	1653.00	69,530	--	--
	23-Dec-03	128.67	1416.90	78,414	--	--
	21-Jan-04	128.73	1666.20	94,242	--	--
	2-Feb-04	128.77	1469.00	102,200	--	--
	11-Feb-04	128.67	0.00	107,770	83.8	610
	17-Feb-04	128.54	0.00	107,770	--	--
	9-Mar-04	128.82	0.00	115,194	--	--
	18-Mar-04	128.87	1489.10	121,755	--	--
	05-Apr-04	128.74	0.00	132,779	--	--
	12-Apr-04	129.01	1587.50	138,374	--	--
	28-Apr-04	123.09	0.00	140,682	--	--
	7-May-04	128.70	1489.10	142,175	--	--
	13-May-04	128.67	0.00	142,913	--	--
	27-May-04	128.67	0.00	145,015	84.5	625
	3-Jun-04	128.79	1403.80	146,427	--	--
	8-Jul-04	128.75	0.00	151,757	--	--
	20-Jul-04	128.70	0.00	521,213	--	--
	6-Aug-04	128.66	0.00	522,877	74.8	596
	17-Aug-04	128.67	0.00	524,952	--	--
	24-Aug-04	128.62	0.00	525,793	--	--
	30-Aug-04	128.69	0.00	527,041	--	--
	8-Sep-04	128.61	0.00	528,688	--	--
	13-Sep-04	128.99	0.00	529,509	--	--
	20-Sep-04	129.58	0.00	530,699	--	--
	21-Oct-04	128.36	0.00	535,744	--	--
	26-Oct-04	128.34	0.00	536,895	--	--
	12-Nov-04	128.11	1659.60	539,399	--	--
	5-Jan-05	127.78	0.00	550,929	--	--
	3-Mar-05	127.74	0.00	--	90	502
TW-14	15-May-03	126.78	--	--	65.0	--
	23-Jun-03	126.55	--	--	--	--
	02-Jul-03	127.35	--	--	--	--
	11-Jul-03	126.92	--	--	--	--
	08-Aug-03	126.52	--	--	--	--
	26-Aug-03	126.66	--	--	--	--
	3-Sep-03	127.29	1443.20	24,655	--	--
	18-Sep-03	127.25	1476.00	31,920	--	--
	3-Oct-03	126.75	1436.60	38,255	--	--
	7-Oct-03	127.32	1489.10	41,083	--	--
	13-Oct-03	127.34	1469.40	43,965	--	--
	21-Oct-03	126.95	1436.20	46,962	--	--
	6-Nov-03	127.47	1626.80	55,594	--	--
	19-Nov-03	127.28	0.00	61,607	25.4	368
	3-Dec-03	127.46	1653.00	69,530	--	--
	23-Dec-03	126.81	1416.90	78,414	--	--
	21-Jan-04	127.17	1666.20	94,242	--	--
	2-Feb-04	127.04	1469.00	102,200	--	--
	11-Feb-04	127.32	0.00	107,770	29.6	339
	17-Feb-04	126.35	0.00	107,770	--	--
	9-Mar-04	127.01	0.00	115,194	--	--
	18-Mar-04	127.19	1489.10	121,755	--	--
	05-Apr-04	127.23	0.00	132,779	--	--
	12-Apr-04	127.47	1587.50	138,374	--	--
	28-Apr-04	126.39	0.00	140,682	--	--

Table 1
Summary of Field and Laboratory Data
ChevronTexaco Inc., Vacuum Field Unit, Case #1R279
Lea County, New Mexico

Page 4 of 8

Monitoring Well	Sample Date	Depth-to-Groundwater Feet TOC	Pumping Rate(BPD)	Total Flow(BBLs)	Chloride (mg/L)	TDS (mg/L)
TW-14	7-May-04	126.88	1489.10	142,175	--	--
	13-May-04	126.42	0.00	142,913	--	--
	28-May-04	126.44	0.00	145,015	30.3	346
	3-Jun-04	126.82	1403.80	146,427	--	--
	8-Jul-04	126.51	0.00	151,757	--	--
	20-Jul-04	126.41	0.00	521,213	--	--
	5-Aug-04	126.48	0.00	522,877	32.7	347
	17-Aug-04	126.54	0.00	524,952	--	--
	24-Aug-04	126.39	0.00	525,793	--	--
	30-Aug-04	126.39	0.00	527,041	--	--
	8-Sep-04	126.35	0.00	528,688	--	--
	13-Sep-04	126.31	0.00	529,509	--	--
	20-Sep-04	126.36	0.00	530,699	--	--
	21-Oct-04	125.90	0.00	535,744	--	--
	26-Oct-04	125.94	0.00	536,895	--	--
	12-Nov-04	126.09	1659.60	539,399	--	--
	5-Jan-05	125.54	0.00	550,929	--	--
	3-Mar-05	125.55	0.00	--	87.9	340
TW-15	15-May-03	123.50	--	--	88.6	--
	23-Jun-03	123.28	--	--	--	--
	02-Jul-03	123.58	--	--	--	--
	11-Jul-03	123.65	--	--	--	--
	08-Aug-03	123.30	--	--	--	--
	26-Aug-03	123.36	--	--	--	--
	3-Sep-03	123.67	1443.20	24,655	--	--
	18-Sep-03	123.66	1476.00	31,920	--	--
	3-Oct-03	123.39	1436.60	38,255	--	--
	7-Oct-03	123.61	1489.10	41,083	--	--
	13-Oct-03	123.61	1469.40	43,965	--	--
	21-Oct-03	123.51	1436.20	46,962	--	--
	6-Nov-03	123.75	1626.80	55,594	--	--
	19-Nov-03	123.76	0.00	61,607	561	1132
	3-Dec-03	123.75	1653.00	69,530	--	--
	23-Dec-03	123.39	1416.90	78,414	--	--
	21-Jan-04	123.60	1666.20	94,242	--	--
	2-Feb-04	123.50	1469.00	102,200	--	--
	11-Feb-04	123.34	0.00	107,770	419	908
	17-Feb-04	123.11	0.00	107,770	--	--
	9-Mar-04	123.47	0.00	115,194	--	--
	18-Mar-04	123.59	1489.10	121,755	--	--
	05-Apr-04	123.32	0.00	132,779	--	--
	12-Apr-04	123.77	1587.50	138,374	--	--
	28-Apr-04	--	--	--	--	--
	7-May-04	123.32	1489.10	142,175	--	--
	13-May-04	123.12	0.00	142,913	--	--
	27-May-04	123.06	0.00	145,015	93.4	439
	3-Jun-04	123.31	1403.80	146,427	--	--
	8-Jul-04	123.17	0.00	151,757	--	--
	20-Jul-04	123.11	0.00	521,213	--	--
	5-Aug-04	123.07	0.00	522,877	102	545
	17-Aug-04	123.08	0.00	524,952	--	--
	24-Aug-04	123.05	0.00	525,793	--	--
	30-Aug-04	123.04	0.00	527,041	--	--
	8-Sep-04	122.99	0.00	528,688	--	--
	13-Sep-04	123.00	0.00	529,509	--	--
	20-Sep-04	123.01	0.00	530,699	--	--
	21-Oct-04	121.73	0.00	535,744	--	--
	26-Oct-04	121.86	0.00	536,895	--	--
	12-Nov-04	122.17	1659.60	539,399	--	--
	5-Jan-05	122.21	0.00	550,929	--	--
	3-Mar-05	122.18	0.00	--	189	577

Table 1
Summary of Field and Laboratory Data
ChevronTexaco Inc., Vacuum Field Unit, Case #R279
Lea County, New Mexico

Page 5 of 8

Monitoring Well	Sample Date	Depth-to-Groundwater Feet TOC	Pumping Rate(BPD)	Total Flow(BBLs)	Chloride (mg/L)	TDS (mg/L)
TW-17	15-May-03	122.87	--	--	31.9	--
	23-Jun-03	125.05	--	--	--	--
	02-Jul-03	125.52	--	--	--	--
	11-Jul-03	125.55	--	--	--	--
	08-Aug-03	125.17	--	--	--	--
	26-Aug-03	125.27	--	--	--	--
	3-Sep-03	125.56	1443.20	24,655	--	--
	18-Sep-03	125.55	1476.00	31,920	--	--
	3-Oct-03	125.25	1436.60	38,255	--	--
	7-Oct-03	125.52	1489.10	41,083	--	--
	13-Oct-03	125.50	1469.40	43,965	--	--
	21-Oct-03	125.30	1436.20	46,962	--	--
	6-Nov-03	125.64	1626.80	55,594	--	--
	19-Nov-03	125.64	0.00	61,607	26.7	295
	3-Dec-03	125.64	1653.00	69,530	--	--
	23-Dec-03	125.33	1416.90	78,414	--	--
	21-Jan-04	125.44	1666.20	94,242	--	--
	2-Feb-04	125.35	1469.00	102,200	--	--
	11-Feb-04	125.15	0.00	107,770	24.9	294
	17-Feb-04	124.91	0.00	107,770	--	--
	9-Mar-04	125.38	0.00	115,194	--	--
	18-Mar-04	125.43	1489.10	121,755	--	--
	05-Apr-04	125.13	0.00	132,779	--	--
	12-Apr-04	125.58	1587.50	138,374	--	--
	28-Apr-04	124.89	0.00	140,682	--	--
	7-May-04	125.06	1489.10	142,175	--	--
	13-May-04	124.95	0.00	142,913	--	--
	28-May-04	124.89	0.00	145,015	26.7	302
	3-Jun-04	125.06	1403.80	146,427	--	--
	8-Jul-04	124.89	0.00	151,757	--	--
	20-Jul-04	124.81	0.00	521,213	--	--
	5-Aug-04	124.88	0.00	522,877	29.4	306
	17-Aug-04	124.87	0.00	524,952	--	--
	24-Aug-04	124.81	0.00	525,793	--	--
	30-Aug-04	124.83	0.00	527,041	--	--
	8-Sep-04	124.79	0.00	528,688	--	--
	13-Sep-04	124.74	0.00	529,509	--	--
	20-Sep-04	124.79	0.00	530,699	--	--
	21-Oct-04	123.80	0.00	535,744	--	--
	26-Oct-04	123.95	0.00	536,895	--	--
	12-Nov-04	124.03	1659.60	539,399	--	--
	5-Jan-05	124.05	0.00	550,929	--	--
	3-Mar-05	124.06	0.00	--	178	565
TW-19	15-May-03	121.80	--	--	35.4	--
	23-Jun-03	125.21	--	--	--	--
	02-Jul-03	126.56	--	--	--	--
	11-Jul-03	125.62	--	--	--	--
	08-Aug-03	125.23	--	--	--	--
	26-Aug-03	125.32	--	--	--	--
	3-Sep-03	126.51	1443.20	24,655	--	--
	18-Sep-03	126.45	1476.00	31,920	--	--
	3-Oct-03	125.82	1436.60	38,255	--	--
	7-Oct-03	126.52	1489.10	41,083	--	--
	13-Oct-03	126.51	1469.40	43,965	--	--
	21-Oct-03	126.08	1436.20	46,962	--	--
	6-Nov-03	126.69	1626.80	55,594	--	--
	19-Nov-03	126.25	0.00	61,607	28.3	325
	3-Dec-03	126.77	1653.00	69,530	--	--
	23-Dec-03	125.91	1416.90	78,414	--	--
	21-Jan-04	126.46	1666.20	94,242	--	--
	2-Feb-04	126.21	1469.00	102,200	--	--
	11-Feb-04	125.31	0.00	107,770	23.7	387
	17-Feb-04	125.02	0.00	107,770	--	--
	9-Mar-04	125.81	0.00	115,194	--	--
	18-Mar-04	126.40	1489.10	121,755	--	--
	05-Apr-04	125.31	0.00	132,779	--	--
	12-Apr-04	126.74	1587.50	138,374	--	--
	28-Apr-04	125.05	0.00	140,682	--	--
	7-May-04	126.07	1489.10	142,175	--	--
	13-May-04	125.15	0.00	142,913	--	--

Table 1
Summary of Field and Laboratory Data
ChevronTexaco Inc., Vacuum Field Unit, Case #R279
Lea County, New Mexico

Page 6 of 8

Monitoring Well	Sample Date	Depth-to-Groundwater Feet TOC	Pumping Rate(BPD)	Total Flow(BBLs)	Chloride (mg/L)	TDS (mg/L)
TW-19	27-May-04	125.11	0.00	145,015	33.6	287
	3-Jun-04	125.82	1403.80	146,427	--	--
	8-Jul-04	125.11	0.00	151,757	--	--
	20-Jul-04	125.06	0.00	521,213	--	--
	5-Aug-04	125.14	0.00	522,877	42.8	344
	17-Aug-04	125.17	0.00	524,952	--	--
	24-Aug-04	125.05	0.00	525,793	--	--
	30-Aug-04	125.04	0.00	527,041	--	--
	8-Sep-04	124.98	0.00	528,688	--	--
	13-Sep-04	124.95	0.00	529,509	--	--
	20-Sep-04	124.99	0.00	530,699	--	--
	21-Oct-04	124.38	0.00	535,744	--	--
	26-Oct-04	123.46	0.00	536,895	--	--
	12-Nov-04	125.14	1659.60	539,399	--	--
	5-Jan-05	124.49	0.00	550,929	--	--
	3-Mar-05	124.26	0.00	--	54.2	224
TW-20	15-May-03	129.07	--	--	35.4	--
	23-Jun-03	128.71	--	--	--	--
	02-Jul-03	128.83	--	--	--	--
	11-Jul-03	128.80	--	--	--	--
	08-Aug-03	128.63	--	--	--	--
	26-Aug-03	128.73	--	--	--	--
	3-Sep-03	128.88	1443.20	24,655	--	--
	18-Sep-03	128.78	1476.00	31,920	--	--
	3-Oct-03	128.73	1436.60	38,255	--	--
	7-Oct-03	128.93	1489.10	41,083	--	--
	13-Oct-03	128.96	1469.40	43,965	--	--
	21-Oct-03	128.85	1436.20	46,962	--	--
	6-Nov-03	129.12	1626.80	55,594	--	--
	18-Nov-03	128.93	0.00	61,607	26.5	328
	3-Dec-03	128.94	1653.00	69,530	--	--
	23-Dec-03	128.66	1416.90	78,414	--	--
	21-Jan-04	128.69	1666.20	94,242	--	--
	2-Feb-04	128.78	1469.00	102,200	--	--
	11-Feb-04	128.69	0.00	107,770	25.2	353
	17-Feb-04	128.46	0.00	107,770	--	--
	9-Mar-04	128.79	0.00	115,194	--	--
	18-Mar-04	128.79	1489.10	121,755	--	--
	05-Apr-04	128.79	0.00	132,779	--	--
	12-Apr-04	129.02	1587.50	136,374	--	--
	28-Apr-04	128.60	0.00	140,662	--	--
	7-May-04	128.72	1489.10	142,175	--	--
	13-May-04	128.66	0.00	142,913	--	--
	27-May-04	128.69	0.00	145,015	27.1	316
	3-Jun-04	128.81	1403.80	146,427	--	--
	8-Jul-04	128.76	0.00	151,757	--	--
	20-Jul-04	128.70	0.00	521,213	--	--
	6-Aug-04	128.67	0.00	522,877	31.8	338
	17-Aug-04	128.71	0.00	524,952	--	--
	24-Aug-04	128.64	0.00	525,793	--	--
	30-Aug-04	128.65	0.00	527,041	--	--
	8-Sep-04	128.59	0.00	528,688	--	--
	13-Sep-04	128.61	0.00	529,509	--	--
	20-Sep-04	128.57	0.00	530,699	--	--
	21-Oct-04	128.37	0.00	535,744	--	--
	26-Oct-04	128.34	0.00	536,895	--	--
	12-Nov-04	128.19	1659.60	539,399	--	--
	5-Jan-05	127.82	0.00	550,929	--	--
	3-Mar-05	127.79	0.00	--	25.3	232
TW-23	15-May-03	124.42	--	--	1440	--
	23-Jun-03	124.31	--	--	--	--
	02-Jul-03	128.53	--	--	--	--
	11-Jul-03	124.56	--	--	--	--
	08-Aug-03	124.13	--	--	--	--
	26-Aug-03	124.26	--	--	--	--
	3-Sep-03	128.02	1443.20	24,655	--	--
	18-Sep-03	128.02	1476.00	31,920	--	--
	3-Oct-03	126.93	1436.60	38,255	--	--
	7-Oct-03	128.07	1489.10	41,083	--	--

Table 1
Summary of Field and Laboratory Data
ChevronTexaco Inc., Vacuum Field Unit, Case #1R279
Lea County, New Mexico

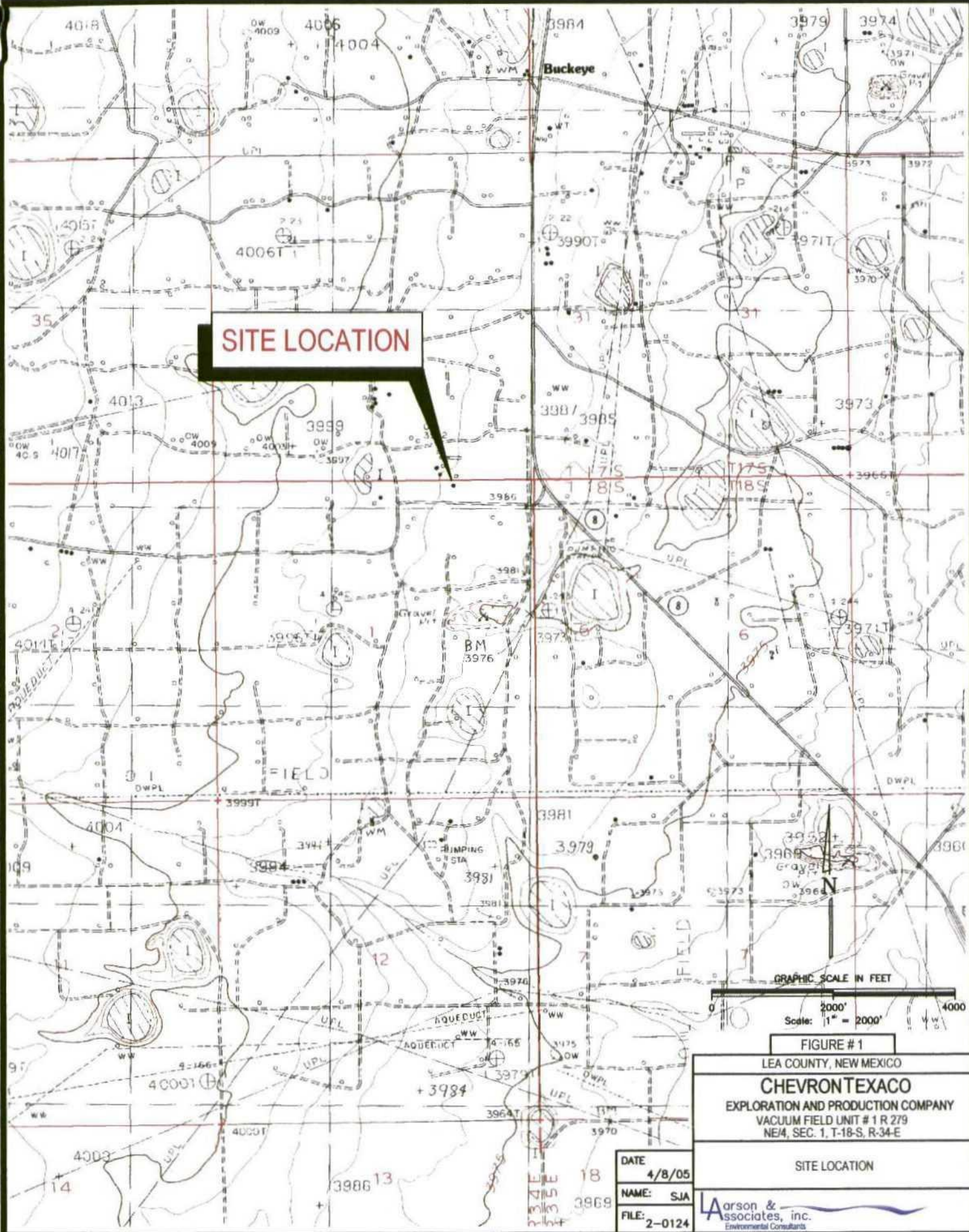
Page 7 of 8

Monitoring Well	Sample Date	Depth-to-Groundwater Feet TOC	Pumping Rate(BPD)	Total Flow(BBLs)	Chloride (mg/L)	TDS (mg/L)
TW-23	13-Oct-03	128.03	1469.40	43,965	--	--
	21-Oct-03	127.37	1436.20	46,962	--	--
	6-Nov-03	128.27	1626.80	55,594	--	--
	19-Nov-03	125.95	0.00	61,607	300	964
	3-Dec-03	128.45	1653.00	69,530	--	--
	23-Dec-03	127.17	1416.90	78,414	--	--
	21-Jan-04	128.12	1666.20	94,242	--	--
	2-Feb-04	127.57	1469.00	102,200	--	--
	11-Feb-04	124.16	0.00	107,770	117	603
	17-Feb-04	123.90	0.00	107,770	--	--
	9-Mar-04	125.20	0.00	115,194	--	--
	18-Mar-04	130.23	1489.10	121,755	--	--
	05-Apr-04	124.17	0.00	132,779	--	--
	12-Apr-04	128.30	1587.50	138,374	--	--
	28-Apr-04	123.87	0.00	140,682	--	--
	7-May-04	129.89	1489.10	142,175	--	--
	13-May-04	123.95	0.00	142,913	--	--
	27-May-04	123.94	0.00	145,015	617	1710
	3-Jun-04	125.96	1403.80	146,427	--	--
	8-Jul-04	123.99	0.00	151,757	--	--
	20-Jul-04	123.90	0.00	521,213	--	--
	5-Aug-04	124.03	0.00	522,877	919	2000
	17-Aug-04	124.10	0.00	524,952	--	--
	24-Aug-04	123.89	0.00	525,793	--	--
	30-Aug-04	123.91	0.00	527,041	--	--
	8-Sep-04	123.86	0.00	528,688	--	--
	13-Sep-04	123.89	0.00	529,509	--	--
	20-Sep-04	123.87	0.00	530,699	--	--
	21-Oct-04	123.19	0.00	535,744	--	--
	26-Oct-04	122.28	0.00	536,895	--	--
	12-Nov-04	127.01	1659.60	539,399	--	--
	5-Jan-05	123.50	0.00	550,929	--	--
	3-Mar-05	123.10	0.00	--	656	1680
RW-1	15-May-03	126.65	--	--	--	--
	23-Jun-03	126.56	--	--	--	--
	02-Jul-03	127.10	--	--	--	--
	11-Jul-03	5.68	--	--	--	--
	08-Aug-03	--	0.00	519,964	--	--
	26-Aug-03	--	--	--	--	--
RW-2	15-May-03	127.21	--	--	--	--
	23-Jun-03	124.04	--	--	--	--
	02-Jul-03	127.29	--	--	--	--
	11-Jul-03	127.21	--	--	--	--
	08-Aug-03	126.85	--	--	--	--
	26-Aug-03	126.92	--	--	--	--
	3-Sep-03	127.31	1443.20	24,655	--	--
	18-Sep-03	127.26	1476.00	31,920	--	--
	3-Oct-03	127.11	1436.60	38,255	--	--
	7-Oct-03	127.40	1489.10	41,083	--	--
	13-Oct-03	127.45	1469.40	43,965	--	--
	21-Oct-03	127.25	1436.20	46,962	--	--
	6-Nov-03	127.56	1626.80	55,594	--	--
	18-Nov-03	127.32	0.00	61,607	--	--
	3-Dec-03	127.46	1653.00	69,530	--	--
	23-Dec-03	127.05	1416.90	78,414	--	--
	21-Jan-04	127.20	1666.20	94,242	--	--
	2-Feb-04	127.21	1469.00	102,200	--	--
	11-Feb-04	126.84	0.00	107,770	--	--
	17-Feb-04	126.68	0.00	107,770	--	--
	9-Mar-04	127.08	0.00	115,194	--	--
	18-Mar-04	127.24	1489.10	121,755	--	--
	05-Apr-04	126.95	0.00	132,779	--	--
	12-Apr-04	127.46	1587.50	138,374	--	--
	28-Apr-04	126.77	0.00	140,682	--	--
	7-May-04	127.04	1489.10	142,175	--	--
	13-May-04	126.82	0.00	142,913	--	--
	28-May-04	126.82	0.00	145,015	30.4	306
	3-Jun-04	127.01	1403.80	146,427	--	--
	8-Jul-04	126.95	0.00	151,757	--	--

Page 8 of 8

Notes:

FIGURES



SW/4 of SE/4

SE/4 of SE/4

NW/4 of NE/4

NE/4 of NE/4

DYNEGY GAS PLANT

COUNTY ROAD 57

T-17-S
T-18-S

36 31
1 6

R-34-E
R-35-E

MONITORING WELL DATA

WELL NUMBER	GROUND ELEVATION (FEET AMSL)	TOP OF CASING ELEVATION (FEET AMSL)
MW-1	3988.48	3990.85
MW-2	3988.71	3991.08
MW-3	3989.65	3991.75
MW-4	3989.25	3991.57
MW-5	3989.68	3992.12
MW-6	3989.38	3991.94
MW-7	3990.28	3992.89
MW-8	3988.83	3991.27
MW-9	3986.41	3990.40
MW-10	3989.74	3992.85
MW-11	3988.90	3991.74
MW-12	3986.61	3989.62
MW-13	3987.47	3990.60
MW-14	3988.30	3991.27
MW-15	3989.20	3992.42
MW-16	3986.60	3989.17
MW-17	3987.62	3989.92
MW-18	3987.84	3989.96
MW-19	3989.02	3991.32
MW-20	3990.42	3992.62
MW-21	3991.29	3993.71
RW-1	3985.84	3986.89
RW-2	3986.25	3987.04
RW-3	3982.72	3984.18
TW-9	3985.48	3988.69
TW-10	3985.57	3987.87
TW-11	3986.51	3989.11
TW-13	3986.57	3988.73
TW-14	3984.63	3986.77
TW-15	3981.74	3984.14
TW-17	3983.23	3986.01
TW-19	3982.34	3985.70
TW-20	3986.38	3988.40
TW-23	3981.60	3984.58
WW-1	3989.37	3990.00

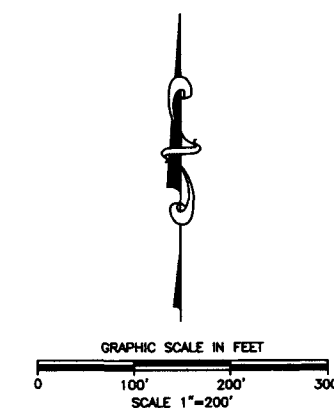


FIGURE # 2

LEA COUNTY, NEW MEXICO

CHEVRONTXACO

EXPLORATION AND PRODUCTION COMPANY

VACUUM FIELD UNIT # 1 R 279

NE/4, SEC. 1, T-18-S, R-34-E

SITE DRAWING

DATE
4/8/05

NAME: SJA

FILE: 2-0124

Larson & Associates, inc.
Environmental Consultants

LEGEND

- MW-11 ● MONITORING WELL LOCATION
- TW-17 △ TEST WELL LOCATION
- RW-3 ○ RECOVERY WELL LOCATION

SW/4 of SE/4

SE/4 of SE/4

NW/4 of NE/4

DYNEGY GAS PLANT

COUNTY ROAD 57

T-17-S
T-18-S

36 31
1 6

R-34-E
R-35-E

NE/4 of NE/4

MONITORING WELL DATA

WELL NUMBER	GROUND ELEVATION (FEET AMSL)	TOP OF CASING ELEVATION (FEET AMSL)
MW-1	3988.48	3990.85
MW-2	3988.71	3991.06
MW-3	3989.65	3991.75
MW-4	3989.25	3991.57
MW-5	3989.68	3992.12
MW-6	3989.38	3991.94
MW-7	3990.28	3992.89
MW-8	3988.83	3991.27
MW-9	3988.41	3990.40
MW-10	3989.74	3992.85
MW-11	3988.90	3991.74
MW-12	3986.61	3989.62
MW-13	3987.47	3990.60
MW-14	3988.30	3991.27
MW-15	3989.20	3992.42
MW-16	3986.80	3989.17
MW-17	3987.62	3989.92
MW-18	3987.84	3989.96
MW-19	3989.02	3991.32
MW-20	3990.42	3992.62
MW-21	3991.29	3993.71
RW-1	3985.84	3986.89
RW-2	3986.25	3987.04
RW-3	3982.72	3984.18
TW-9	3985.48	3988.69
TW-10	3985.57	3987.87
TW-11	3986.51	3989.11
TW-13	3986.57	3988.73
TW-14	3984.63	3986.77
TW-15	3981.74	3984.14
TW-17	3983.23	3986.01
TW-19	3982.34	3985.70
TW-20	3986.38	3988.40
TW-23	3981.60	3984.58
WW-1	3989.37	3990.00



GRAPHIC SCALE IN FEET
0 100' 200' 300'
SCALE 1"=200'

FIGURE #3

LEA COUNTY, NEW MEXICO

CHEVRONT EXACO

EXPLORATION AND PRODUCTION COMPANY
VACUUM FIELD UNIT # 1 R 279
NE/4, SEC. 1, T-18-S, R-34-E

POTENTIOMETRIC GROUNDWATER
SURFACE MAP
MAY 26, 2004

DATE
4/8/05
NAME: SJA
FILE: 2-0124

Larson & Associates, Inc.
Environmental Consultants

LEGEND

- MW-11 ● MONITORING WELL LOCATION
- TW-17 △ TEST WELL LOCATION AND POTENTIOMETRIC GROUNDWATER SURFACE ELEVATION, FEET AMSL, 5/26/04
- RW-3 ○ RECOVERY WELL LOCATION AND POTENTIOMETRIC GROUNDWATER SURFACE ELEVATION, FEET AMSL, 5/26/04
- 3861.0 — CONTOUR OF POTENTIOMETRIC GROUNDWATER SURFACE ELEVATION, FEET AMSL, 5/26/04
- GROUNDWATER FLOW DIRECTION

SW/4 of SE/4

SE/4 of SE/4

DYNEGY GAS PLANT

T-17-S

T-18-S

36 31

1 6

R-34-E
R-35-E

COUNTY ROAD 57

NW/4 of NE/4

NE/4 of NE/4

LEGEND

- MW-11 ● MONITORING WELL LOCATION
- TW-17 △ TEST WELL LOCATION AND CHLORIDE CONCENTRATION IN GROUNDWATER, (MGL), 5/27/04 AND 5/28/04
- RW-3 ○ RECOVERY WELL LOCATION AND CHLORIDE CONCENTRATION IN GROUNDWATER, (MGL), 5/27/04 AND 5/28/04
- 100 — CONTOUR OF CHLORIDE CONCENTRATION IN GROUNDWATER, (MGL), 5/27/04 AND 5/28/04

MGL MILLIGRAMS PER LITER

MONITORING WELL DATA

WELL NUMBER	GROUND ELEVATION (FEET AMSL)	TOP OF CASING ELEVATION (FEET) AMSL
MW-1	3988.48	3990.85
MW-2	3988.71	3991.08
MW-3	3989.65	3991.75
MW-4	3989.25	3991.57
MW-5	3989.68	3992.12
MW-6	3989.38	3991.94
MW-7	3990.28	3992.89
MW-8	3989.83	3991.27
MW-9	3988.41	3990.40
MW-10	3989.74	3992.85
MW-11	3988.90	3991.74
MW-12	3988.61	3989.62
MW-13	3987.47	3990.60
MW-14	3988.30	3991.27
MW-15	3989.20	3992.42
MW-16	3986.60	3989.17
MW-17	3987.62	3989.62
MW-18	3987.84	3989.96
MW-19	3989.02	3991.32
MW-20	3990.42	3992.62
MW-21	3991.29	3993.71
RW-1	3985.84	3986.89
RW-2	3985.25	3987.04
RW-3	3982.72	3984.18
TW-9	3985.48	3988.69
TW-10	3985.57	3987.87
TW-11	3986.51	3989.11
TW-13	3986.57	3988.73
TW-14	3984.63	3986.77
TW-15	3981.74	3984.14
TW-17	3983.23	3986.01
TW-19	3982.34	3985.70
TW-20	3985.36	3988.40
TW-23	3981.60	3984.58
WW-1	3989.37	3990.00



FIGURE #4

LEA COUNTY, NEW MEXICO

CHEVRONT EXACO

EXPLORATION AND PRODUCTION COMPANY
VACUUM FIELD UNIT # 1 R 279
NE/4, SEC. 1, T-18-S, R-34-E

ISOPLETH MAP OF CHLORIDE CONCENTRATIONS
IN GROUNDWATER
MAY 27-28, 2004

DATE
4/8/05
NAME: SJA
FILE: 2-0124

Larson &
Associates, inc.
Environmental Consultants

SW/4 of SE/4

SE/4 of SE/4

NW/4 of NE/4

NE/4 of NE/4

DYNEGY GAS PLANT

COUNTY ROAD 57

T-17-S

T-18-S

36 31

1 6

R-34-E
R-35-E

MONITORING WELL DATA

WELL NUMBER	GROUND ELEVATION (FEET AMSL)	TOP OF CASING ELEVATION (FEET AMSL)
MW-1	3988.48	3990.85
MW-2	3988.71	3991.08
MW-3	3989.65	3991.75
MW-4	3989.25	3991.57
MW-5	3989.58	3992.12
MW-6	3989.38	3991.84
MW-7	3990.28	3992.89
MW-8	3988.83	3991.27
MW-9	3986.41	3990.40
MW-10	3989.74	3992.85
MW-11	3988.90	3991.74
MW-12	3986.61	3989.62
MW-13	3987.47	3990.60
MW-14	3988.30	3991.27
MW-15	3989.20	3992.42
MW-16	3986.60	3989.17
MW-17	3987.62	3989.92
MW-18	3987.84	3989.96
MW-19	3989.02	3991.32
MW-20	3990.42	3992.62
MW-21	3991.29	3993.71
RW-1	3985.84	3986.89
RW-2	3985.25	3987.04
RW-3	3982.72	3984.18
TW-9	3985.48	3988.69
TW-10	3985.57	3987.87
TW-11	3985.51	3989.11
TW-13	3986.57	3988.73
TW-14	3984.63	3986.77
TW-15	3981.74	3984.14
TW-17	3983.23	3986.01
TW-19	3982.34	3985.70
TW-20	3986.38	3988.40
TW-23	3981.60	3984.58
WW-1	3989.37	3990.00



FIGURE # 5

LEA COUNTY, NEW MEXICO

CHEVRONT EXACO

EXPLORATION AND PRODUCTION COMPANY
VACUUM FIELD UNIT # 1 R 279
NE/4, SEC. 1, T-18-S, R-34-E

POTENTIOMETRIC GROUNDWATER
SURFACE MAP
AUGUST 4, 2004

DATE
4/8/05
NAME: SJA
FILE: 2-0124

Larson & Associates, Inc.
Environmental Consultants

LEGEND

- MW-11 ● MONITORING WELL LOCATION
- TW-17 △ TEST WELL LOCATION AND POTENTIOMETRIC GROUNDWATER SURFACE ELEVATION, FEET AMSL, 8/4/04
- RW-3 ○ RECOVERY WELL LOCATION AND POTENTIOMETRIC GROUNDWATER SURFACE ELEVATION, FEET AMSL, 8/4/04
- 3860.0 — CONTOUR OF POTENTIOMETRIC GROUNDWATER SURFACE ELEVATION, FEET AMSL, 8/4/04
- GROUNDWATER FLOW DIRECTION

SW/4 of SE/4

SE/4 of SE/4

DYNEGY GAS PLANT

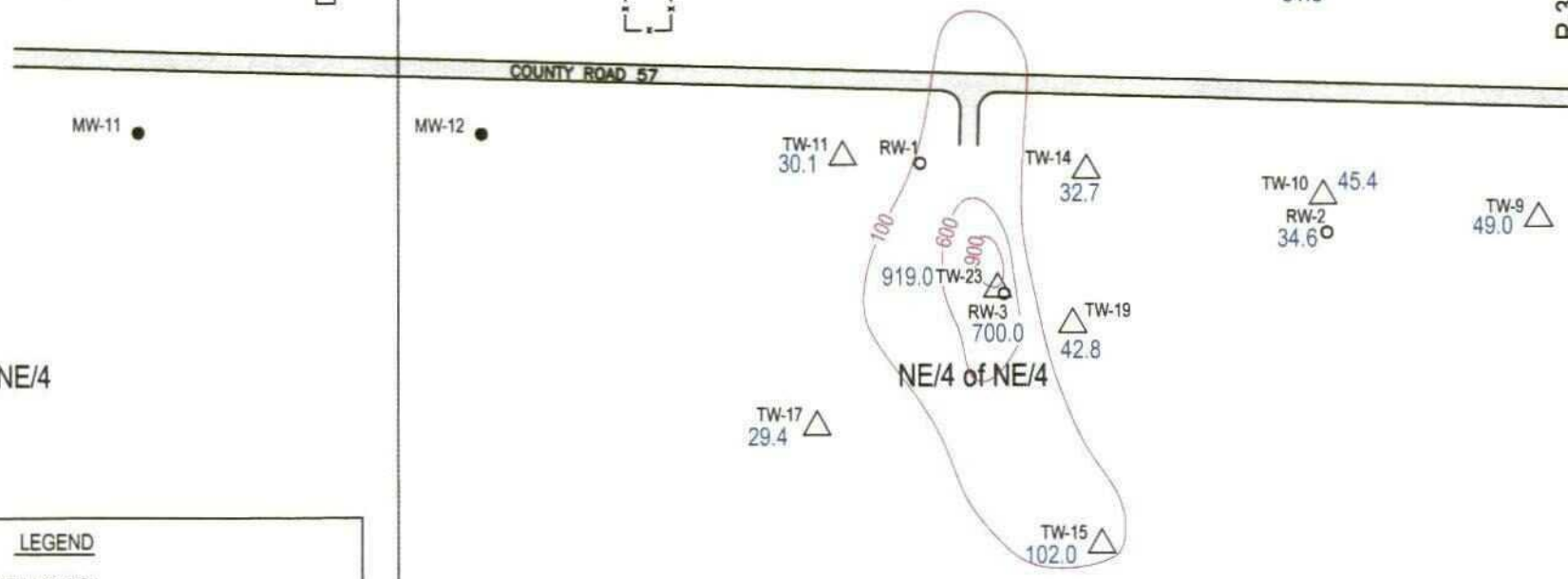
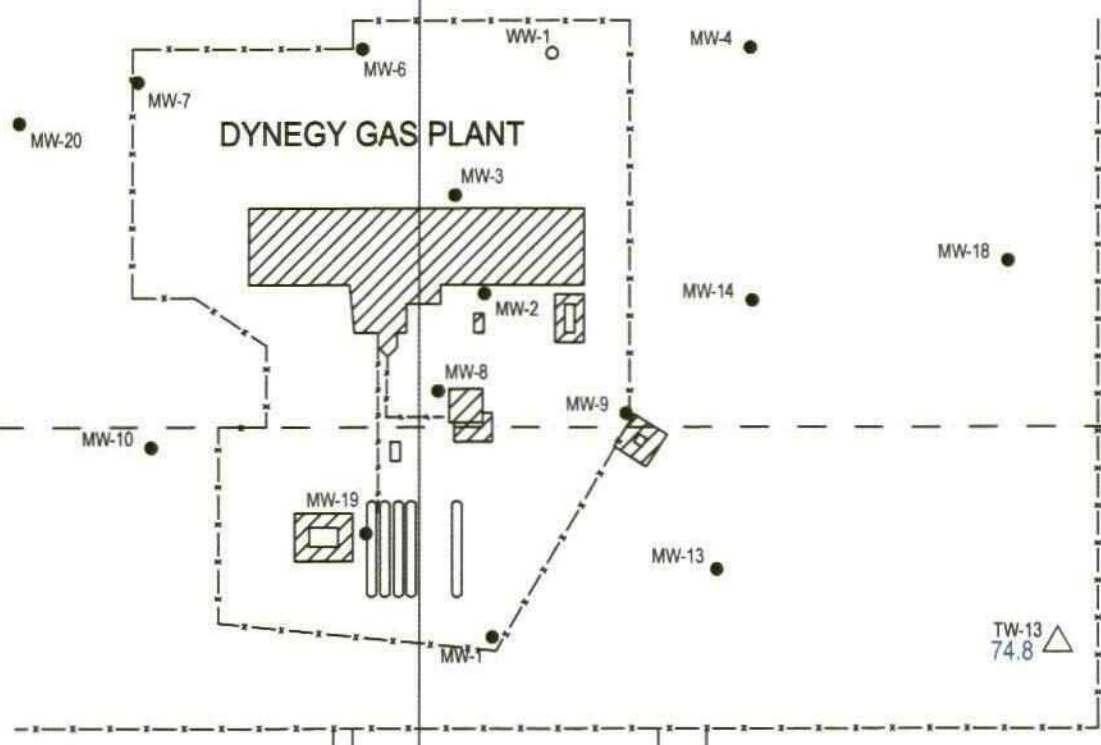
COUNTY ROAD 57

NW/4 of NE/4

NE/4 of NE/4

MONITORING WELL DATA

WELL NUMBER	GROUND ELEVATION (FEET AMSL)	TOP OF CASING ELEVATION (FEET AMSL)
MW-1	3988.48	3990.85
MW-2	3988.71	3991.08
MW-3	3989.65	3991.75
MW-4	3989.25	3991.57
MW-5	3989.66	3992.12
MW-6	3989.38	3991.94
MW-7	3990.28	3992.89
MW-8	3988.83	3991.27
MW-9	3986.41	3990.40
MW-10	3989.74	3992.85
MW-11	3988.90	3991.74
MW-12	3986.61	3989.62
MW-13	3987.47	3990.80
MW-14	3988.30	3991.27
MW-15	3989.20	3992.42
MW-16	3986.60	3989.17
MW-17	3987.62	3989.92
MW-18	3987.84	3989.96
MW-19	3989.02	3991.32
MW-20	3990.42	3992.62
MW-21	3991.29	3993.71
RW-1	3985.64	3986.89
RW-2	3986.25	3987.04
RW-3	3982.72	3984.18
TW-9	3985.48	3988.59
TW-10	3985.57	3987.87
TW-11	3986.51	3989.11
TW-13	3986.57	3988.73
TW-14	3984.63	3986.77
TW-15	3981.74	3984.14
TW-17	3983.23	3986.01
TW-19	3982.34	3985.70
TW-20	3986.38	3988.40
TW-23	3981.60	3984.58
WW-1	3989.37	3990.00



LEGEND

- MW-11 ● MONITORING WELL LOCATION
- TW-17 △ TEST WELL LOCATION AND CHLORIDE CONCENTRATION IN GROUNDWATER, (MG/L), 8/5/04 AND 8/6/04
- RW-3 ○ RECOVERY WELL LOCATION AND CHLORIDE CONCENTRATION IN GROUNDWATER, (MG/L), 8/5/04 AND 8/6/04
- 100 — CONTOUR OF CHLORIDE CONCENTRATION IN GROUNDWATER, (MG/L), 8/5/04 AND 8/6/04

MG/L MILLIGRAMS PER LITER

FIGURE #6

LEA COUNTY, NEW MEXICO

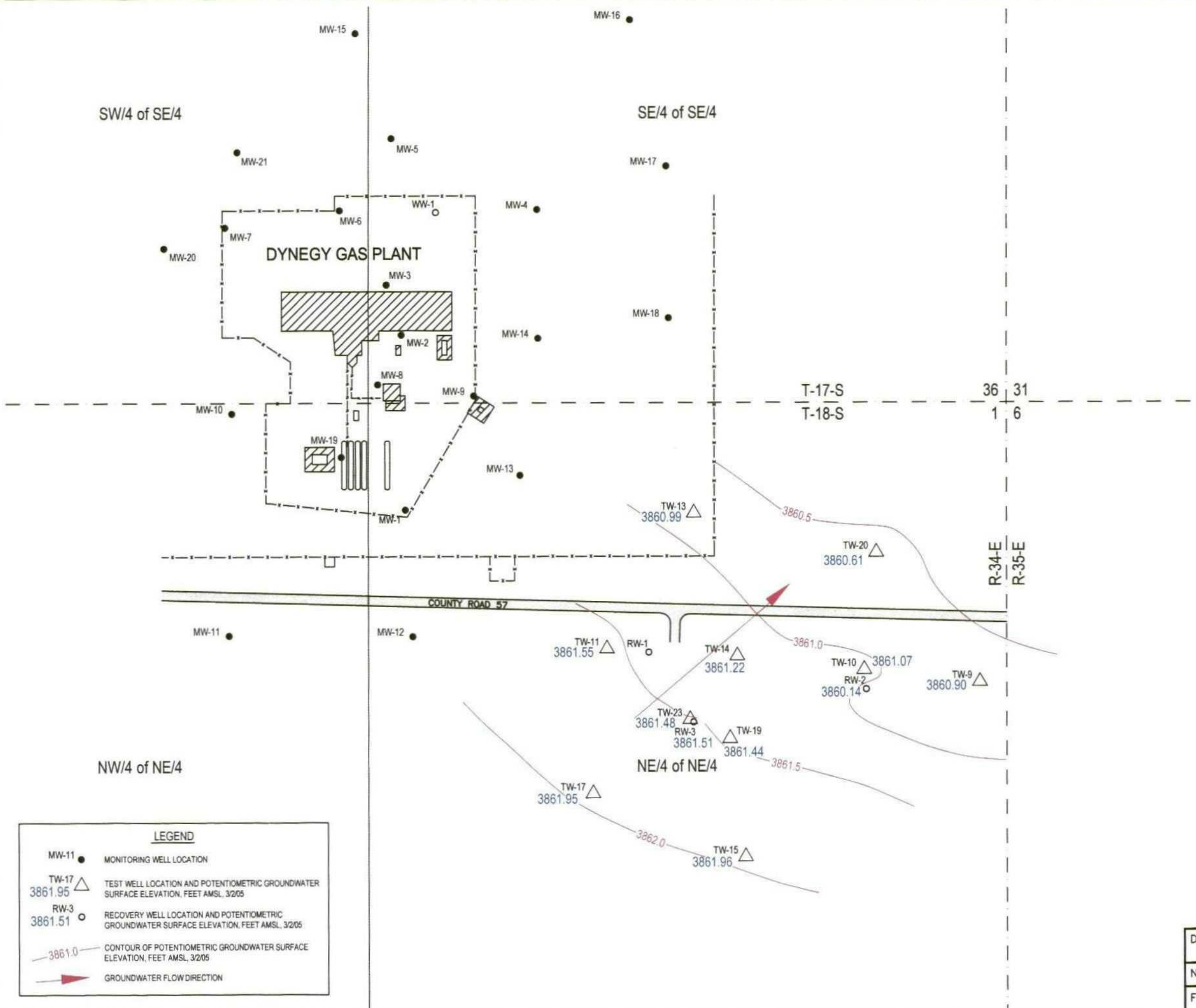
CHEVRONTXACO

EXPLORATION AND PRODUCTION COMPANY
VACUUM FIELD UNIT # 1 R 279
NE/4, SEC. 1, T-18-S, R-34-E

ISOPLETH MAP OF CHLORIDE CONCENTRATIONS
IN GROUNDWATER
AUGUST 5-6, 2004

DATE
4/8/05
NAME: SJA
FILE: 2-0124

Larson & Associates, Inc.
Environmental Consultants



MONITORING WELL DATA

WELL NUMBER	GROUND ELEVATION (FEET AMSL)	TOP OF CASING ELEVATION (FEET AMSL)
MW-1	3988.48	3990.85
MW-2	3988.71	3991.08
MW-3	3989.65	3991.75
MW-4	3989.25	3991.57
MW-5	3989.68	3992.12
MW-6	3989.38	3991.94
MW-7	3990.28	3992.89
MW-8	3988.83	3991.27
MW-9	3986.41	3990.40
MW-10	3989.74	3992.85
MW-11	3988.90	3991.74
MW-12	3986.61	3989.62
MW-13	3987.47	3990.60
MW-14	3988.30	3991.27
MW-15	3989.20	3992.42
MW-16	3986.60	3989.17
MW-17	3987.62	3989.92
MW-18	3987.84	3989.96
MW-19	3989.02	3991.32
MW-20	3990.42	3992.62
MW-21	3991.29	3993.71
RW-1	3985.84	3986.89
RW-2	3986.25	3987.04
RW-3	3982.72	3984.18
TW-9	3985.48	3988.69
TW-10	3985.57	3987.87
TW-11	3986.51	3989.11
TW-13	3986.57	3989.73
TW-14	3984.63	3986.77
TW-15	3981.74	3984.14
TW-17	3983.23	3986.01
TW-19	3982.34	3985.70
TW-20	3986.38	3988.40
TW-23	3981.60	3984.58
WW-1	3989.37	3990.00

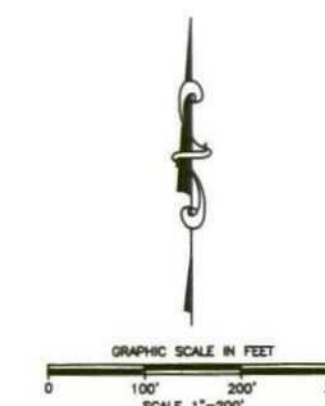


FIGURE #7

LEA COUNTY, NEW MEXICO

CHEVRONT EXACO

EXPLORATION AND PRODUCTION COMPANY

VACUUM FIELD UNIT # 1 R 279

NE/4, SEC. 1, T-18-S, R-34-E

POTENTIOMETRIC GROUNDWATER

SURFACE MAP

MARCH 2, 2005

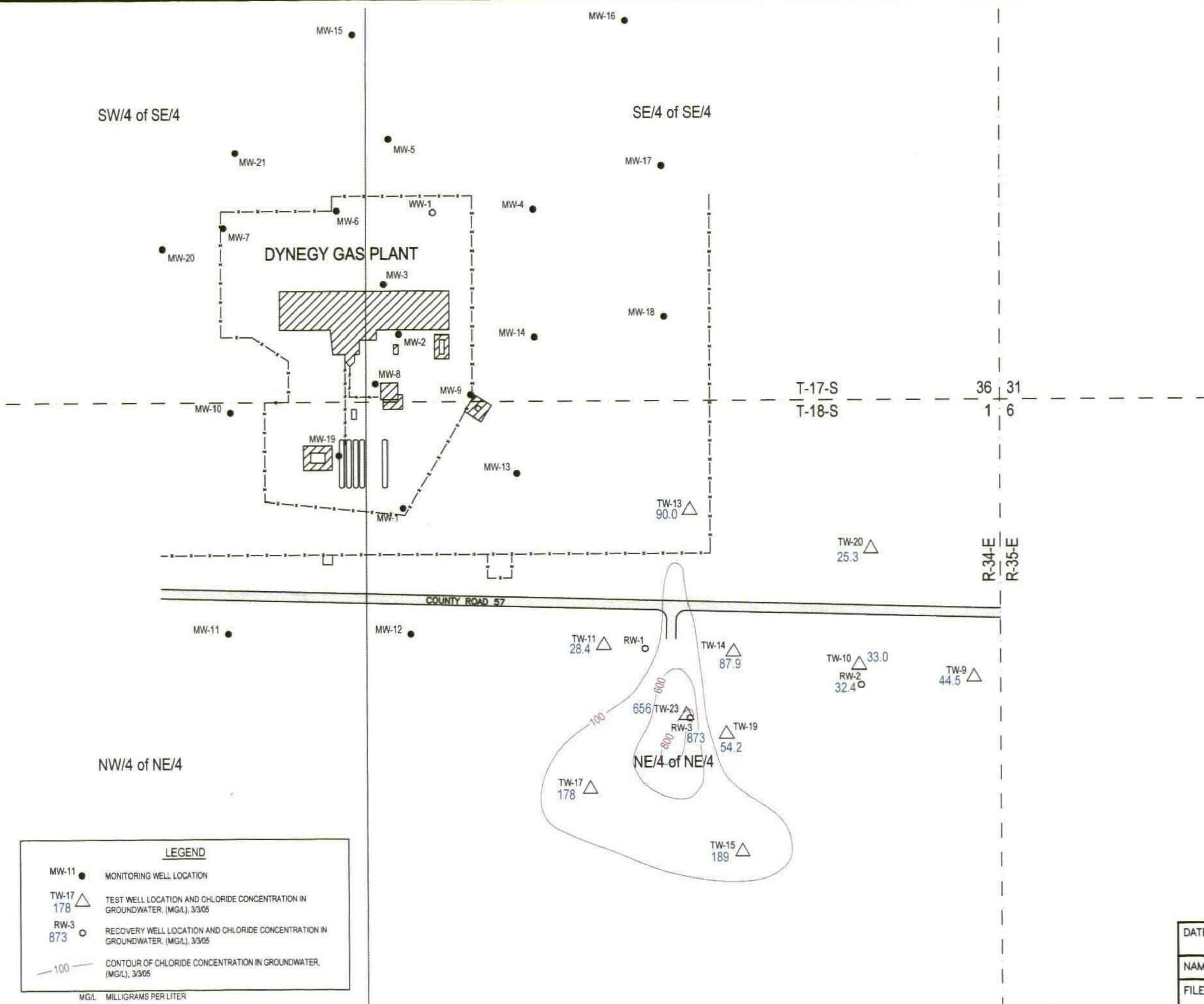
DATE

4/8/04

NAME: SJA

FILE: 2-0124

Larson & Associates, Inc.
Environmental Consultants



MONITORING WELL DATA

WELL NUMBER	GROUND ELEVATION (FEET AMSL)	TOP OF CASING ELEVATION (FEET) AMSL
MW-1	3988.48	3990.85
MW-2	3988.71	3991.08
MW-3	3989.65	3991.75
MW-4	3989.25	3991.57
MW-5	3989.68	3992.12
MW-6	3989.36	3991.94
MW-7	3990.28	3992.89
MW-8	3988.83	3991.27
MW-9	3986.41	3990.40
MW-10	3989.74	3992.85
MW-11	3988.90	3991.74
MW-12	3986.61	3989.62
MW-13	3987.47	3990.60
MW-14	3988.30	3991.27
MW-15	3989.20	3992.42
MW-16	3986.60	3989.17
MW-17	3987.62	3989.92
MW-18	3987.84	3989.96
MW-19	3989.02	3991.32
MW-20	3990.42	3992.62
MW-21	3991.29	3993.71
RW-1	3985.84	3986.89
RW-2	3986.25	3987.04
RW-3	3987.72	3984.18
TW-9	3985.48	3988.69
TW-10	3985.57	3987.87
TW-11	3986.51	3989.11
TW-13	3986.57	3988.73
TW-14	3984.63	3986.77
TW-15	3981.74	3984.14
TW-17	3983.23	3986.01
TW-19	3982.34	3985.70
TW-20	3986.38	3988.40
TW-23	3981.60	3984.58
WW-1	3989.37	3990.00



FIGURE # 8

LEA COUNTY, NEW MEXICO

CHEVRONT EXACO

EXPLORATION AND PRODUCTION COMPANY
VACUUM FIELD UNIT # 1 R 279
NE/4, SEC. 1, T-18-S, R-34-E

ISOPLETH MAP OF CHLORIDE CONCENTRATIONS
IN GROUNDWATER
MARCH 3, 2005

DATE
4/8/05
NAME: SJA
FILE: 2-0124

Larson & Associates, inc.
Environmental Consultants

LEGEND

- MW-11 ● MONITORING WELL LOCATION
 - TW-17 178 △ TEST WELL LOCATION AND CHLORIDE CONCENTRATION IN GROUNDWATER, (MG/L), 3/3/05
 - RW-3 873 ○ RECOVERY WELL LOCATION AND CHLORIDE CONCENTRATION IN GROUNDWATER, (MG/L), 3/3/05
 - 100 — CONTOUR OF CHLORIDE CONCENTRATION IN GROUNDWATER, (MG/L), 3/3/05
- MG/L MILLIGRAMS PER LITER

APPENDIX A

**LABORATORY ANALYSIS AND CHAIN OF CUSTODY
DOCUMENTATION**



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: June 7, 2004

Work Order: 4060105

Client Name: Chev Tx
Project Name: Buckeye CL
Project Number: 2-0124

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
35584	TW-17	water	2004-05-28	09:17	2004-05-29
35585	TW-11	water	2004-05-28	09:37	2004-05-29
35586	TW-14	water	2004-05-28	10:15	2004-05-29
35587	EW-2	water	2004-05-28	11:40	2004-05-29
35588	TW-10	water	2004-05-28	12:08	2004-05-29
35589	Dup	water	2004-05-27	00:00	2004-05-29
35590	TW-13	water	2004-05-27	12:25	2004-05-29
35591	TW-20	water	2004-05-27	12:54	2004-05-29
35592	TW-9	water	2004-05-27	13:15	2004-05-29
35593	TW-23	water	2004-05-27	13:41	2004-05-29
35594	EW-3	water	2004-05-27	13:45	2004-05-29
35595	TW-19	water	2004-05-27	14:06	2004-05-29
35596	TW-15	water	2004-05-27	14:27	2004-05-29
35597	Dup	water	2004-05-28	00:00	2004-05-29

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

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Blair Leftwich

Dr. Blair Leftwich, Director

Analytical Report

Sample: 35584 - TW-17

Analysis: Chloride (IC)
QC Batch: 10156
Prep Batch: 8992

Analytical Method: E 300.0
Date Analyzed: 2004-06-02
Sample Preparation: 2004-06-01

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		26.7	mg/L	5	0.500

Sample: 35584 - TW-17

Analysis: TDS
QC Batch: 10162
Prep Batch: 8992

Analytical Method: SM 2540C
Date Analyzed: 2004-06-02
Sample Preparation: 2004-06-01

Prep Method: N/A
Analyzed By: RS
Prepared By: JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		302.0	mg/L	1	10.00

Sample: 35585 - TW-11

Analysis: Chloride (IC)
QC Batch: 10156
Prep Batch: 8992

Analytical Method: E 300.0
Date Analyzed: 2004-06-02
Sample Preparation: 2004-06-01

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		27.0	mg/L	5	0.500

Sample: 35585 - TW-11

Analysis: TDS
QC Batch: 10162
Prep Batch: 8992

Analytical Method: SM 2540C
Date Analyzed: 2004-06-02
Sample Preparation: 2004-06-01

Prep Method: N/A
Analyzed By: RS
Prepared By: JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		274.0	mg/L	1	10.00

Sample: 35586 - TW-14

Analysis: Chloride (IC)
QC Batch: 10156
Prep Batch: 8992

Analytical Method: E 300.0
Date Analyzed: 2004-06-02
Sample Preparation: 2004-06-01

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

Report Date: June 7, 2004
2-0124

Work Order: 4060105
Buckeye CL

Page Number: 4 of 14

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		30.3	mg/L	5	0.500

Sample: 35586 - TW-14

Analysis: TDS	Analytical Method: SM 2540C	Prep Method: N/A
QC Batch: 10162	Date Analyzed: 2004-06-02	Analyzed By: RS
Prep Batch: 8997	Sample Preparation: 2004-06-01	Prepared By: JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		346.0	mg/L	1	10.00

Sample: 35587 - EW-2

Analysis: Chloride (IC)	Analytical Method: E 300.0	Prep Method: N/A
QC Batch: 10156	Date Analyzed: 2004-06-02	Analyzed By: JSW
Prep Batch: 8992	Sample Preparation: 2004-06-01	Prepared By: JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		30.4	mg/L	5	0.500

Sample: 35587 - EW-2

Analysis: TDS	Analytical Method: SM 2540C	Prep Method: N/A
QC Batch: 10240	Date Analyzed: 2004-06-04	Analyzed By: RS
Prep Batch: 9056	Sample Preparation: 2004-06-03	Prepared By: JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		306.0	mg/L	1	10.00

Sample: 35588 - TW-10

Analysis: Chloride (IC)	Analytical Method: E 300.0	Prep Method: N/A
QC Batch: 10156	Date Analyzed: 2004-06-02	Analyzed By: JSW
Prep Batch: 8992	Sample Preparation: 2004-06-01	Prepared By: JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		39.9	mg/L	5	0.500

Report Date: June 7, 2004
2-0124

Work Order: 4060105
Buckeye CL

Page Number: 5 of 14

Sample: 35588 - TW-10

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	10240	Date Analyzed:	2004-06-04	Analyzed By:	RS
Prep Batch:	9056	Sample Preparation:	2004-06-03	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		344.0	mg/L	1	10.00

Sample: 35589 - Dup

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	10156	Date Analyzed:	2004-06-02	Analyzed By:	JSW
Prep Batch:	8992	Sample Preparation:	2004-06-01	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		84.3	mg/L	10	0.500

Sample: 35589 - Dup

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	10240	Date Analyzed:	2004-06-04	Analyzed By:	RS
Prep Batch:	9056	Sample Preparation:	2004-06-03	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		651.0	mg/L	1	10.00

Sample: 35590 - TW-13

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	10214	Date Analyzed:	2004-06-04	Analyzed By:	JSW
Prep Batch:	9037	Sample Preparation:	2004-06-03	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		84.5	mg/L	10	0.500

Sample: 35590 - TW-13

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	10240	Date Analyzed:	2004-06-04	Analyzed By:	RS
Prep Batch:	9056	Sample Preparation:	2004-06-03	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		625.0	mg/L	1	10.00

Report Date: June 7, 2004
2-0124

Work Order: 4060105
Buckeye CL

Page Number: 6 of 14

Sample: 35591 - TW-20

Analysis: Chloride (IC)
QC Batch: 10214
Prep Batch: 9037

Analytical Method: E 300.0
Date Analyzed: 2004-06-04
Sample Preparation: 2004-06-03

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		27.1	mg/L	5	0.500

Sample: 35591 - TW-20

Analysis: TDS
QC Batch: 10240
Prep Batch: 9056

Analytical Method: SM 2540C
Date Analyzed: 2004-06-04
Sample Preparation: 2004-06-03

Prep Method: N/A
Analyzed By: RS
Prepared By: JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		316.0	mg/L	1	10.00

Sample: 35592 - TW-9

Analysis: Chloride (IC)
QC Batch: 10214
Prep Batch: 9037

Analytical Method: E 300.0
Date Analyzed: 2004-06-04
Sample Preparation: 2004-06-03

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		88.2	mg/L	5	0.500

Sample: 35592 - TW-9

Analysis: TDS
QC Batch: 10240
Prep Batch: 9056

Analytical Method: SM 2540C
Date Analyzed: 2004-06-04
Sample Preparation: 2004-06-03

Prep Method: N/A
Analyzed By: RS
Prepared By: JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		461.0	mg/L	1	10.00

Sample: 35593 - TW-23

Analysis: Chloride (IC)
QC Batch: 10214
Prep Batch: 9037

Analytical Method: E 300.0
Date Analyzed: 2004-06-04
Sample Preparation: 2004-06-03

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		617	mg/L	50	0.500

Report Date: June 7, 2004
2-0124

Work Order: 4060105
Buckeye CL

Page Number: 7 of 14

Sample: 35593 - TW-23

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	10240	Date Analyzed:	2004-06-04	Analyzed By:	RS
Prep Batch:	9056	Sample Preparation:	2004-06-03	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		1710	mg/L	2	10.00

Sample: 35594 - EW-3

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	10214	Date Analyzed:	2004-06-04	Analyzed By:	JSW
Prep Batch:	9037	Sample Preparation:	2004-06-03	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		338	mg/L	10	0.500

Sample: 35594 - EW-3

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	10240	Date Analyzed:	2004-06-04	Analyzed By:	RS
Prep Batch:	9056	Sample Preparation:	2004-06-03	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		854.0	mg/L	2	10.00

Sample: 35595 - TW-19

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	10214	Date Analyzed:	2004-06-04	Analyzed By:	JSW
Prep Batch:	9037	Sample Preparation:	2004-06-03	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		33.6	mg/L	5	0.500

Sample: 35595 - TW-19

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	10240	Date Analyzed:	2004-06-04	Analyzed By:	RS
Prep Batch:	9056	Sample Preparation:	2004-06-03	Prepared By:	JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		287.0	mg/L	1	10.00

Report Date: June 7, 2004
2-0124

Work Order: 4060105
Buckeye CL

Page Number: 8 of 14

Sample: 35596 - TW-15

Analysis: Chloride (IC)
QC Batch: 10214
Prep Batch: 9037

Analytical Method: E 300.0
Date Analyzed: 2004-06-04
Sample Preparation: 2004-06-03

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		93.4	mg/L	5	0.500

Sample: 35596 - TW-15

Analysis: TDS
QC Batch: 10240
Prep Batch: 9056

Analytical Method: SM 2540C
Date Analyzed: 2004-06-04
Sample Preparation: 2004-06-03

Prep Method: N/A
Analyzed By: RS
Prepared By: JSW

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		439.0	mg/L	1	10.00

Sample: 35597 - Dup

Analysis: Chloride (IC)
QC Batch: 10212
Prep Batch: 9036

Analytical Method: E 300.0
Date Analyzed: 2004-06-04
Sample Preparation: 2004-06-03

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		30.4	mg/L	5	0.500

Sample: 35597 - Dup

Analysis: TDS
QC Batch: 10242
Prep Batch: 9058

Analytical Method: SM 2540C
Date Analyzed: 2004-06-07
Sample Preparation: 2004-06-03

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

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		348.0	mg/L	1	10.00

Method Blank (1) QC Batch: 10156

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.337	mg/L	0.5

Method Blank (1) QC Batch: 10162

Parameter	Flag	MDL Result	Units	RL
Total Dissolved Solids		<5.000	mg/L	10

Method Blank (1) QC Batch: 10212

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.337	mg/L	0.5

Method Blank (1) QC Batch: 10214

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.337	mg/L	0.5

Method Blank (1) QC Batch: 10240

Parameter	Flag	MDL Result	Units	RL
Total Dissolved Solids		<5.000	mg/L	10

Method Blank (1) QC Batch: 10242

Parameter	Flag	MDL Result	Units	RL
Total Dissolved Solids		<5.000	mg/L	10

Duplicate (1) QC Batch: 10162

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	364.0	346.0	mg/L	1	5	8.7

Duplicate (1) QC Batch: 10240

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	1742	1710	mg/L	2	2	8.7

Duplicate (1) QC Batch: 10242

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	790.0	786.0	mg/L	2	0	8.7

Laboratory Control Spike (LCS-1) QC Batch: 10156

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	11.3	11.3	mg/L	1	12.5	<0.337	90	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: 10212

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	11.8	11.7	mg/L	1	12.5	<0.337	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: 10214

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	11.9	11.9	mg/L	1	12.5	<0.337	95	0	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: 10156 Spiked Sample: 35566

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	1190	1190	mg/L	50	12.5	639	88	0	74.3 - 118	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: 10212 Spiked Sample: 35662

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	684	676	mg/L	50	12.5	<16.8	109	1	74.3 - 118	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: 10214 Spiked Sample: 35593

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	1190	1180	mg/L	50	12.5	617	92	1	74.3 - 118	20

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

Standard (ICV-1) QC Batch: 10156

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.3	90	90 - 110	2004-06-02

Standard (CCV-1) QC Batch: 10156

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	2004-06-02

Standard (ICV-1) QC Batch: 10162

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1028	103	90 - 110	2004-06-02

Standard (CCV-1) QC Batch: 10162

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	2004-06-02

Standard (ICV-1) QC Batch: 10212

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	2004-06-04

Standard (CCV-1) QC Batch: 10212

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.8	94	90 - 110	2004-06-04

Standard (ICV-1) QC Batch: 10214

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.8	94	90 - 110	2004-06-04

Standard (CCV-1) QC Batch: 10214

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	2004-06-04

Standard (ICV-1) QC Batch: 10240

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	2004-06-04

Standard (CCV-1) QC Batch: 10240

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1010	101	90 - 110	2004-06-04

Standard (ICV-1) QC Batch: 10242

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1010	101	90 - 110	2004-06-07

Standard (CCV-1) QC Batch: 10242

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1010	101	90 - 110	2004-06-07

4060105

CLIENT NAME: <u>Chas Ty</u>				SITE MANAGER: <u>Curly Crum</u>				CHAIN—OF—CUSTODY RECORD			
PROJECT NO.: <u>2-0124</u>				PROJECT NAME: <u>Buckeye Chloride Run</u>				LABORATORY: <u>LA</u>			
PAGE 1 OF 2				LAB. PO #				507 N. Marienfeld, Ste. 202 • Midland, TX 79701			
DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	PARAMETERS/METHOD NUMBER	LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)		
3/24/04	17:17	✓			T2J-17	35584					
09/37		✓			T2J-11	85					
10/15		✓			T2J-14	86					
11/10		✓			FEJ-2	87					
12/38		✓			T2J-10	88					
SAMPLED BY: (Signature) <u>[Signature]</u> DATE: <u>5/28/04</u> TIME: <u>17:15</u> RELINQUISHED BY: (Signature) <u>[Signature]</u> DATE: <u>5/28/04</u> TIME: <u>17:30</u> RECEIVED BY: (Signature) <u>[Signature]</u> DATE: <u>5/28/04</u> TIME: <u>17:30</u> RECEIVED BY: (Signature) <u>[Signature]</u> DATE: <u>5/28/04</u> TIME: <u>17:30</u> COMMENTS: <u>4" Turnaround time needed</u>											
RECEIVING LABORATORY: <u>LA</u>				RECEIVED BY: (Signature) <u>[Signature]</u>				WHITE - RECEIVING LAB			
ADDRESS: <u>507 N. Marienfeld</u>				DATE: <u>5/28/04</u> TIME: <u>17:30</u>				YELLOW - RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)			
CITY: <u>Midland</u>				STATE: <u>TX</u> ZIP: <u>79701</u>				PINK - PROJECT MANAGER			
CONTACT: <u>[Signature]</u>				PHONE: <u>[Signature]</u>				GOLD - QA/QC COORDINATOR			
SAMPLE CONDITION WHEN RECEIVED:				LA CONTACT PERSON: <u>[Signature]</u>				SAMPLE TYPE:			

5 sample - 115

Σ samples - 113

35584-96

41060105

CLIENT NAME: <u>Chas TX</u>				SITE MANAGER: <u>Lindy Channing</u>		PARAMETERS/METHOD NUMBER		CHAIN—OF—CUSTODY RECORD	
PROJECT NO.: <u>2-01514</u>				PROJECT NAME: <u>Buckeye Chloride Band</u>		NUMBER OF CONTAINERS		LAB. I.D. NUMBER (LAB USE ONLY)	
PAGE <u>1</u> OF <u>2</u>				LAB. PO #		SAMPLE IDENTIFICATION		REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)	
DATE	TIME	WATER	SOIL	OTHER					
5/21/04	0917	✓			TW-17	35584	1		
	0937	✓			TW-11	85			
	1015	✓			TW-14	86			
	1140	✓			EW-2	87			
	1238	✓			TW-10	88			
SAMPLED BY: (Signature) <u>[Signature]</u> DATE: <u>5/28/04</u> TIME: <u>1710</u> RECEIVED BY: (Signature) <u>[Signature]</u> DATE: <u>5/28/04</u> TIME: <u>1710</u>									
RELINQUISHED BY: (Signature) <u>[Signature]</u> DATE: <u>5/28/04</u> TIME: <u>1715</u> RECEIVED BY: (Signature) <u>[Signature]</u> DATE: <u>5/29/04</u> TIME: <u>1050</u>									
COMMENTS: <u>4" STN!</u>									
RECEIVING LABORATORY: <u>LA</u> RECEIVED BY: (Signature) <u>[Signature]</u>									
ADDRESS: <u>507 N. Marientfeld, Ste. 202 • Midland, TX 79701</u>									
CITY: <u>Midland</u> STATE: <u>TX</u> ZIP: <u>79701</u>									
CONTACT: <u>Lindy Channing</u> PHONE: <u>432-687-0901</u>									
SAMPLE CONDITION WHEN RECEIVED: <u>6 samples - Hs</u>									
SAMPLE TYPE: <u>LA</u>									

418618

CHAIN—OF—CUSTODY RECORD

LA arson & 
associates, Inc., Fax: 432-687-0456
Environmental Consultants
432-687-0901

507 N. Marienfeld, Ste. 202 • Midland, TX 79701

REMARKS
(I.E., FILTERED, UNFILTERED,
PRESERVED, UNPRESERVED,
GRAB COMPOSITE)

LAB. I.D.
NUMBER
(LAB USE ONLY)

PARAMETERS/METHOD NUMBER

NUMBER OF CONTAINERS

SITE MANAGER:	Conley Canning
PROJECT NAME:	Buckeye Offside Ranch
PO #	

LAB. PO #

SAMPLE IDENTIFICATION

WATER	SOIL	OTHER
-------	------	-------

TIME

✓	1225	TW-13	35590
✓	1254	TW-20	91
✓	1315	TW-9	92
✓	1341	TW-23	93
✓	1345	EW-3	94
✓	1406	TW-19	95
✓	1427	TW-15	96

3337	RELINQUISHED BY: (Signature) <i>Tom Ned</i>
	RECEIVED BY: (Signature) <i>Robert V. Peters</i>

DATE: 5/27/04
TIME: 4:50
DATE: 5/28/04
TIME: 1730

Signature: _____

SAMPLED BY: (Signature)

RETURNED BY: (Signature)

3337	RELINQUISHED BY: (Signature) <i>Tom Ned</i>
	RECEIVED BY: (Signature) <i>Robert V. Peters</i>

DATE: 5/27/04
TIME: 4:50
DATE: 5/28/04
TIME: 1730

Signature: _____

SAMPLED BY: (Signature)

RETURNED BY: (Signature)

TURNAROUND TIME NEEDED

TIME: 1050

ON:

LA CONTACT PERSON

100

Figure 3

RECEIVED:

CONTACT: _____

SAMPLE CONDITION WHEN RECEIVED: _____

3 samples - HS

4/060105

6 sample - 45

61849

[illegible]

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
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El Paso, Texas 79932

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888•588•3443
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806•794•1296
915•585•3443

FAX 806•794•1298
FAX 915•585•4944

Analytical and Quality Control Report

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

Report Date: August 12, 2004

Work Order: 4080923

Client Name: Chev Tx
Project Name: Buckeye CL
Project Number: 2-0124

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
41009	TW-23	water	2004-08-05	10:25	2004-08-07
41010	TW-19	water	2004-08-05	10:58	2004-08-07
41011	TW-15	water	2004-08-05	11:30	2004-08-07
41012	TW-17	water	2004-08-05	11:55	2004-08-07
41013	TW-11	water	2004-08-05	12:45	2004-08-07
41014	TW-14	water	2004-08-05	13:20	2004-08-07
41015	DUP #1	water	2004-08-05	00:00	2004-08-07
41016	EW-3	water	2004-08-06	09:28	2004-08-07
41017	EW-2	water	2004-08-06	09:54	2004-08-07
41018	TW-10	water	2004-08-06	10:36	2004-08-07
41019	TW-9	water	2004-08-06	11:05	2004-08-07
41020	TW-20	water	2004-08-06	11:55	2004-08-07
41021	TW-13	water	2004-08-06	11:46	2004-08-07
41022	DUP #2	water	2004-08-06	00:00	2004-08-07

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

This report consists of a total of 13 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.


Dr. Blair Leftwich, Director

Analytical Report

Sample: 41009 - TW-23

Analysis: Chloride (IC)
QC Batch: 11867
Prep Batch: 10492

Analytical Method: E 300.0
Date Analyzed: 2004-08-09
Date Prepared: 2004-08-09

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		919	mg/L	100	0.500

Sample: 41009 - TW-23

Analysis: TDS
QC Batch: 11853
Prep Batch: 10464

Analytical Method: SM 2540C
Date Analyzed: 2004-08-11
Date Prepared: 2004-08-10

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

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		2000	mg/L	5	10.00

Sample: 41010 - TW-19

Analysis: Chloride (IC)
QC Batch: 11867
Prep Batch: 10492

Analytical Method: E 300.0
Date Analyzed: 2004-08-09
Date Prepared: 2004-08-09

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		42.8	mg/L	5	0.500

Sample: 41010 - TW-19

Analysis: TDS
QC Batch: 11853
Prep Batch: 10464

Analytical Method: SM 2540C
Date Analyzed: 2004-08-11
Date Prepared: 2004-08-10

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

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		344.0	mg/L	1	10.00

Sample: 41011 - TW-15

Analysis: Chloride (IC)
QC Batch: 11824
Prep Batch: 10442

Analytical Method: E 300.0
Date Analyzed: 2004-08-09
Date Prepared: 2004-08-09

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		102	mg/L	5	0.500

Sample: 41011 - TW-15

Analysis: TDS	Analytical Method: SM 2540C	Prep Method: N/A
QC Batch: 11853	Date Analyzed: 2004-08-11	Analyzed By: WB
Prep Batch: 10464	Date Prepared: 2004-08-10	Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		545.0	mg/L	1	10.00

Sample: 41012 - TW-17

Analysis: Chloride (IC)	Analytical Method: E 300.0	Prep Method: N/A
QC Batch: 11824	Date Analyzed: 2004-08-09	Analyzed By: MW
Prep Batch: 10442	Date Prepared: 2004-08-09	Prepared By: MW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		29.4	mg/L	5	0.500

Sample: 41012 - TW-17

Analysis: TDS	Analytical Method: SM 2540C	Prep Method: N/A
QC Batch: 11853	Date Analyzed: 2004-08-11	Analyzed By: WB
Prep Batch: 10464	Date Prepared: 2004-08-10	Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		306.0	mg/L	1	10.00

Sample: 41013 - TW-11

Analysis: Chloride (IC)	Analytical Method: E 300.0	Prep Method: N/A
QC Batch: 11824	Date Analyzed: 2004-08-09	Analyzed By: MW
Prep Batch: 10442	Date Prepared: 2004-08-09	Prepared By: MW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		30.1	mg/L	5	0.500

Sample: 41013 - TW-11

Analysis: TDS	Analytical Method: SM 2540C	Prep Method: N/A
QC Batch: 11853	Date Analyzed: 2004-08-11	Analyzed By: WB

Report Date: August 12, 2004
2-0124

Work Order: 4080923
Buckeye CL

Page Number: 4 of 13

Prep Batch: 10464

Date Prepared: 2004-08-10

Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		269.0	mg/L	1	10.00

Sample: 41014 - TW-14

Analysis: Chloride (IC)

Analytical Method: E 300.0

Prep Method: N/A

QC Batch: 11824

Date Analyzed: 2004-08-09

Analyzed By: MW

Prep Batch: 10442

Date Prepared: 2004-08-09

Prepared By: MW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		32.7	mg/L	5	0.500

Sample: 41014 - TW-14

Analysis: TDS

Analytical Method: SM 2540C

Prep Method: N/A

QC Batch: 11853

Date Analyzed: 2004-08-11

Analyzed By: WB

Prep Batch: 10464

Date Prepared: 2004-08-10

Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		347.0	mg/L	1	10.00

Sample: 41015 - DUP #1

Analysis: Chloride (IC)

Analytical Method: E 300.0

Prep Method: N/A

QC Batch: 11824

Date Analyzed: 2004-08-09

Analyzed By: MW

Prep Batch: 10442

Date Prepared: 2004-08-09

Prepared By: MW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		29.7	mg/L	5	0.500

Sample: 41015 - DUP #1

Analysis: TDS

Analytical Method: SM 2540C

Prep Method: N/A

QC Batch: 11853

Date Analyzed: 2004-08-11

Analyzed By: WB

Prep Batch: 10464

Date Prepared: 2004-08-10

Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		272.0	mg/L	1	10.00

Sample: 41016 - EW-3

Report Date: August 12, 2004
2-0124

Work Order: 4080923
Buckeye CL

Page Number: 5 of 13

Analysis: Chloride (IC)
QC Batch: 11824
Prep Batch: 10442

Analytical Method: E 300.0
Date Analyzed: 2004-08-09
Date Prepared: 2004-08-09

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		700	mg/L	50	0.500

Sample: 41016 - EW-3

Analysis: TDS
QC Batch: 11991
Prep Batch: 10593

Analytical Method: SM 2540C
Date Analyzed: 2004-08-16
Date Prepared: 2004-08-13

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

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		1620	mg/L	2	10.00

Sample: 41017 - EW-2

Analysis: Chloride (IC)
QC Batch: 11824
Prep Batch: 10442

Analytical Method: E 300.0
Date Analyzed: 2004-08-09
Date Prepared: 2004-08-09

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		34.6	mg/L	5	0.500

Sample: 41017 - EW-2

Analysis: TDS
QC Batch: 11991
Prep Batch: 10593

Analytical Method: SM 2540C
Date Analyzed: 2004-08-16
Date Prepared: 2004-08-13

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

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		354.0	mg/L	1	10.00

Sample: 41018 - TW-10

Analysis: Chloride (IC)
QC Batch: 11824
Prep Batch: 10442

Analytical Method: E 300.0
Date Analyzed: 2004-08-09
Date Prepared: 2004-08-09

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		45.4	mg/L	5	0.500

Report Date: August 12, 2004
2-0124

Work Order: 4080923
Buckeye CL

Page Number: 6 of 13

Sample: 41018 - TW-10

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	11991	Date Analyzed:	2004-08-16	Analyzed By:	RS
Prep Batch:	10593	Date Prepared:	2004-08-13	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		354.0	mg/L	1	10.00

Sample: 41019 - TW-9

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	11824	Date Analyzed:	2004-08-09	Analyzed By:	MW
Prep Batch:	10442	Date Prepared:	2004-08-09	Prepared By:	MW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		49.0	mg/L	5	0.500

Sample: 41019 - TW-9

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	11991	Date Analyzed:	2004-08-16	Analyzed By:	RS
Prep Batch:	10593	Date Prepared:	2004-08-13	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		385.0	mg/L	1	10.00

Sample: 41020 - TW-20

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	11824	Date Analyzed:	2004-08-09	Analyzed By:	MW
Prep Batch:	10442	Date Prepared:	2004-08-09	Prepared By:	MW

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		31.8	mg/L	5	0.500

Sample: 41020 - TW-20

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	11991	Date Analyzed:	2004-08-16	Analyzed By:	RS
Prep Batch:	10593	Date Prepared:	2004-08-13	Prepared By:	RS

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		338.0	mg/L	1	10.00

Report Date: August 12, 2004
2-0124

Work Order: 4080923
Buckeye CL

Page Number: 7 of 13

Sample: 41021 - TW-13

Analysis: Chloride (IC)
QC Batch: 11825
Prep Batch: 10443

Analytical Method: E 300.0
Date Analyzed: 2004-08-09
Date Prepared: 2004-08-09

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		74.8	mg/L	5	0.500

Sample: 41021 - TW-13

Analysis: TDS
QC Batch: 11991
Prep Batch: 10593

Analytical Method: SM 2540C
Date Analyzed: 2004-08-16
Date Prepared: 2004-08-13

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

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		596.0	mg/L	1	10.00

Sample: 41022 - DUP #2

Analysis: Chloride (IC)
QC Batch: 11825
Prep Batch: 10443

Analytical Method: E 300.0
Date Analyzed: 2004-08-09
Date Prepared: 2004-08-09

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

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		34.1	mg/L	5	0.500

Sample: 41022 - DUP #2

Analysis: TDS
QC Batch: 11991
Prep Batch: 10593

Analytical Method: SM 2540C
Date Analyzed: 2004-08-16
Date Prepared: 2004-08-13

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

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		312.0	mg/L	1	10.00

Method Blank (1) QC Batch: 11824

Parameter	Flag	Result	Units	RL
Chloride		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 11825

Parameter	Flag	Result	Units	RL
Chloride		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 11853

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

Method Blank (1) QC Batch: 11867

Parameter	Flag	Result	Units	RL
Chloride		<0.500	mg/L	0.5

Method Blank (1) QC Batch: 11991

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

Duplicate (1) QC Batch: 11853

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	1904	1650	mg/L	2	14	8.7

Duplicate (1) QC Batch: 11991

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	942.0	880.0	mg/L	2	7	8.7

Laboratory Control Spike (LCS-1) QC Batch: 11824

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

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: 11825

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

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: 11867

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	12.0	11.9	mg/L	1	12.5	<0.337	96	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: 11824

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	90.3	90.7	mg/L	5	12.5	31.8	94	0	74.3 - 118	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: 11825

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	94.0	92.7	mg/L	5	12.5	34.1	96	1	74.3 - 118	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: 11867

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Chloride	102	102	mg/L	5	12.5	42.8	95	0	74.3 - 118	20

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

Standard (ICV-1) QC Batch: 11824

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.0	96	90 - 110	2004-08-09

Standard (CCV-1) QC Batch: 11824

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.0	96	90 - 110	2004-08-09

Standard (ICV-1) QC Batch: 11825

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.0	96	90 - 110	2004-08-09

Standard (CCV-1) QC Batch: 11825

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.8	94	90 - 110	2004-08-09

Standard (ICV-1) QC Batch: 11853

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	2004-08-11

Standard (CCV-1) QC Batch: 11853

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	999.0	100	90 - 110	2004-08-11

Standard (ICV-1) QC Batch: 11867

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.7	94	90 - 110	2004-08-09

Standard (CCV-1) QC Batch: 11867

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.0	96	90 - 110	2004-08-09

Standard (ICV-1) QC Batch: 11991

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1065	106	90 - 110	2004-08-16

Standard (CCV-1) QC Batch: 11991

GLI 166-130-542-6

4080923

CLIENT NAME:		SITE MANAGER:		PARAMETERS/METHOD NUMBER		CHAIN—OF—CUSTODY RECORD	
PROJECT NO.:		PROJECT NAME:		NUMBER OF CONTAINERS		LAB. ID. NUMBER	
PAGE		LAB. PO #		SAMPLE IDENTIFICATION		REMARKS	
DATE		TIME		OTHER		I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE	
8/12	0928	✓		FW-3	1	41016	
	0954			FW-2		41017	
	1136			TW-10		41018	
	1105			TW-9		41019	
	1155			TW-20		41020	
	1142			TW-13		41021	
SAMPLED BY: (Signature) <i>[Signature]</i> DATE: 8/12/04 TIME: 1210 RELINQUISHED BY: (Signature) <i>[Signature]</i> DATE: 8/12/04 TIME: 1730 RECEIVED BY: (Signature) <i>[Signature]</i> DATE: 8/16/04 TIME: 1525 RECEIVED BY: (Signature) <i>[Signature]</i> DATE: 8/16/04 TIME: 1525 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: <i>[Signature]</i> RECEIVED BY: (Signature) <i>[Signature]</i> ADDRESS: <i>[Signature]</i> CITY: <i>[Signature]</i> STATE: <i>[Signature]</i> ZIP: <i>[Signature]</i> CONTACT: <i>[Signature]</i> PHONE: <i>[Signature]</i> LA CONTACT PERSON: <i>[Signature]</i> SAMPLE CONDITION WHEN RECEIVED:							

GLI 160-130-542-6 - 4°C

6 samples - 145

LA CONTACT PERSON: *[Signature]*

LA CONTACT PERSON: *[Signature]*

LA CONTACT PERSON: *[Signature]*

41080923

6 samples - 15

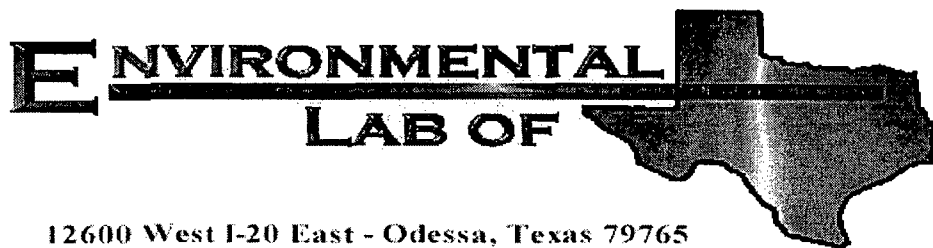
GLI 166-130-542-6

Checked
5/19/12

[illegible]

16 Samples - 17S

mm
samples checked



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: Buckeye Chloride

Project Number: 2-0124

Location: None Given

Lab Order Number: 5C04009

Report Date: 03/10/05

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Buckeye Chloride
Project Number: 2-0124
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
03/10/05 14:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TW-13	5C04009-01	Water	03/03/05 11:35	03/04/05 08:05
TW-20	5C04009-02	Water	03/03/05 12:10	03/04/05 08:05
TW-9	5C04009-03	Water	03/03/05 12:35	03/04/05 08:05
TW-10	5C04009-04	Water	03/03/05 13:00	03/04/05 08:05
RW-2	5C04009-05	Water	03/03/05 13:43	03/04/05 08:05
TW-14	5C04009-06	Water	03/03/05 14:04	03/04/05 08:05
TW-11	5C04009-07	Water	03/03/05 14:26	03/04/05 08:05
TW-23	5C04009-08	Water	03/03/05 14:45	03/04/05 08:05
RW-3	5C04009-09	Water	03/03/05 14:48	03/04/05 08:05
DUP1	5C04009-10	Water	03/03/05 00:00	03/04/05 08:05
TW-19	5C04009-11	Water	03/03/05 15:32	03/04/05 08:05
TW-15	5C04009-12	Water	03/03/05 16:12	03/04/05 08:05
TW-17	5C04009-13	Water	03/03/05 16:44	03/04/05 08:05

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Buckeye Chloride
Project Number: 2-0124
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
03/10/05 14:56

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-13 (5C04009-01) Water									
Chloride	90.0	2.50	mg/L	5	EC51006	03/08/05	03/08/05	EPA 300.0	
Total Dissolved Solids	502	5.00	"	1	EC50809	03/07/05	03/08/05	EPA 160.1	
TW-20 (5C04009-02) Water									
Chloride	25.3	2.50	mg/L	5	EC51006	03/08/05	03/08/05	EPA 300.0	
Total Dissolved Solids	232	5.00	"	1	EC50809	03/07/05	03/08/05	EPA 160.1	
TW-9 (5C04009-03) Water									
Chloride	44.5	2.50	mg/L	5	EC51006	03/08/05	03/08/05	EPA 300.0	
Total Dissolved Solids	239	5.00	"	1	EC50809	03/07/05	03/08/05	EPA 160.1	
TW-10 (5C04009-04) Water									
Chloride	33.0	2.50	mg/L	5	EC51006	03/08/05	03/08/05	EPA 300.0	
Total Dissolved Solids	226	5.00	"	1	EC50809	03/07/05	03/08/05	EPA 160.1	
RW-2 (5C04009-05) Water									
Chloride	32.4	2.50	mg/L	5	EC51006	03/08/05	03/08/05	EPA 300.0	
Total Dissolved Solids	244	5.00	"	1	EC50809	03/07/05	03/08/05	EPA 160.1	
TW-14 (5C04009-06) Water									
Chloride	87.9	2.50	mg/L	5	EC51006	03/08/05	03/08/05	EPA 300.0	
Total Dissolved Solids	340	5.00	"	1	EC50809	03/07/05	03/08/05	EPA 160.1	
TW-11 (5C04009-07) Water									
Chloride	28.4	2.50	mg/L	5	EC51006	03/08/05	03/08/05	EPA 300.0	
Total Dissolved Solids	174	5.00	"	1	EC50809	03/07/05	03/08/05	EPA 160.1	
TW-23 (5C04009-08) Water									
Chloride	656	10.0	mg/L	20	EC51006	03/08/05	03/08/05	EPA 300.0	
Total Dissolved Solids	1680	5.00	"	1	EC50809	03/07/05	03/08/05	EPA 160.1	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 2 of 5

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Buckeye Chloride
Project Number: 2-0124
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
03/10/05 14:56

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RW-3 (5C04009-09) Water									
Chloride	873	10.0	mg/L	20	EC51006	03/08/05	03/08/05	EPA 300.0	
Total Dissolved Solids	1710	5.00	"	1	EC50809	03/07/05	03/08/05	EPA 160.1	
DUP1 (5C04009-10) Water									
Chloride	42.5	2.50	mg/L	5	EC51006	03/08/05	03/08/05	EPA 300.0	
Total Dissolved Solids	203	5.00	"	1	EC50809	03/07/05	03/08/05	EPA 160.1	
TW-19 (5C04009-11) Water									
Chloride	54.2	2.50	mg/L	5	EC51006	03/08/05	03/08/05	EPA 300.0	
Total Dissolved Solids	224	5.00	"	1	EC50809	03/07/05	03/08/05	EPA 160.1	
TW-15 (5C04009-12) Water									
Chloride	189	2.50	mg/L	5	EC51006	03/08/05	03/08/05	EPA 300.0	
Total Dissolved Solids	577	5.00	"	1	EC50809	03/07/05	03/08/05	EPA 160.1	
TW-17 (5C04009-13) Water									
Chloride	178	2.50	mg/L	5	EC51006	03/08/05	03/08/05	EPA 300.0	
Total Dissolved Solids	565	5.00	"	1	EC50809	03/07/05	03/08/05	EPA 160.1	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 3 of 5

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Buckeye Chloride
Project Number: 2-0124
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
03/10/05 14:56

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 EC50809 - General Preparation (WetChem)

Blank (EC50809-BLK1)

Prepared: 03/07/05 Analyzed: 03/08/05

Total Dissolved Solids ND 5.00 mg/L

Duplicate (EC50809-DUP1)

Source: 5C04009-01

Prepared: 03/07/05 Analyzed: 03/08/05

Total Dissolved Solids 521 5.00 mg/L 502 3.71 20

Batch EC51006 - General Preparation (WetChem)

Blank (EC51006-BLK1)

Prepared & Analyzed: 03/08/05

Chloride ND 0.500 mg/L

LCS (EC51006-BS1)

Prepared & Analyzed: 03/08/05

Chloride 9.56 mg/L 10.0 95.6 80-120

Calibration Check (EC51006-CCV1)

Prepared & Analyzed: 03/08/05

Chloride 10.3 mg/L 10.0 103 80-120

Duplicate (EC51006-DUP1)

Source: 5C04009-01

Prepared & Analyzed: 03/08/05

Chloride 89.0 2.50 mg/L 90.0 1.12 20

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 4 of 5

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Buckeye Chloride
Project Number: 2-0124
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
03/10/05 14:56

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: 3-10-05

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

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If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

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Page 5 of 5

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Fax: 432-503-1713

Cindy Crain

Carson & Assoc

City/State/Zip:

Fax No:

10

Project #: 2-0124

Project Loc:

PO#:

Analyze For:

Sample Containers Intact?	N
Temperature Upon Receipt:	
Laboratory Comments:	-ZOC

Date	Time
------	------

Received by:

Date	Time
------	------

Received by ELDT:

Date	
------	--

Time

250 mL HDPE

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Larson # A8800

Date/Time: 3/4/05 8:05

Order #: 5004009

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	-2.0 C
Shipping container/cooler in good condition?	☒ Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	<u>Not present</u>
Custody Seals intact on sample bottles?	Yes	No	<u>Not present</u>
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:

APPENDIX B

HYDROGRAPH OF CHLORIDE CONCENTRATIONS

Hydrograph of Chloride Concentrations - TW-23

