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2000 ANNUAL GROUNDWATER REMEDIATION REPORT JAL NO. 4 PLANT LEA COUNTY, NEW MEXICO

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2000 ANNUAL GROUNDWATER REMEDIATION REPORT JAL NO. 4 PLANT LEA COUNTY, NEW MEXICO

1.0 INTRODUCTION

Atkins Benham, Inc. Environmental Division (ABI), formerly Roberts/Schornick & Associates, Inc., has been retained by El Paso Corporation (EPC) to compile the 2000 Annual Groundwater Remediation Report for the Jal No. 4 Plant (Plant) located in Lea County, New Mexico. The remedial activities conducted at the Plant have been performed under EPC's Project Work Plan, dated February 1995. This plan was approved by the New Mexico Oil Conservation Division (OCD) on April 27, 1995, with subsequent revisions approved on August 10, 1995 and July 8, 1997.

The Plant was constructed by an EPC entity (El Paso Natural Gas Company or EPNG) in 1952 to treat, compress and transport natural gas to EPC's main transmission lines. EPNG sold the Plant in 1987. Currently, the Plant is owned and operated by Christie Gas Corporation. The Plant property is comprised of approximately 181 acres of land located west of State Highway 18, approximately 9 miles north of the town of Jal, New Mexico. The location of the Plant property and topographic features are shown on Figure 1. As is shown, the Plant property occupies portions of Sections 31 and 32 of Township 23 South, Range 37 East, and Sections 5 and 6 of Township 24 South, Range 37 East, all in Lea County, New Mexico.

1.1 Program Wells and Sampling Schedule

To assess brine and hydrocarbon impacts to a shallow groundwater system in the Plant area, EPC has now installed 18 monitor wells, 1 piezometer, and 2 recovery wells on Plant property and adjoining properties to the east (located hydraulically downgradient). In accordance with the OCD's approval of the revised Work Plan, dated July 8, 1997, EPC designated thirteen (13) monitor wells as ***"program monitor wells"*** from which

groundwater samples are frequently collected and submitted to an analytical laboratory for mineral composition, organic compounds, and metals analyses. Monitor well ACW-15 was added to this list in 1999, bringing the total number of monitor wells designated as ***"program monitor wells"*** to fourteen (14). The locations of these wells are shown on Figures 2 through 7.

A list of EPC's program monitor wells and the calendar year 2000 sample collection schedule for each well is as follows:

Monitor Well	Sampled Quarterly	Sampled Semi-Annually	Sampled Annually
ACW-1		x	x
ACW-2A		x	x
ACW-4		x	x
ACW-5		x	x
ACW-6		x	x
ACW-7		x	x
ACW-8		x	x
ACW-9		x	x
ACW-10		x	x
ACW-11		x	x
ACW-12	x		x
ACW-13	x		x
ACW-14	x		x
ACW-15	x		x

Quarterly groundwater samples collected from these wells during the 2000 monitoring program were submitted to the laboratory for the following analyses: benzene, toluene, ethylbenzene, and total xylenes (collectively referred to as BTEX), total dissolved solids (TDS), specific conductance, and the major cations and anions (including bromide,

calcium, chloride, fluoride, magnesium, nitrate, potassium, silica, sodium, sulfate and alkalinity).

Semi-Annual groundwater samples collected from these wells during the 2000 monitoring program were submitted to the laboratory for the following analyses: TDS, specific conductance and chloride.

Annual groundwater samples collected from these wells during the 2000 monitoring program were submitted to the laboratory for the following analyses: BTEX, TDS, specific conductance, and the major cations and anions (including boron, bromide, calcium, chloride, copper, fluoride, iron, magnesium, manganese, nitrate, potassium, silica, sodium, sulfate, zinc, and alkalinity).

1.2 Non-Program Wells and Sampling Schedule

In addition to these program monitor wells, EPC also collects groundwater samples from three (3) monitor wells (ENSR-1, ENSR-2 and ENSR-3), one (1) piezometer (PTP-1), one (1) upgradient water supply well (EPNG-1), and two (2) downgradient active water supply wells (Oxy Production Well and Doom Production Well). The ENSR monitor wells are located within the Plant process areas as shown on Figures 2 through 7. Water supply well EPNG-1 is located at the northwest corner of the Plant property. The Oxy Production Well is located approximately in the center of Section 5-T24S-R37E and provides potable water to Oxy's Myers Langlie Mattix Unit Water Injection Station. The locations of the Oxy injection station and supply well are shown on Figures 2 through 7. The Doom Production Well is a private water supply well that provides water to the residence of Jimmie J. and Rebecca J. Doom, and is located in the approximate center of the southeast quarter of Section 5-T24S-R37E. The location of the Doom Production Well is not shown on the Figures provided, however, the well is approximately 2,500 feet southeast of the Oxy water injection station.

To date, EPC has collected groundwater samples from these non-program wells at least annually. With the exception of the Oxy Production Well and the Doom Production Well, the groundwater samples taken from these non-program wells are being submitted to the laboratory for the following analyses: BTEX, TDS, specific conductance, and chloride. The samples taken from the Oxy Production Well and the Doom Production Well are being

submitted to the laboratory for the following analyses: BTEX, TDS, specific conductance, pH, and the major cations and anions (including boron, bromide, calcium, chloride, copper, fluoride, iron, magnesium, manganese, nitrate, potassium, silica, sodium, sulfate, zinc, and alkalinity).

1.3 Depth to Groundwater Measurements

During each groundwater sampling event, and prior to disturbing the water columns within each well, EPC personnel measured the static depths to groundwater within the well casings using an electronic water level indicator. All depths to groundwater were measured relative to the surveyed top of casing (TOC) datums so that groundwater elevations could be determined. Table 1 provides a summary of the depths to groundwater, TOC elevations, and groundwater elevations that have been compiled throughout EPC's monitoring program.

1.4 Sampling Procedures

The groundwater samples were collected by EPC personnel in accordance with EPA methods and quality assurance/quality control. All monitor wells were purged thoroughly prior to sample collection using electric submersible pumps. Groundwater produced during purging operations was contained and disposed of properly within the Plant's lined surface impoundments.

Samples were collected in laboratory-prepared containers, labeled as to source, packed in ice, and placed under chain-of-custody control for transfer to the laboratory. Samples collected during each of the 2000 sampling events were submitted to NEL Laboratories, Inc. (Las Vegas, Nevada). The results of the 2000 groundwater analyses and all previous analyses are summarized on Table 2. The complete 2000 laboratory analytical reports and chain-of-custody documents are provided in Appendix A.

It should be noted that the groundwater samples taken from monitor wells ACW-14 and ACW-15, throughout the 2000 sampling events, were labeled and submitted to the analytical laboratory as "ACW-15" and "ACW-17", respectively. Groundwater samples taken from recovery wells RW-1 and RW-2, throughout the 2000 sampling events, were labeled and submitted to the analytical laboratory as "ACW-14" and "ACW-16", respectively. In addition, the samples taken from recovery wells RW-1 and RW-2 were

inadvertently switched with one another. ABI has corrected these errors on the data summary tables and figures provided herein, however, the laboratory analytical reports and chain-of-custody documents were not changed.

2.0 RESULTS OF MONITORING ACTIVITIES

The following sections summarize the field measurements and laboratory analytical results obtained throughout the 2000 groundwater sampling program. These data have been compared with historic data to assess any trends that may be apparent. To facilitate these comparisons, forty-two (42) trend graphs have been prepared that show the TDS, chloride/sodium, and benzene concentrations that have been detected within the groundwater samples taken from the fourteen (14) existing program monitor wells. These graphs are presented in the section tabbed "Graphs".

2.1 Field Measurements

Depth to groundwater measurements taken during each of the sampling events are shown on Table 1. These data indicate that the depths to groundwater across the Site are approximately 100 feet below ground surface, and that the saturated thickness of the groundwater system exhibits little variability. In fact, the fluctuations in the groundwater elevations observed in most wells have been less than one (1) foot since monitoring began in 1997.

Groundwater potentiometric surface maps have been prepared from these data for each sampling quarter. These maps are presented on Figures 2 through 5. As is shown on these figures, the groundwater flow direction across the Site is from northwest to southeast (S46E). The hydraulic gradient across the Site is approximately 0.002 feet per foot. Both groundwater flow direction and hydraulic gradient appear to have changed little since 1997.

2.2 Inorganic Constituents

The primary inorganic parameters that are being used to assess plume migration at the Site include: TDS, chloride and sodium. ABI has reviewed the concentration trend graphs for these parameters in each of the program monitor wells. It is ABI's opinion, based upon our review, that certain trends are apparent in the levels of these parameters. The following table summarizes ABI's opinions of the trends that are observable from the inorganic database provided herein.

MONITOR WELL	CONCENTRATION TRENDS		
	TDS	CHLORIDE	SODIUM
ACW-1	▲	▲	▼
ACW-2A	▼	▼	●
ACW-4	▼	▼	▼
ACW-5	▼	▲	▼
ACW-6	▼	▲	▼
ACW-7	▲	▲	▼
ACW-8	●	▼	▼
ACW-9	▲	▲	●
ACW-10	▲	▲	▲
ACW-11	▲	▲	▲
ACW-12	▲	▲	▲
ACW-13	▲	▲	▲
ACW-14	▲	▲	▲
ACW-15	▲	▲	▲

Key: ● denotes no observable trend, ▼ denotes a decreasing trend, ▲ denotes an increasing trend

In general, these trends indicate that the overall levels of inorganic constituents are decreasing in five (5) wells, and are increasing in nine (9) wells. The wells and their overall trends for inorganic constituents can be grouped as follows:

Monitor Wells with Decreasing Overall Inorganic Levels

ACW-2A ACW-6
ACW-4 ACW-8
ACW-5

Monitor Wells with Increasing Overall Inorganic Levels

ACW-1	ACW-12
ACW-7	ACW-13
ACW-9	ACW-14
ACW-10	ACW-15
ACW-11	

On Figure 6, ABI has prepared an isopleth of the chloride concentrations detected in groundwater during the 2000 sampling program. On this isopleth, the value posted at each well location represents the highest chloride concentration detected in any groundwater sample taken from that well during the 2000 monitoring program.

Decreasing chloride trends are evident in the monitor wells immediately surrounding recovery well RW-1 (i.e., monitor wells ACW-2A, ACW-4 and ACW-8). These trends indicate that the remediation system is successfully removing the highest levels of brine impact and that fresher groundwaters are converging on recovery well RW-1.

Monitor well ACW-15 may be located in close proximity to the leading edge of the chloride plume. The chloride levels in this relatively new monitor well have averaged 69.6 mg/L through the previous 5 sample rounds, but a concentration of 360 mg/L was detected in the Q4/2000 sample. Further downgradient of monitor well ACW-15 is the Oxy water supply well. The chloride levels in this well have remained relatively unchanged through 12 rounds of sampling averaging 114 mg/L.

2.3 Organic Constituents

The primary inorganic constituent that is being used to assess plume migration at the Site is benzene. ABI has reviewed the concentration trend graphs for benzene concentrations in each of the program monitor wells. It is ABI's opinion, based upon our review, that certain trends are apparent in the levels of this compound. The following table summarizes ABI's opinions of the trends that are observable from the benzene database provided herein.

MONITOR WELL	BENZENE CONCENTRATION TREND
ACW-1	●
ACW-2A	▼
ACW-4	▼
ACW-5	▼
ACW-6	●
ACW-7	▼
ACW-8	▼
ACW-9	●
ACW-10	▼
ACW-11	▲
ACW-12	▼
ACW-13	●
ACW-14	●
ACW-15	●

Key: ● denotes no observable trend, ▼ denotes a decreasing trend, ▲ denotes an increasing trend

In general, these trends indicate that benzene levels are remaining relatively constant or decreasing slightly across the Site (6 stable and 7 decreasing trends). However, an increasing benzene trend is indicated in monitor well ACW-11. This monitor well is located along the eastern Plant property boundary and not on offsite properties.

On Figure 7, ABI has prepared an isopleth of the benzene concentrations detected in groundwater during the 2000 sampling program. On this isopleth, the value posted at each well location represents the highest benzene concentration detected in any groundwater sample taken from that well during the 2000 monitoring program. The highest benzene concentrations detected in sample year 2000 was found in recovery well RW-1 (130 ug/L). Benzene was not detected in any of the offsite downgradient monitor wells during the sample year 2000.

3.0 GROUNDWATER REMEDIATION SYSTEM

To date, EPC has installed two (2) groundwater recovery wells to mitigate impacts to the shallow groundwater system. These wells are identified as RW-1 and RW-2, and the locations of these wells are shown on Figures 2 through 7. As is shown on these figures, RW-1 is located on Plant property in close proximity to areas that have likely been sources for brine and hydrocarbon impacts to groundwater. RW-2 is located downgradient relative to recovery well RW-1, and is approximately 780 feet east of the Plant property boundary. EPC has also installed a below-grade pipeline that connects recovery wells RW-1 and RW-2 to a Class II water disposal well located immediately north of the Plant in the northwest quarter of the southwest quarter, of Section 32-T23S-R37E. This disposal well is currently owned by Christie Gas Corporation (Christie). In 1999, EPC entered into an agreement with Christie that provides EPC with access to the disposal well for the purpose of disposing of all recovered groundwater from the remediation system.

Electrical power was established at recovery well RW-1 during 1998, and at recovery well RW-2 in 1999. EPC is currently contracted with Southwestern Public Service Company (Hobbs, New Mexico) to provide electrical power to the groundwater recovery system. Groundwater recovery began from recovery well RW-1 in October 1999, and from RW-2 in January 2000. Table 3 provides a summary of the volumes of groundwater pumped from each of the recovery wells. During calendar year 2000, groundwater recoveries from recovery wells RW-1 and RW-2 totaled 1,171,400 gallons and 3,967,385 gallons, respectively. The total annual volume of groundwater recovered from both recovery wells was 5,138,785 gallons. This total volume equals approximately 15.8 acre-feet of water. Groundwater permits for recovery wells RW-1 and RW-2, obtained in June 1997 from the New Mexico State Engineer's Office, established production limits of 35 acre-feet of water per year from each of the recovery wells (a combined volume of 70 acre-feet).

Due to chronic fouling of the well screen and electrical submersible pump, groundwater recovery from recovery well RW-1 ceased in August of 2000. In October 2000, EPC conducted a pilot pump test in monitor well ENSR-2 to determine if the well was suitable for conversion to a recovery well. A total of 153,780 gallons of groundwater were recovered during this pilot test. Monitor well ENSR-2 was determined to be suitable for conversion to a recovery well. EPC has received approval from the New Mexico State

Engineer's Office to alternate groundwater withdrawals from these two (2) wells (RW-1 and ENSR-2) for the purpose of groundwater recovery.

4.0 CONCLUSIONS

Based upon ABI's review of the data presented herein, the following conclusions are presented:

- The uppermost occurrence of groundwater in the Site area occurs within a shallow groundwater system with saturations occurring at approximately 100 feet below ground surface.

- The saturated thickness of the shallow groundwater system is locally very stable fluctuating less than 1-foot over the last four (4) years.

- Groundwater flow directions at the Site within the shallow groundwater system appear quite stable with flows occurring from northwest to southeast (S46E) with a hydraulic gradient of approximately 0.002 feet per foot.

- The shallow groundwater system in the Plant area has been impacted by chloride. These data indicate that a plume containing elevated levels of chloride has migrated downgradient from the Plant area.

- In general, chloride concentrations in groundwater appear to be increasing along the eastern property boundary of the Plant, and along a line between RW-1 and monitor well ACW-15.

- The shallow groundwater system in the Plant area has also been impacted by benzene. Historical data has indicated that detectable levels of benzene have been present downgradient of the Plant area. However, benzene was not detected in any of the offsite, downgradient wells during the 2000 sampling year.

- In general, benzene concentrations in groundwater appear to be remaining constant or may be decreasing slightly along the eastern property boundary of the Plant. Only the benzene levels in monitor well ACW-11 appear to have an increasing trend.

5.0 RECOMMENDATIONS

ABI recommends that EPC continue its operation of the Jal No. 4 Plant groundwater remediation system at maximum design capacity throughout calendar year 2001. During this time, and in addition to the quarterly groundwater monitoring activities previously described, each recovery well should be routinely monitored to identify groundwater recovery volumes, pumping rates, pumping times, and the quality of groundwater being discharged (via field measurements of specific conductance and chloride concentration). In addition, concurrent depth to groundwater measurements should also be taken periodically within both the recovery and the monitoring wells during periods of prolonged pumping to assess the cones of depression created by groundwater removal. When an adequate volume of dynamic head data are accumulated for the groundwater system, EPC should conduct a capture zone analysis to assess the effects of the current recovery well configuration upon the shallow groundwater system. The results of this capture zone analysis should be used to guide the placement of future recovery and monitor wells.

The groundwater remediation system only became fully operational during calendar year 2000, and pump scaling prevented continuous groundwater recoveries from recovery well RW-1 throughout much of the last four (4) months of 2000. ABI recommends that EPC optimize groundwater recovery from recovery wells RW-1 (or an acceptable alternate well) and RW-2. Based upon the analytical results of the 2000 and 2001 remediation programs, and in conjunction with the results of the computer modeling to be conducted as part of the 2001 remediation program, EPC should install any additional recovery or monitor wells necessary to advance EPC's remedial action objectives.

ABI recommends that EPC concentrate its initial remediation efforts upon capturing the most highly impacted groundwater (i.e., groundwater with chloride levels greater than 5,000 mg/L). Particular emphasis should continue to be placed upon evaluating the vertical variations in brine concentrations within the groundwater system near the source areas. Construction of future recovery wells should target the intervals of the groundwater system containing the most highly affected groundwater.

TABLES

TABLE 1: SUMMARY OF DEPTH TO GROUNDWATER MEASUREMENTS, JAL NO. 4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

MONITOR WELL	SCREENED INTERVAL (FEET-BGL)	TOP OF CASING ELEVATION (FEET-AMSL)	DEPTH TO GROUNDWATER MEASUREMENT DATE	DEPTH TO GROUNDWATER (FEET-TOC)	GROUNDWATER ELEVATION (FEET-AMSL)
ACW-01	110 to 130	3,300.87	02/19/97	106.65	3,194.22
			05/07/97	105.59	3,195.28
			08/19/97	105.61	3,195.26
			10/21/97	105.71	3,195.16
			02/24/98	105.62	3,195.25
			05/12/98	105.59	3,195.28
			08/11/98	105.61	3,195.26
			10/20/98	105.67	3,195.20
			02/23/99	105.72	3,195.15
			05/11/99	105.66	3,195.21
			08/11/99	105.68	3,195.19
			10/18/99	105.73	3,195.14
			02/22/00	105.81	3,195.06
			05/09/00	105.90	3,194.97
			08/07/00	105.99	3,194.88
			10/26/00	106.10	3,194.77
ACW-2a	98 to 118	3,300.88	05/12/99	106.00	3,194.88
			10/18/99	106.09	3,194.79
			05/08/00	107.27	3,193.61
			10/26/00	107.51	3,193.37
ACW-03	112 to 132	3,300.34	05/08/00	105.98	3,194.36
			10/26/00	106.21	3,194.13
ACW-04	154 to 169	3,299.48	05/08/00	113.57	3,185.91
			10/26/00	113.25	3,186.23
ACW-05	105 to 115	3,294.75	02/19/97	103.08	3,191.67
			05/07/97	103.06	3,191.69
			08/19/97	103.07	3,191.68
			10/22/97	103.06	3,191.69
			02/24/98	103.10	3,191.65
			05/13/98	103.10	3,191.65
			08/11/98	103.15	3,191.60
			10/21/98	103.22	3,191.53
			02/23/99	103.26	3,191.49
			05/13/99	103.17	3,191.58
			08/11/99	103.17	3,191.58
			10/21/99	103.25	3,191.50
			02/22/00	103.30	3,191.45
			05/10/00	103.32	3,191.43
			08/07/00	103.40	3,191.35
			10/26/00	103.50	3,191.25
ACW-06	110 to 120	3,300.53	02/19/97	107.53	3,193.00
			05/08/97	107.50	3,193.03
			08/18/97	107.51	3,193.02
			10/22/97	107.57	3,192.96
			02/24/98	107.54	3,192.99
			05/13/98	107.55	3,192.98
			08/11/98	107.57	3,192.96
			10/21/98	107.70	3,192.83
			02/23/99	107.68	3,192.85
			05/13/99	107.62	3,192.91
			08/11/99	107.60	3,192.93
			10/21/99	107.68	3,192.85
			02/22/00	107.72	3,192.81
			05/10/00	107.75	3,192.78
			08/07/00	107.84	3,192.69
			10/26/00	107.90	3,192.63
ACW-07	105 to 115	3,295.36	05/12/99	102.62	3,192.74
			10/21/99	102.75	3,192.61
			05/10/00	102.92	3,192.44
			10/26/00	103.20	3,192.16
ACW-08	140 to 173	3,297.27	05/11/99	104.17	3,193.10
			10/18/99	104.29	3,192.98
			05/09/00	104.40	3,192.87

TABLE 1: SUMMARY OF DEPTH TO GROUNDWATER MEASUREMENTS, JAL NO. 4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

MONITOR WELL	SCREENED INTERVAL (FEET-BGL)	TOP OF CASING ELEVATION (FEET-AMSL)	DEPTH TO GROUNDWATER MEASUREMENT DATE	DEPTH TO GROUNDWATER (FEET-TOC)	GROUNDWATER ELEVATION (FEET-AMSL)
ACW-08	140 to 173	3,297.27	10/26/00	104.64	3,192.63
ACW-09	140 to 160	3,302.47	02/19/97	110.24	3,192.23
			05/08/97	110.25	3,192.22
			08/19/97	110.26	3,192.21
			10/23/97	110.28	3,192.19
			02/24/98	110.29	3,192.18
			05/13/98	110.30	3,192.17
			08/11/98	110.32	3,192.15
			10/21/98	110.40	3,192.07
			02/23/99	110.54	3,191.93
			05/13/99	110.45	3,192.02
			08/11/99	110.45	3,192.02
			10/22/99	110.50	3,191.97
			02/22/00	111.18	3,191.29
			05/12/00	111.89	3,190.58
			08/07/00	111.22	3,191.25
			10/26/00	112.20	3,190.27
ACW-10	140 to 160	3,297.57	02/19/97	106.31	3,191.26
			05/08/97	106.32	3,191.25
			08/19/97	106.33	3,191.24
			10/23/97	106.35	3,191.22
			02/24/98	106.38	3,191.19
			05/14/98	106.38	3,191.19
			08/11/98	106.41	3,191.16
			10/22/98	106.54	3,191.03
			02/23/99	106.52	3,191.05
			05/14/99	106.45	3,191.12
			08/11/99	106.47	3,191.10
			10/22/99	106.52	3,191.05
			02/22/00	106.39	3,191.18
			05/12/00	106.63	3,190.94
			08/07/00	106.77	3,190.80
			10/26/00	106.89	3,190.68
ACW-11	140 to 160	3,299.33	02/19/97	106.01	3,193.32
			05/06/97	105.95	3,193.38
			08/19/97	106.00	3,193.33
			10/21/97	106.02	3,193.31
			02/24/98	106.02	3,193.31
			05/12/98	106.00	3,193.33
			08/11/98	106.07	3,193.26
			10/20/98	106.17	3,193.16
			02/23/99	106.20	3,193.13
			05/12/99	106.07	3,193.26
			08/11/99	106.15	3,193.18
			10/20/99	106.16	3,193.17
			02/22/00	106.27	3,193.06
			05/09/00	106.31	3,193.02
			08/07/00	106.54	3,192.79
			10/26/00	106.65	3,192.68
ACW-12	150 to 170	3,299.56	02/19/97	109.32	3,190.24
			05/08/97	109.32	3,190.24
			08/20/97	99.29	3,200.27
			10/23/97	109.39	3,190.17
			02/24/98	109.38	3,190.18
			05/14/98	109.35	3,190.21
			08/11/98	109.40	3,190.16
			10/22/98	109.51	3,190.05
			02/23/99	109.54	3,190.02
			05/14/99	109.44	3,190.12
			08/11/99	109.54	3,190.02
			10/22/99	109.52	3,190.04
			02/22/00	109.50	3,190.06
			05/11/00	109.57	3,189.99

TABLE 1: SUMMARY OF DEPTH TO GROUNDWATER MEASUREMENTS, JAL NO. 4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

MONITOR WELL	SCREENED INTERVAL (FEET-BGL)	TOP OF CASING ELEVATION (FEET-AMSL)	DEPTH TO GROUNDWATER MEASUREMENT DATE	DEPTH TO GROUNDWATER (FEET-TOC)	GROUNDWATER ELEVATION (FEET-AMSL)
ACW-12	150 to 170	3,299.56	08/07/00	109.65	3,189.91
			10/26/00	109.78	3,189.78
ACW-13	153 to 173	3,289.46	02/20/97	99.28	3,190.18
			05/08/97	99.29	3,190.17
			08/20/97	99.29	3,190.17
			10/23/97	99.27	3,190.19
			02/24/98	99.31	3,190.15
			05/14/98	99.31	3,190.15
			08/11/98	99.36	3,190.10
			10/22/98	99.40	3,190.06
			02/23/99	99.45	3,190.01
			05/14/99	99.38	3,190.08
			08/11/99	99.44	3,190.02
			10/22/99	99.44	3,190.02
			02/23/00	99.48	3,189.98
			05/11/00	99.47	3,189.99
			08/07/00	99.53	3,189.93
			10/26/00	99.50	3,189.96
ACW-14	157 to 177	3,291.18	02/19/97	NM	NM
			05/06/97	NM	NM
			08/20/97	100.41	3,190.77
			10/22/97	100.38	3,190.80
			02/24/98	100.47	3,190.71
			05/13/98	100.42	3,190.76
			08/11/98	100.47	3,190.71
			10/21/98	100.54	3,190.64
			02/23/99	100.57	3,190.61
			05/13/99	100.49	3,190.69
			08/09/99	100.49	3,190.69
			10/21/99	100.55	3,190.63
			02/22/00	100.56	3,190.62
			05/10/00	100.52	3,190.66
			08/07/00	100.61	3,190.57
			10/26/00	100.62	3,190.56
ACW-15	150 to 170	3,290.54	10/23/99	102.39	3,188.15
			02/23/00	102.41	3,188.13
			05/11/00	102.42	3,188.12
			08/07/00	102.45	3,188.09
			10/26/00	102.42	3,188.12

NOTES:

1. TOC : Top of Casing
2. AMSL : Above Mean Sea Level
3. NM : No Measurement Taken
4. BGL: Below Ground Level

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	Total Xylene, µg/l	Gasoline Range Organics, mg/l	Acenaphthene, ug/l	Acenaphthylene, ug/l	Anthracene, ug/l	Benzo(a)anthracene, ug/l	Benzo(b)fluoranthene, ug/l	Benzo(k)fluoranthene, ug/l	Benzo(g,h,i)perylene, ug/l	Benzo(a)pyrene, ug/l	Chrysene, ug/l	Dibenzo(a,h)anthracene, ug/l	Fluoranthene, ug/l	Fluorene, ug/l	Indeno(1,2,3-cd)pyrene, ug/l	Naphthalene, ug/l	Phenanthrene, ug/l	Pyrene, ug/l
ACW #01	ACW #01	05-Mar-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	15-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	10-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	20-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	27-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	16-May-95	<5	<10	<5	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	27-Jun-95	4.6	4.6	<2.5	140	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	29-Aug-95	6	<10	<5	<15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	06-Feb-96	6.1	3	1.9	2.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	06-Feb-96	5.6	2.7	3	<7.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	08-May-96	6.3	2.03	<1.0	<3.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	13-Aug-96	3.5	1.2	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	05-Nov-96	5.6	2.5	<1.0	1.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	06-May-97	14	15	<5.0	5.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	21-Nov-97	6.1	4.8	<0.5	2.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01D	ACW #01D	21-Nov-97	6.7	5.7	<0.5	2.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0170	ACW #01	12-May-98	6.8	11	4.4	3.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0458	ACW #01	20-Oct-98	7	4	<2 Jm	<2 Jm	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0005	ACW #01	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0187	ACW #01	19-Oct-99	7.5	3.6	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0081	ACW #01	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0219	ACW #01	26-Oct-00	<2	<2	<2	8.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #02A	ACW #02A	06-May-97	140	100	<50	<100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #02A	ACW #02A	20-Oct-97	89	100	13	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0167	ACW #02A	11-May-98	120	210	20	33	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0455	ACW #02A	19-Oct-98	180	340	38	72	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0013	ACW #02A	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0181	ACW #02A	18-Oct-99	17 P	42 P	8.1 P	14 P	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0078	ACW #02A	08-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0215	ACW #02A	26-Oct-00	35	78	16	32	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #03	ACW #03	06-May-97	350	22	110	43	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #03	ACW #03	20-Oct-97	160	8.2	69	32	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0157	ACW #03	11-May-98	130	21	41	19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0456	ACW #03	19-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0011	ACW #03	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0185	ACW #03	19-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0077	ACW #03	08-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0217	ACW #03	26-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #04	ACW #04	06-May-97	29	12	<5.0	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #04	ACW #04	20-Oct-97	170	150	<5.0	110	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Chloride, mg/l	Sulfate, mg/l	pH Temperature °C	Bromide, mg/l	Fluoride, mg/l	Nitrate-N, mg/l	Nitrate as NO3, mg/l	Aluminum, mg/l	Arsenic, mg/l	Barium, mg/l	Boron, mg/l	Cadmium, mg/l	Calcium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l	Iron, mg/l	Lead, mg/l
ACW #01	ACW #01	05-Mar-93	14,350	---	8,505	4,045	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	15-Sep-93	10,360	---	6,016	2,915	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	10-Nov-93	11,780	---	7,340	3,683	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	20-Apr-94	16,520	---	8,430	5,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	27-Oct-94	14,630	---	8,440	3,700	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	16-May-95	14,000	8.3	8,200	4,100	240	---	1.8	25	<2.0	---	---	---	---	0.9	---	66	---	---	<0.025	0.38	---
ACW #01	ACW #01	27-Jun-95	1,400	8.4	8,400	6,700	260	---	1.9	22	<2.0	---	---	---	---	1.0	---	74	---	---	<0.025	0.59	---
ACW #01	ACW #01	29-Aug-95	21,000	8.2	12,000	3,300	210	---	2.2	18	<20	---	---	---	---	0.8	---	67	---	---	<0.025	0.18	---
ACW #01	ACW #01	06-Feb-96	16,000	8.3	9,700	5,200	280	---	2.1	0.88	0.02	---	---	---	---	1.0	---	78	---	---	<0.006	0.56	---
ACW #01	ACW #01	06-Feb-96	16,170	8.2	9,440	5,770	293	---	2.06	2.1	<1.25	---	---	---	---	1.1	---	84	---	---	<0.1	0.7	---
ACW #01	ACW #01	08-May-96	14,620	8.2	8,190	4,130	268	---	<1.25	2.2	<1.25	---	---	---	---	1.0	---	93	---	---	0.01	0.6	---
ACW #01	ACW #01	13-Aug-96	12,000	8.1	7,400	3,500	270	---	1.9	4.9	<0.05	---	---	---	---	1.1	---	110	---	---	0.019	0.68	---
ACW #01	ACW #01	05-Nov-96	11,000	8.1	7,200	3,700	250	---	2	4.4	<0.05	---	---	---	---	1.0	---	81	---	---	<0.007	0.59	---
ACW #01	ACW #01	06-May-97	14,800	---	8,800	5,200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	21-Nov-97	20,800	8.4	12,000	7,800	320	---	<2	2.1	<0.5	---	---	---	---	1.0	---	83	---	---	<0.01	0.6	---
ACW #01D	ACW #01D	21-Nov-97	20,700	8.2	12,000	7,500	320	---	2	2.2	<0.5	---	---	---	---	0.9	---	76	---	---	<0.01	0.5	---
S98-0170	ACW #01	12-May-98	16,000	---	9,600	5,200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0458	ACW #01	20-Oct-98	20,300	8.18	12,900	6,100	260	17.7	<5	2.3	<0.05	---	---	---	---	1.1	---	100	---	---	<0.0025	0.74	---
M99-0005	ACW #01	11-May-99	16,900	---	8,500	5,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0187	ACW #01	19-Oct-99	14,800	8.02	7,800	5,500	210	20.6	<4	2.2	<0.05	---	0.047	0.62	0.33	1.2	<0.002	160	<0.005	<0.005	<0.0025	1.6	<0.005
M00-0081	ACW #01	09-May-00	19,300	---	11,300	7,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0219	ACW #01	26-Oct-00	15,500	8.13	9,900	5,500	300	15.2	<2	2.3	<1	---	---	0.30	0.29	1.0	<0.01	120	<0.01	---	<0.005	3.6	<0.05
ACW #02A	ACW #02A	06-May-97	26,800	---	17,000	11,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #02A	ACW #02A	20-Oct-97	24,400	9.2	16,000	8,600	<10	---	5	7.6	<0.5	---	---	---	---	1.1	---	3	---	---	<0.01	0.2	---
S98-0167	ACW #02A	11-May-98	26,000	---	16,000	8,200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0455	ACW #02A	19-Oct-98	25,200	9.40	20,200	7,800	17	18.3	<5	12	<0.05	---	---	---	---	1.4	---	3.0	---	---	<0.0025	0.37	---
M99-0013	ACW #02A	12-May-99	24,400	---	12,000	7,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0181	ACW #02A	18-Oct-99	24,000	9.42	13,000	7,600	25	19.8	<4	16	<0.05	---	0.35	3.6	0.48	2.3	0.016	4.2	<0.005	0.0041	0.0086	0.30	<0.005
M00-0078	ACW #02A	08-May-00	21,500		13,600	7,200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0215	ACW #02A	26-Oct-00	19,100	9.75	12,800	6,500	28	14.1	<2	11	<1	---	---	1.4	0.31	1.2	0.018	6.4	0.018	---	0.034	1.0	<0.05
ACW #03	ACW #03	06-May-97	18,500	---	11,000	6,900	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #03	ACW #03	20-Oct-97	23,000	---	13,000	7,800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0157	ACW #03	11-May-98	24,000	---	15,000	8,500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0456	ACW #03	19-Oct-98	20,800	---	12,400	7,700	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0011	ACW #03	12-May-99	19,600	---	10,100	6,600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0185	ACW #03	19-Oct-99	18,900	---	9,120	6,900	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0077	ACW #03	08-May-00	19,400		11,900	7,600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0217	ACW #03	26-Oct-00	17,500		11,900	7,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #04	ACW #04	06-May-97	48,500	---	25,000	21,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #04	ACW #04	20-Oct-97	172,000	7.3	94,000	58,000	2,100	---	33	<0.5	<0.5	---	---	---	---	0.7	---	580	---	---	<0.01	0.2	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Magnesium, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium	Silica, mg/l	Silver, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as $CaCO_3$), mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Hydroxide, mg/l	Hardness (as $CaCO_3$), mg/l
ACW #01	ACW #01	05-Mar-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	15-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	10-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	20-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	27-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	16-May-95	72	0.062	---	---	---	12	---	33	---	2,600	---	<0.020	700	---	---	---	470
ACW #01	ACW #01	27-Jun-95	92	0.077	---	---	---	15	---	35	---	3,200	---	<0.02	710	---	---	---	510
ACW #01	ACW #01	29-Aug-95	78	0.069	---	---	---	11	---	28	---	2,400	---	<0.02	820	---	---	---	590
ACW #01	ACW #01	06-Feb-96	100	0.069	---	---	---	16	---	36	---	4,300	---	<0.010	830	---	---	---	620
ACW #01	ACW #01	06-Feb-96	102	0.1	---	---	---	17	---	41	---	3,900	---	<0.1	759	---	---	---	630
ACW #01	ACW #01	08-May-96	118	0.09	---	---	---	18	---	54	---	3,070	---	<0.05	310	---	---	---	718
ACW #01	ACW #01	13-Aug-96	100	0.078	---	---	---	8.6	---	41	---	2,400	---	0.008	730	---	---	---	690
ACW #01	ACW #01	05-Nov-96	98	0.062	---	---	---	11	---	16	---	3,000	---	0.011	810	---	---	---	610
ACW #01	ACW #01	06-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #01	ACW #01	21-Nov-97	110	0.06	---	---	---	20	---	14	---	3,900	---	0.04	680	---	---	---	---
ACW #01D	ACW #01D	21-Nov-97	100	0.07	---	---	---	20	---	13	---	4,000	---	0.03	670	---	---	---	---
S98-0170	ACW #01	12-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0458	ACW #01	20-Oct-98	110	0.062	---	---	---	16	---	15	---	3,800	---	<0.05	840	840	<25	<25	700
M99-0005	ACW #01	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0187	ACW #01	19-Oct-99	110	0.13	<0.0002	0.013	<0.02	13	---	24	<0.005	3,100	<0.005	<0.05	780	780	<25	<25	870
M00-0081	ACW #01	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0219	ACW #01	26-Oct-00	82	0.21	<0.0002	---	---	9.5	<0.1	25	<0.02	2,600	---	<0.1	720	720	<25	<25	640
ACW #02A	ACW #02A	06-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #02A	ACW #02A	20-Oct-97	<1	<0.01	---	---	---	12	---	10	---	6,000	---	<0.02	2,200	---	---	---	---
S98-0167	ACW #02A	11-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0455	ACW #02A	19-Oct-98	0.96	<0.0025	---	---	---	12	---	12	---	6,400	---	<0.05	2,400	1500	860	<25	11
M99-0013	ACW #02A	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0181	ACW #02A	18-Oct-99	1.1	0.0041	0.00051	0.085	0.041	14	---	26	<0.005	6,100	0.037	<0.05	2,700	1700	990	<50	15
M00-0078	ACW #02A	08-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0215	ACW #02A	26-Oct-00	1.0	0.011	0.0002	---	---	8.5	<0.1	28	<0.02	3,600	---	<0.1	870	870	<25	<25	18
ACW #03	ACW #03	06-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #03	ACW #03	20-Oct-97	---	---	---	---	-							-	-			-	---
S98-0157	ACW #03	11-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0456	ACW #03	19-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0011	ACW #03	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0185	ACW #03	19-Oct-99	---	---	---	---	---	---		---	---	---	---	---	---	---	---	---	---
M00-0077	ACW #03	08-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0217	ACW #03	26-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #04	ACW #04	06-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #04	ACW #04	20-Oct-97	360	6.1	---	---	---	250	---	13	---	33,000	---	<0.02	500	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	Total Xylene, µg/l	Gasoline Range Organics, mg/l	Acenaphthene, ug/l	Acenaphthylene, ug/l	Anthracene, ug/l	Benzo(a)anthracene, ug/l	Benzo(b)fluoranthene, ug/l	Benzo(k)fluoranthene, ug/l	Benzo(g,h,i)perylene, ug/l	Benzo(a)pyrene, ug/l	Chrysene, ug/l	Dibenzo(a,h)anthracene, ug/l	Fluoranthene, ug/l	Fluorene, ug/l	Indeno(1,2,3-cd)pyrene, ug/l	Naphthalene, ug/l	Phenanthrene, ug/l	Pyrene, ug/l
S98-0168	ACW #04	12-May-98	190	170	60	100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0454	ACW #04	19-Oct-98	190	140	49	90	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0012	ACW #04	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0184	ACW #04	19-Oct-99	240	160	44	81	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0079	ACW #04	08-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0216	ACW #04	26-Oct-00	63	17	41	190	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	10-Mar-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	17-Jun-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	16-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	09-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	21-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	28-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	31-Jan-95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	16-May-95	<5	<10	<5	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	27-Jun-95	<2.5	<2.5	<2.5	<5.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	30-Aug-95	<5	<10	<5	<15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	06-Feb-96	<1.0	<1.0	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	06-Feb-96	<2.5	<2.5	<2.5	<7.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	08-May-96	<1.0	<1.0	<1.0	<3.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	13-Aug-96	<1.0	1.2	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	06-Nov-96	1.1	1.4	1.2	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	07-May-97	0.84	1.2	0.93	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	22-Oct-97	0.9	1.6	0.8	1.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0183	ACW #05	13-May-98	0.79	1.5	0.77*	12*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0470	ACW #05	21-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0020	ACW #05	13-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0196	ACW #05	21-Oct-99	<2	2.7	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0092	ACW #05	10-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0234	ACW #05	02-Nov-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	18-Jun-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	16-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	08-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	21-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	28-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	31-Jan-95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	16-May-95	<5	<10	<5	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	27-Jun-95	14	<2.5	<2.5	<5.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	29-Aug-95	7	<10	<5	<15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	06-Feb-96	6.6	3.2	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	06-Feb-96	<2.5	<2.5	<2.5	<7.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Chloride, mg/l	Sulfate, mg/l	pH Temperature °C	Bromide, mg/l	Fluoride, mg/l	Nitrate-N, mg/l	Nitrate as NO3, mg/l	Aluminum, mg/l	Arsenic, mg/l	Barium, mg/l	Boron, mg/l	Cadmium, mg/l	Calcium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l	Iron, mg/l	Lead, mg/l
S98-0168	ACW #04	12-May-98	160,000	---	99,000	74,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0454	ACW #04	19-Oct-98	121,000	6.74	83,100	56,000	1,800	17.6	<20	0.51	<0.5	---	---	---	---	1.1	---	610	---	---	<0.0025	0.14	---
M99-0012	ACW #04	12-May-99	131,000	---	84,800	45,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0184	ACW #04	19-Oct-99	95,000	6.95	46,300	44,000	1,300	20.7	<20	0.64	<0.05	---	<0.025	0.092	0.15	1.4	<0.002	650	<0.005	0.018	0.0080	0.23	<0.005
M00-0079	ACW #04	08-May-00	106,000		72,300	47,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0216	ACW #04	26-Oct-00	25,600	7.73	16,300	10,000	88	15.1	<2	12	<1	---	---	0.47	0.87	2.0	<0.01	57	<0.01	---	<0.005	1.7	<0.05
ACW #05	ACW #05	10-Mar-93	10,400	---	6,110	2,544	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	17-Jun-93	4,480	---	323	1,228	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	16-Sep-93	4,140	---	3,064	650	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	09-Nov-93	4,390	---	3,202	720	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	21-Apr-94	4,131	---	3,300	800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	28-Oct-94	4,500	---	3,112	550	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	31-Jan-95	4,050	---	2,848	499	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	16-May-95	3,900	7.0	2,800	530	1,100	---	1.3	<1.0	3.5	---	---	---	---	0.9	---	270	---	---	<0.025	0.46	---
ACW #05	ACW #05	27-Jun-95	3,800	7.3	2,800	460	800	---	1.1	<1.0	3.4	---	---	---	---	1.0	---	270	---	---	<0.025	0.34	---
ACW #05	ACW #05	30-Aug-95	3,900	7.0	2,700	510	890	---	1	<10	<20	---	---	---	---	1.1	---	240	---	---	<0.025	<0.10	---
ACW #05	ACW #05	06-Feb-96	3,800	7.5	2,200	510	920	---	0.92	0.12	4.7	---	---	---	---	1.4	---	240	---	---	<0.006	1.5	---
ACW #05	ACW #05	06-Feb-96	3,090	7.3	2,745	506	835	---	<1.25	0.29	4.9	---	---	---	---	1.4	---	240	---	---	<0.1	2	---
ACW #05	ACW #05	08-May-96	3,650	7.2	2,460	519	653	---	4.5	0.42	5	---	---	---	---	0.8	---	167	---	---	0.01	0.2	---
ACW #05	ACW #05	13-Aug-96	3,400	7.3	2,500	500	710	---	1	0.7	5.4	---	---	---	---	2.0	---	200	---	---	<0.006	0.024	---
ACW #05	ACW #05	06-Nov-96	3,300	7.5	2,300	500	710	---	1.2	0.57	<0.05	---	---	---	---	1.9	---	180	---	---	<0.007	0.3	---
ACW #05	ACW #05	07-May-97	3,020	---	2,000	430	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	22-Oct-97	3,160	7.7	2,000	470	320	---	1.7	0.6	6	---	---	---	---	1.3	---	170	---	---	<0.01	0.5	---
S98-0183	ACW #05	13-May-98	3,100	---	2,800	570	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0470	ACW #05	21-Oct-98	2,930	---	1,910	440	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0020	ACW #05	13-May-99	3,190	---	1,960	450	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0196	ACW #05	21-Oct-99	3,250	7.23	1,890	1,000	440	18.5	<2	0.77	6.5	---	0.094	0.0061	0.034	1.1	<0.002	190	0.019	<0.005	<0.0025	0.15	<0.005
M00-0092	ACW #05	10-May-00	3,180		1,960	750	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0234	ACW #05	02-Nov-00	2,650	7.3	1,920	860	750	18.5	<40	0.85	5.3	---	---	<0.1	0.051	1.1	<0.01	200	0.028	---	0.0095	1.6	<0.05
ACW #06	ACW #06	18-Jun-93	8,220	---	5,027	2,108	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	16-Sep-93	11,130	---	6,656	2,737	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	08-Nov-93	8,540	---	5,646	2,154	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	21-Apr-94	11,080	---	6,930	3,600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	28-Oct-94	11,988	---	6,910	2,100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	31-Jan-95	11,530	---	6,755	2,873	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	16-May-95	10,000	8.1	6,400	2,800	110	---	1.4	31	<2.0	---	---	---	---	0.9	---	70	---	---	<0.025	3.9	---
ACW #06	ACW #06	27-Jun-95	10,000	9.0	8,600	3,500	110	---	1.8	44	<2.0	---	---	---	---	1.1	---	64	---	---	<0.025	5.8	---
ACW #06	ACW #06	29-Aug-95	12,000	8.4	7,100	3,000	110	---	1.8	26	<20	---	---	---	---	0.9	---	42	---	---	<0.025	0.54	---
ACW #06	ACW #06	06-Feb-96	11,000	8.0	6,600	2,600	72	---	1.3	3.8	<0.0071	---	---	---	---	1.1	---	91	---	---	<0.006	4.6	---
ACW #06	ACW #06	06-Feb-96	10,320	7.8	5,630	3,180	79	---	1.52	10	<1.25	---	---	---	---	1.3	---	76	---	---	<0.1	5	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Magnesium, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium	Silica, mg/l	Silver, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as $CaCO_3$), mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Hydroxide, mg/l	Hardness (as $CaCO_3$), mg/l
S98-0168	ACW #04	12-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0454	ACW #04	19-Oct-98	370	7.0	---	---	---	170	---	10	---	37,000	---	<0.05	480	480	<25	<25	3100
M99-0012	ACW #04	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0184	ACW #04	19-Oct-99	370	12	<0.0002	0.0076	<0.02	170	---	14	<0.005	42,000	0.14	<0.05	500	500	<25	<25	3200
M00-0079	ACW #04	08-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0216	ACW #04	26-Oct-00	28	0.50	<0.0002	---	---	23	<0.1	25	<0.02	3,600	---	<0.1	1600	1600	<25	<25	260
ACW #05	ACW #05	10-Mar-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	17-Jun-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	16-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	09-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	21-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	28-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	31-Jan-95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	16-May-95	39	0.026	---	---	---	6.6	---	57	---	540	---	<0.020	320	---	---	---	980
ACW #05	ACW #05	27-Jun-95	40	0.02	---	---	---	6.9	---	56	---	530	---	<0.020	320	---	---	---	240
ACW #05	ACW #05	30-Aug-95	36	<0.015	---	---	---	8.7	---	44	---	550	---	<0.020	310	---	---	---	810
ACW #05	ACW #05	06-Feb-96	32	0.026	---	---	---	6.5	---	64	---	580	---	0.015	260	---	---	---	740
ACW #05	ACW #05	06-Feb-96	32	0.1	---	---	---	8.1	---	66	---	580	---	<0.1	284	---	---	---	730
ACW #05	ACW #05	08-May-96	24	<0.05	---	---	---	8	---	35	---	506	---	<0.05	190	---	---	---	515
ACW #05	ACW #05	13-Aug-96	28	<0.007	---	---	---	6.3	---	58	---	520	---	0.033	320	---	---	---	620
ACW #05	ACW #05	06-Nov-96	25	0.008	---	---	---	6	---	27	---	520	---	0.022	350	---	---	---	560
ACW #05	ACW #05	07-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #05	ACW #05	22-Oct-97	24	<0.01	---	---	---	5	---	26	---	480	---	<0.02	320	---	---	---	---
S98-0183	ACW #05	13-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0470	ACW #05	21-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0020	ACW #05	13-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0196	ACW #05	21-Oct-99	24	0.011	<0.0002	<0.005	<0.02	6.3	---	26.0	<0.005	540	0.0055	0.81	270	270	<25	<25	560
M00-0092	ACW #05	10-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0234	ACW #05	02-Nov-00	23	0.032	<0.0002	---	---	6.1	<0.1	34	<0.02	450	---	<0.1	280	280	<25	<25	590
ACW #06	ACW #06	18-Jun-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	16-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	08-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---			.	---
ACW #06	ACW #06	21-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	28-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	31-Jan-95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	16-May-95	19	0.079	---	---	---	<5.0	---	48	---	2,200	---	<0.020	1,300	---	---	---	200
ACW #06	ACW #06	27-Jun-95	16	0.082	---	---	---	<5.0	---	44	---	3,000	---	<0.080	1,500	---	---	---	130
ACW #06	ACW #06	29-Aug-95	16	0.04	---	---	---	<5.0	---	42	---	2,500	---	<0.020	1,500	---	---	---	200
ACW #06	ACW #06	06-Feb-96	23	0.12	---	---	---	3.6	---	62	---	2,700	---	0.029	1,400	---	---	---	320
ACW #06	ACW #06	06-Feb-96	21	0.1	---	---	---	3.6	---	50	---	2,400	---	<0.1	1,315	---	---	---	275

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	Total Xylene, µg/l	Gasoline Range Organics, mg/l	Acenaphthene, ug/l	Acenaphthylene, ug/l	Anthracene, ug/l	Benzo(a)anthracene, ug/l	Benzo(b)fluoranthene, ug/l	Benzo(k)fluoranthene, ug/l	Benzo(g,h,i)perylene, ug/l	Benzo(a)pyrene, ug/l	Chrysene, ug/l	Dibenzo(a,h)anthracene, ug/l	Fluoranthene, ug/l	Fluorene, ug/l	Indeno(1,2,3-cd)pyrene, ug/l	Naphthalene, ug/l	Phenanthrene, ug/l	Pyrene, ug/l
ACW #06	ACW #06	08-May-96	4.08	1.58	<1.0	<3.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	14-Aug-96	4.2	2.6	<2.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	06-Nov-96	4.5	1.5	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	06-Nov-96	4.6	1.5	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	08-May-97	8.2	2.8	2.6	2.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	22-Oct-97	10	3.8	1.4	1.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06D	ACW #06D	22-Oct-97	9.5	3.1	1.2	1.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0181	ACW #06	13-May-98	15	12	<0.50	3.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0469	ACW #06	21-Oct-98	11	6	3	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0019	ACW #06	13-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0195	ACW #06	21-Oct-99	<20	<20	<20	<40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0089	ACW #06	10-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0232	ACW #06	02-Nov-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #07	ACW #07	07-May-97	7.3	2.5	3.1	1.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #07	ACW #07	22-Oct-97	6.4	3.4	3	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0182	ACW #07	13-May-98	7.0	3.2	2.1*	1.7*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0467	ACW #07	21-Oct-98	8	3	2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0017	ACW #07	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0194	ACW #07	21-Oct-99	7.2	5.3	2.4	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0088	ACW #07	10-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0231	ACW #07	02-Nov-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #08	ACW #08	06-May-97	99	10	4.1	3.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #08	ACW #08	21-Nov-97	36	3.9	2	14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0173	ACW #08	12-May-98	37	4.5	2.9	1.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0459	ACW #08	20-Oct-98	140	13	6	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0010	ACW #08	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0186	ACW #08	19-Oct-99	32	6.2	3.7	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0086	ACW #08	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0218	ACW #08	26-Oct-00	15	<2	2.1	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	17-Jun-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	14-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	09-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	22-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	01-Dec-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	31-Jan-95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	17-May-95	<5	22	<5	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	28-Jun-95	<2.5	<2.5	<2.5	<5.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	30-Aug-95	<5	<10	<5	<15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	07-Feb-96	1.8	<1.0	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	07-Feb-96	<2.5	<2.5	<2.5	<7.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Chloride, mg/l	Sulfate, mg/l	pH Temperature °C	Bromide, mg/l	Fluoride, mg/l	Nitrate-N, mg/l	Nitrate as NO3, mg/l	Aluminum, mg/l	Arsenic, mg/l	Barium, mg/l	Boron, mg/l	Cadmium, mg/l	Calcium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l	Iron, mg/l	Lead, mg/l
ACW #06	ACW #06	08-May-96	10,620	7.7	6,460	2,880	48	---	<1.25	6.4	<1.25	---	---	---	---	1.3	---	35	---	---	0.02	4.1	---
ACW #06	ACW #06	14-Aug-96	11,000	7.9	7,100	2,900	88	---	1.8	21	<0.05	---	---	---	---	1.2	---	85	---	---	<0.006	4.5	---
ACW #06	ACW #06	06-Nov-96	12,000	8.6	7,700	3,400	74	---	1.3	18	<0.05	---	---	---	---	1.2	---	98	---	---	<0.007	5.3	---
ACW #06	ACW #06	06-Nov-96	12,000	8.6	7,700	3,600	62	---	1.3	18	<0.05	---	---	---	---	1.1	---	88	---	---	<0.007	4	---
ACW #06	ACW #06	08-May-97	8,450	---	5,500	2,300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	22-Oct-97	10,200	8.2	6,500	2,900	100	---	3	16.5	<0.05	---	---	---	---	0.9	---	68	---	---	<0.01	2.6	---
ACW #06D	ACW #06D	22-Oct-97	10,700	8.3	6,200	2,900	98	---	3	17.2	<0.05	---	---	---	---	0.9	---	68	---	---	<0.01	2.3	---
S98-0181	ACW #06	13-May-98	12,000	---	10,000	3,300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0469	ACW #06	21-Oct-98	11,600	8.00	6,530	3,000	74	20.1	<5	25	<0.05	---	---	---	---	1.2	---	64	---	---	<0.0025	2.4	---
M99-0019	ACW #06	13-May-99	11,200	---	6,620	2,900	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0195	ACW #06	21-Oct-99	11,500	8.54	6,170	2,800	230	19.1	<4	28	<0.05	---	0.083	1.7	0.35	1.3	0.0061	69	0.0045	0.0084	<0.0025	2.2	<0.005
M00-0089	ACW #06	10-May-00	10,300		6,290	3,600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0232	ACW #06	02-Nov-00	8,520	8.2	4,350	3,100	340	18.4		22.9	<0.05	---	---	0.82	0.28	1.5	<0.01	83	<0.01	---	0.016	9.7	<0.05
ACW #07	ACW #07	07-May-97	13,200	---	8,100	3,600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #07	ACW #07	22-Oct-97	13,800	7.3	7,500	4,400	50	---	4	4	<0.05	---	---	---	---	0.6	---	200	---	---	<0.01	14.4	---
S98-0182	ACW #07	13-May-98	14,000	---	11,000	4,300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0467	ACW #07	21-Oct-98	14,000	7.05	8,290	4,400	130	20.3	<5	3.8	<0.05	---	---	---	---	0.77	---	220	---	---	<0.0025	15	---
M99-0017	ACW #07	12-May-99	14,300	---	7,420	4,900	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0194	ACW #07	21-Oct-99	14,700	7.05	8,010	4,800	160	18.7	<4	3.4	<0.05	---	0.11	0.091	1.2	0.79	<0.002	270	<0.005	<0.005	<0.0025	14	<0.005
M00-0088	ACW #07	10-May-00	14,900		8,900	7,100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0231	ACW #07	02-Nov-00	12,500	7.1	8,400	5,100	200	19.0	<20	3.0	<0.05	---	---	<0.1	0.94	0.75	<0.01	240	0.012	---	0.0052	12	<0.05
ACW #08	ACW #08	06-May-97	89,200	---	50,000	29,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #08	ACW #08	21-Nov-97	49,200	7.0	29,000	17,000	800	---	<5	0.6	<0.5	---	---	---	---	0.6	---	440	---	---	<0.01	1.3	---
S98-0173	ACW #08	12-May-98	48,000	---	28,000	34,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0459	ACW #08	20-Oct-98	44,200	6.79	28,700	24,000	740	17.9	<10	0.82	<0.05	---	---	---	---	0.62	---	370	---	---	<0.0025	1.5	---
M99-0010	ACW #08	11-May-99	52,500	---	29,800	21,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0186	ACW #08	19-Oct-99	36,400	7.09	17,700	15,000	580	20.5	<10	0.86	<0.05	---	<0.025	<0.005	0.11	0.83	<0.002	500	<0.005	<0.005	<0.0025	2.7	<0.005
M00-0086	ACW #08	09-May-00	62,900		41,800	32,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0218	ACW #08	26-Oct-00	36,300	6.85	26,000	17,000	740	15.0	<2	0.92	<1	---	---	<0.1	0.15	0.79	<0.01	440	<0.01	---	<0.005	3.3	<0.05
ACW #09	ACW #09	17-Jun-93	5,900	---	4,435	2,288	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	14-Sep-93	3,100	---	2,119	915	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	09-Nov-93	3,670	---	2,300	1,184	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	22-Apr-94	3,900	---	2,508	1,150	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	01-Dec-94	5,450	---	3,510	1,650	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	31-Jan-95	7,110	---	4,240	2,083	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	17-May-95	11,000	6.6	6,800	5,600	440	---	2.1	<1.0	<2.0	---	---	---	---	0.4	---	820	---	---	<0.025	0.17	---
ACW #09	ACW #09	28-Jun-95	9,100	7.0	6,200	3,500	360	---	1.9	<1.0	<2.0	---	---	---	---	0.4	---	770	---	---	<0.025	0.28	---
ACW #09	ACW #09	30-Aug-95	7,150	6.5	4,500	2,500	370	---	1.5	<10	<20	---	---	---	---	0.4	---	640	---	---	<0.025	0.19	---
ACW #09	ACW #09	07-Feb-96	7,500	7.7	5,400	2,400	320	---	1.5	0.16	0.039	---	---	---	---	0.4	---	570	---	---	<0.006	0.48	---
ACW #09	ACW #09	07-Feb-96	7,450	6.8	4,620	2,300	341	---	1.85	0.36	<1.25	---	---	---	---	0.4	---	600	---	---	<0.1	0.4	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Magnesium, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium	Silica, mg/l	Silver, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as $CaCO_3$), mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Hydroxide, mg/l	Hardness (as $CaCO_3$), mg/l
ACW #06	ACW #06	08-May-96	21	0.14	---	---	---	4	---	40	---	2,380	---	<0.05	1,396	---	---	---	175
ACW #06	ACW #06	14-Aug-96	23	0.13	---	---	---	3.4	---	60	---	2,900	---	0.024	1,400	---	---	---	310
ACW #06	ACW #06	06-Nov-96	27	0.16	---	---	---	3.8	---	32	---	2,800	---	0.032	1,600	---	---	---	360
ACW #06	ACW #06	06-Nov-96	22	0.13	---	---	---	3.6	---	27	---	2,400	---	0.019	1,600	---	---	---	310
ACW #06	ACW #06	08-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #06	ACW #06	22-Oct-97	19	0.11	---	---	---	3	---	21	---	2,200	---	<0.02	1,400	---	---	---	---
ACW #06D	ACW #06D	22-Oct-97	19	0.11	---	---	---	3	---	21	---	2,200	---	<0.02	1,400	---	---	---	---
S98-0181	ACW #06	13-May-98	---	---	---	---	---	---	---	0.56	---	---	---	---	---	---	---	---	---
S98-0469	ACW #06	21-Oct-98	23	0.099	---	---	---	2.7	---	22	---	2,640	---	<0.05	1,600	1,600	<25	<25	250
M99-0019	ACW #06	13-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0195	ACW #06	21-Oct-99	19	0.087	<0.0002	0.080	0.030	2.3	---	29	<0.005	2,900	<0.005	<0.05	1,500	1,400	130	<25	250
M00-0089	ACW #06	10-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0232	ACW #06	02-Nov-00	22	0.13	<0.0002	---	---	6.9	<0.1	30	<0.02	710	---	<0.1	1,200	1,200	14	<25	300
ACW #07	ACW #07	07-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #07	ACW #07	22-Oct-97	80	0.2	---	---	---	3	---	18	---	2,500	---	<0.2	730	---	---	---	---
S98-0182	ACW #07	13-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0467	ACW #07	21-Oct-98	91	0.15	---	---	---	4.3	---	23	---	3,100	---	<0.05	830	830	<25	<25	920
M99-0017	ACW #07	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0194	ACW #07	21-Oct-99	93	0.13	<0.0002	0.025	<0.02	3.8	---	23	<0.005	3,300	<0.005	<0.05	870	870	<25	<25	1000
M00-0088	ACW #07	10-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0231	ACW #07	02-Nov-00	87	0.11	<0.0002	---	---	4.2	<0.1	31	<0.02	710	---	<0.1	840	840	<25	<25	960
ACW #08	ACW #08	06-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #08	ACW #08	21-Nov-97	210	2.2	---	---	---	57	---	19	---	9,300	---	<0.02	520	---	---	---	---
S98-0173	ACW #08	12-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0459	ACW #08	20-Oct-98	200	1.7	---	---	---	46	---	19	---	11,000	---	<0.05	430	430	<25	<25	1,700
M99-0010	ACW #08	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0186	ACW #08	19-Oct-99	230	2.4	<0.0002	0.031	<0.02	99	---	16	<0.005	12,000	0.048	<0.05	490	490	<25	<25	2,300
M00-0086	ACW #08	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0218	ACW #08	26-Oct-00	220	2.1	<0.0002	---	---	69	<0.1	24	<0.02	3,600	---	<0.1	410	410	<25	<25	2,000
ACW #09	ACW #09	17-Jun-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	14-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	09-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	22-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	01-Dec-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	31-Jan-95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	17-May-95	280	1	---	---	---	16	---	49	---	910	---	0.025	320	---	---	---	4,500
ACW #09	ACW #09	28-Jun-95	250	0.98	---	---	---	15	---	51	---	1,000	---	<0.020	300	---	---	---	2,700
ACW #09	ACW #09	30-Aug-95	220	0.86	---	---	---	14	---	43	---	880	---	<0.040	240	---	---	---	2,000
ACW #09	ACW #09	07-Feb-96	180	0.71	---	---	---	14	---	47	---	810	---	<0.010	300	---	---	---	2,200
ACW #09	ACW #09	07-Feb-96	175	0.7	---	---	---	16	---	56	---	810	---	<0.1	291	---	---	---	2,220

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	Total Xylene, µg/l	Gasoline Range Organics, mg/l	Acenaphthene, ug/l	Acenaphthylene, ug/l	Anthracene, ug/l	Benzo(a)anthracene, ug/l	Benzo(b)fluoranthene, ug/l	Benzo(k)fluoranthene, ug/l	Benzo(g,h,i)perylene, ug/l	Benzo(a)pyrene, ug/l	Chrysene, ug/l	Dibenzo(a,h)anthracene, ug/l	Fluoranthene, ug/l	Fluorene, ug/l	Indeno(1,2,3-cd)pyrene, ug/l	Naphthalene, ug/l	Phenanthrene, ug/l	Pyrene, ug/l
ACW #09	ACW #09	08-May-96	<1.0	<1.0	<1.0	<3.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	14-Aug-96	1.4	1.6	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	07-Nov-96	2.3	2.2	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	19-Feb-97	1.3	4.0	10	4.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	08-May-97	2.6	2.6	1.4	1.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	23-Oct-97	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0185	ACW #09	13-May-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0472	ACW #09	21-Oct-98	6	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0022	ACW #09	13-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0199	ACW #09	22-Oct-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0100	ACW #09	12-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0101	ACW #09D	12-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0237	ACW #09	03-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0238	ACW #09D	03-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	18-Jun-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	14-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	09-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	22-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	28-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	01-Feb-95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	17-May-95	<5	<10	<5	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	28-Jun-95	<2.5	<2.5	<2.5	<5.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	30-Aug-95	<5	<10	<5	<15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	07-Feb-96	3.9	<1.0	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	07-Feb-96	4.3	<2.5	<2.5	<7.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	08-May-96	1.22	<1.0	<1.0	<3.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	14-Aug-96	<1.0	<1.0	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	07-Nov-96	1.2	1.5	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	08-May-97	1.3	1	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	23-Oct-97	1.14	1.17	<0.5	0.58	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0187	ACW #10	14-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0473	ACW #10	22-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0023	ACW #10	13-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0201	ACW #10	22-Oct-99	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0099	ACW #10	11-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0243	ACW #10	06-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	19-Jun-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	15-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	09-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	21-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Chloride, mg/l	Sulfate, mg/l	pH Temperature °C	Bromide, mg/l	Fluoride, mg/l	Nitrate-N, mg/l	Nitrate as NO3, mg/l	Aluminum, mg/l	Arsenic, mg/l	Barium, mg/l	Boron, mg/l	Cadmium, mg/l	Calcium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l	Iron, mg/l	Lead, mg/l
ACW #09	ACW #09	08-May-96	7,530	6.8	4,210	2,210	322	---	3	0.35	<1.25	---	---	---	---	<0.5	---	508	---	---	0.01	0.4	---
ACW #09	ACW #09	14-Aug-96	4,400	7.4	3,600	1,200	180	---	1.2	1.4	0.13	---	---	---	---	0.4	---	490	---	---	<0.006	0.66	---
ACW #09	ACW #09	07-Nov-96	4,200	7.3	3,100	1,200	---	---	---	1.1	0.055	---	---	---	---	0.3	---	360	---	---	<0.007	0.4	---
ACW #09	ACW #09	19-Feb-97	4,110	---	2,500	1,260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	08-May-97	2,800	---	2,100	830	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	23-Oct-97	3,380	7.2	1,600	880	130	---	1.3	1.2	<0.05	---	---	---	---	0.2	---	270	---	---	<0.01	0.6	---
S98-0185	ACW #09	13-May-98	5,100	---	4,500	1,600	---	---	---	1.1	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0472	ACW #09	21-Oct-98	13,200	6.49	8,980	4,100	440	20.8	<5	0.40	<0.05	---	---	---	---	0.49	---	1,200	---	---	<0.0025	0.63	---
M99-0022	ACW #09	13-May-99	11,100	---	6,400	3,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0199	ACW #09	22-Oct-99	8,580	6.78	5,950	2,900	280	19.6	<4	0.71	<0.05	---	0.030	0.0066	0.13	0.43	<0.002	820	<0.005	<0.005	<0.0025	0.96	<0.005
M00-0100	ACW #09	12-May-00	7,830	---	4,810	2,500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0101	ACW #09D	12-May-00	7,960	---	4,930	3,100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0237	ACW #09	03-Nov-00	7,630	6.8	5,860	3,000	230	19.0	<20	0.68	<0.05	---	---	<0.1	0.14	0.57	<0.01	500	<0.01	---	0.0062	1.4	<0.05
M00-0238	ACW #09D	03-Nov-00	7,620	6.8	11,200	2,900	260	19.1	<20	0.66	<0.05	---	---	<0.1	0.13	0.57	<0.01	490	<0.01	---	0.0073	1.4	<0.05
ACW #10	ACW #10	18-Jun-93	1061	---	701	1027	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	14-Sep-93	1,349	---	1,190	421	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	09-Nov-93	1,800	---	1,238	420	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	22-Apr-94	2,440	---	1,638	700	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	28-Oct-94	2,592	---	1,694	600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	01-Feb-95	2,660	---	1,426	619	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	17-May-95	3,900	6.9	2,300	1,600	300	---	1.1	<1.0	1.1	---	---	---	---	0.3	---	320	---	---	<0.025	0.12	---
ACW #10	ACW #10	28-Jun-95	3,100	7.3	2,300	1,900	230	---	0.98	<1.0	<2.0	---	---	---	---	0.3	---	280	---	---	<0.025	0.28	---
ACW #10	ACW #10	30-Aug-95	3,100	7.0	2,200	790	210	---	0.9	<10	<20	---	---	---	---	0.2	---	280	---	---	<0.025	<0.20	---
ACW #10	ACW #10	07-Feb-96	3,200	7.8	2,300	850	230	---	0.88	0.24	0.42	---	---	---	---	0.3	---	320	---	---	<0.006	0.24	---
ACW #10	ACW #10	07-Feb-96	3,100	7.1	2,100	829	242	---	<1.25	0.44	<1.25	---	---	---	---	0.3	---	320	---	---	<0.1	0.4	---
ACW #10	ACW #10	08-May-96	2,322	7.2	1,290	603	190	---	4.5	0.46	2.2	---	---	---	---	<0.5	---	206	---	---	<0.01	0.1	---
ACW #10	ACW #10	14-Aug-96	2,400	7.6	1,900	560	160	---	0.82	1.4	0.58	---	---	---	---	0.3	---	210	---	---	<0.006	0.14	---
ACW #10	ACW #10	07-Nov-96	250	7.5	1,800	610	170	---	0.83	1.1	0.49	---	---	---	---	0.2	---	200	---	---	<0.007	0.22	---
ACW #10	ACW #10	08-May-97	1,880	---	1,500	480	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	23-Oct-97	2,870	7.2	1,500	670	210	---	1.2	1	0.36	---	---	---	---	0.2	---	220	---	---	<0.01	0.2	---
S98-0187	ACW #10	14-May-98	2,400	---	1,200	540	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0473	ACW #10	22-Oct-98	2,900	7.06	1,960	800	210	20.8	<2	0.90	0.83					0.29	---	300	---	---	<0.0025	0.099	---
M99-0023	ACW #10	13-May-99	2,810	---	1,660	730	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0201	ACW #10	22-Oct-99	2,470	7.23	1,720	660	160	19.4	<2	1.2	0.62	---	0.037	0.010	0.091	0.26	<0.002	260	<0.005	<0.005	<0.0025	0.26	<0.005
M00-0099	ACW #10	11-May-00	3,620		2,430	1,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0243	ACW #10	06-Nov-00	3,100	7.1	2,840	980	220	16.4	<2	1.0	<1	---	---	<0.1	0.15	0.37	<0.01	470	<0.01	---	0.0061	0.27	<0.05
ACW #11	ACW #11	19-Jun-93	25,000	---	18,670	9,737	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	15-Sep-93	10,570	---	6,820	3,437	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	09-Nov-93	10,160	---	6,592	3,620	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	21-Apr-94	16,290	---	9,520	6,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Magnesium, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium	Silica, mg/l	Silver, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as $CaCO_3$), mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Hydroxide, mg/l	Hardness (as $CaCO_3$), mg/l
ACW #09	ACW #09	08-May-96	183	0.49	---	---	---	17	---	60	---	687	---	<0.05	209	---	---	---	2,020
ACW #09	ACW #09	14-Aug-96	160	0.65	---	---	---	13	---	53	---	730	---	0.027	220	---	---	---	1,900
ACW #09	ACW #09	07-Nov-96	110	0.44	---	---	---	10	---	---	---	510	---	0.029	---	---	---	---	---
ACW #09	ACW #09	19-Feb-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	08-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #09	ACW #09	23-Oct-97	84	0.31	---	---	---	10	---	17	---	320	---	0.05	200	---	---	---	---
S98-0185	ACW #09	13-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0472	ACW #09	21-Oct-98	400	1.4	---	---	---	25	---	31	---	1,400	---	<0.05	340	340	<25	<25	4,600
M99-0022	ACW #09	13-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0199	ACW #09	22-Oct-99	230	0.80	<0.0002	0.0062	<0.02	22	---	29	<0.005	990	0.032	<0.05	270	270	<25	<25	3,000
M00-0100	ACW #09	12-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0101	ACW #09D	12-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0237	ACW #09	03-Nov-00	160	0.43	<0.0002	---	---	18	<0.1	32	<0.02	670	---	<0.1	500	500	<25	<25	1,900
M00-0238	ACW #09D	03-Nov-00	150	0.42	<0.0002	---	---	18	<0.1	31	<0.02	630	---	<0.1	510	510	<25	<25	1,900
ACW #10	ACW #10	18-Jun-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	14-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	09-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	22-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	28-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	01-Feb-95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	17-May-95	110	0.037	---	---	---	8	---	43	---	170	---	<0.020	190	---	---	---	1,300
ACW #10	ACW #10	28-Jun-95	94	0.029	---	---	---	7.5	---	46	---	160	---	<0.020	190	---	---	---	1,200
ACW #10	ACW #10	30-Aug-95	95	0.034	---	---	---	52	---	42	---	150	---	<0.040	180	---	---	---	1,100
ACW #10	ACW #10	07-Feb-96	110	0.032	---	---	---	8.4	---	36	---	190	---	0.011	200	---	---	---	1,200
ACW #10	ACW #10	07-Feb-96	107	<0.1	---	---	---	9.4	---	54	---	190	---	<0.1	194	---	---	---	1,240
ACW #10	ACW #10	08-May-96	92	<0.05	---	---	---	8	---	62	---	127	---	<.05	137	---	---	---	893
ACW #10	ACW #10	14-Aug-96	71	0.019	---	---	---	7	---	47	---	140	---	0.037	170	---	---	---	810
ACW #10	ACW #10	07-Nov-96	70	0.017	---	---	---	7.4	---	20	---	150	---	0.025	170	---	---	---	800
ACW #10	ACW #10	08-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #10	ACW #10	23-Oct-97	71	0.02	---	---	---	6	---	20	---	140	---	<0.02	200	---	---	---	---
S98-0187	ACW #10	14-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0473	ACW #10	22-Oct-98	110	0.0068	---	---	---	9.0	---	27	---	180	---	<0.05	180	180	<25	<25	1,200
M99-0023	ACW #10	13-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0201	ACW #10	22-Oct-99	84	0.020	<0.0002	<0.005	<0.02	7.9	---	19	<0.005	170	0.013	<0.05	160	160	<25	<25	1,000
M00-0099	ACW #10	11-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0243	ACW #10	06-Nov-00	140	0.026	<0.0002	---	---	16	<0.1	30	<0.02	330	---	<0.1	180	180	<25	<25	1,800
ACW #11	ACW #11	19-Jun-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	15-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	09-Nov-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	21-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	Total Xylene, µg/l	Gasoline Range Organics, mg/l	Acenaphthene, ug/l	Acenaphthylene, ug/l	Anthracene, ug/l	Benzo(a)anthracene, ug/l	Benzo(b)fluoranthene, ug/l	Benzo(k)fluoranthene, ug/l	Benzo(g,h,i)perylene, ug/l	Benzo(a)pyrene, ug/l	Chrysene, ug/l	Dibenzo(a,h)anthracene, ug/l	Fluoranthene, ug/l	Fluorene, ug/l	Indeno(1,2,3-cd)pyrene, ug/l	Naphthalene, ug/l	Phenanthrene, ug/l	Pyrene, ug/l
ACW #11	ACW #11	27-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	27-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	01-Feb-95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	17-May-95	<5	<10	<5	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	27-Jun-95	5.1	<2.5	<2.5	<5.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	29-Aug-95	8	<10	<5	<15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	07-Feb-96	6.9	<1.0	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	07-Feb-96	7.6	<2.5	<2.5	<7.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	08-May-96	6.76	<1.0	<1.0	<3.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	13-Aug-96	7.9	2.2	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	05-Nov-96	32	1.7	<1.0	1.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	06-May-97	21	5.3	3.1	3.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	21-Nov-97	28	3.1	<0.5	2.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0174	ACW #11	12-May-98	70	8.2	1.3	4.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0460	ACW #11	20-Oct-98	51	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0014	ACW #11	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0192	ACW #11	20-Oct-99	14	4.5	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0087	ACW #11	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0227	ACW #11	01-Nov-00	16	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12	ACW #12	19-Feb-97	<0.5	<0.5	1.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12D	ACW #12D	19-Feb-97	2.9	<0.5	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12	ACW #12	08-May-97	3	0.89	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12	ACW #12	20-Aug-97	1.2	<0.5	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12D	ACW #12D	20-Aug-97	1.4	<0.5	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12	ACW #12	23-Oct-97	1.4	0.58	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0058	ACW #12	24-Feb-98	7.3	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0059	ACW #12D	24-Feb-98	6.7	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0188	ACW #12	01-Jun-98	<0.50	1.2	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0189	ACW #12D	01-Jun-98	4.4	2.5	6.1	2.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0294	ACW #12	11-Aug-98	2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0295	ACW #12D	11-Aug-98	2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0474	ACW #12	22-Oct-98	6	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0475	ACW #12D	22-Oct-98	6	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S99-0083	ACW #12	23-Feb-99	6	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S99-0084	ACW #12D	23-Feb-99	5	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0024	ACW #12	14-May-99	4	<2	<2	<2	<0.25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0026	ACW #12D	14-May-99	4	<2	<2	<2	<0.25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0087	ACW #12	11-Aug-99	5.3	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0088	ACW #12D	11-Aug-99	2.4	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0202	ACW #12	22-Oct-99	4.7	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Chloride, mg/l	Sulfate, mg/l	pH Temperature °C	Bromide, mg/l	Fluoride, mg/l	Nitrate-N, mg/l	Nitrate as NO3, mg/l	Aluminum, mg/l	Arsenic, mg/l	Barium, mg/l	Boron, mg/l	Cadmium, mg/l	Calcium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l	Iron, mg/l	Lead, mg/l
ACW #11	ACW #11	27-Oct-94	20,060	---	13,280	6,200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	27-Oct-94	20,550	---	12,900	6,600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	01-Feb-95	32,200	---	19,880	11,582	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	17-May-95	12,000	6.8	7,200	4,400	250	---	1.9	<1.0	<2.0	---	---	---	---	0.3	---	740	---	---	<0.025	0.36	---
ACW #11	ACW #11	27-Jun-95	11,000	7.2	7,000	6,500	210	---	1.6	<1.0	<2.0	---	---	---	---	0.4	---	720	---	---	<0.025	0.29	---
ACW #11	ACW #11	29-Aug-95	10,000	6.8	6,000	3,400	220	---	2.2	6.2	<2.0	---	---	---	---	0.3	---	550	---	---	<0.025	0.17	---
ACW #11	ACW #11	07-Feb-96	11,000	7.8	7,400	3,400	230	---	1.5	0.15	0.087	---	---	---	---	0.3	---	660	---	---	<0.006	0.38	---
ACW #11	ACW #11	07-Feb-96	11,030	7.2	6,740	3,770	248	---	1.6	0.39	<1.25	---	---	---	---	0.4	---	668	---	---	<0.1	0.5	---
ACW #11	ACW #11	08-May-96	9,840	7.3	5,080	3,120	206	---	<1.25	0.37	<1.25	---	---	---	---	<0.5	---	484	---	---	0.02	0.3	---
ACW #11	ACW #11	13-Aug-96	12,000	7.3	10,000	4,200	230	---	2	1.0	0.18	---	---	---	---	0.4	---	540	---	---	0.013	0.28	---
ACW #11	ACW #11	05-Nov-96	29	7.3	25,000	13,000	560	---	2.9	0.4	0.31	---	---	---	---	0.3	---	1,200	---	---	<0.007	0.25	---
ACW #11	ACW #11	06-May-97	10,200	---	6,700	3,600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	21-Nov-97	27,900	7.6	16,000	9,800	520	---	<4	<0.5	0.16	---	---	---	---	0.3	---	1,000	---	---	<0.01	0.4	---
S98-0174	ACW #11	12-May-98	36,000	---	22,000	13,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0460	ACW #11	20-Oct-98	42,500	6.60	29,600	17,000	680	18.5	<10	0.43	0.11	---	---	---	---	0.32	---	1,500	---	---	<0.0025	0.68	---
M99-0014	ACW #11	12-May-99	19,800	---	11,100	7,200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0192	ACW #11	20-Oct-99	19,300	6.94	13,600	7,800	340	19.1	<4	0.60	0.055	---	0.096	0.0088	0.42	0.30	<0.002	1,100	<0.005	<0.005	0.0039	0.68	<0.005
M00-0087	ACW #11	09-May-00	31,500	---	21,000	18,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0227	ACW #11	01-Nov-00	25,700	6.82	21,900	10,000	490	13.1	<2	<0.4	<1	---	---	<0.1	0.37	0.46	<0.01	1,730	<0.01	---	<0.005	1.1	<0.05
ACW #12	ACW #12	19-Feb-97	1,610	---	950	380	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12D	ACW #12D	19-Feb-97	1,630	---	960	390	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12	ACW #12	08-May-97	1,240	---	900	290	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12	ACW #12	20-Aug-97	1,120	8.1	740	260	85	---	0.6	1.3	0.2	---	---	---	---	0.2	---	84	---	---	<0.01	0.5	---
ACW #12D	ACW #12D	20-Aug-97	1,150	8.1	740	280	90	---	0.7	1.3	0.3	---	---	---	---	0.2	---	91	---	---	<0.01	0.4	---
ACW #12	ACW #12	23-Oct-97	1,810	7.5	850	380	120	---	1	1	0.34	---	---	---	---	0.2	---	150	---	---	<0.01	0.2	---
S98-0058	ACW #12	24-Feb-98	2,050	7.9	1,200	470	150	---	0.8	2.2	0.4	---	---	---	---	---	---	170	---	---	---	---	---
S98-0059	ACW #12D	24-Feb-98	2,090	7.9	1,220	490	160	---	0.9	2.1	0.5	---	---	---	---	---	---	170	---	---	---	---	---
S98-0188	ACW #12	01-Jun-98	2,000	7.5	1,500	---	---	---	---	---	0.41	---	---	---	---	---	---	210	---	---	---	---	---
S98-0189	ACW #12D	01-Jun-98	2,300	7.4	1,700	540	150	---	0.74	1.3	0.54	---	---	---	---	---	---	200	---	---	---	---	---
S98-0294	ACW #12	11-Aug-98	1,790	7.61	1,240	440	130	19.8	<2	1.3	1.4	---	---	---	---	---	---	180	---	---	---	---	---
S98-0295	ACW #12D	11-Aug-98	2,020	7.51	1,300	520	140	19.3	<1	1.1	<2.5	---	---	---	---	---	---	180	---	---	---	---	---
S98-0474	ACW #12	22-Oct-98	2,280	7.39	1,520	610	170	20.0	<2	0.99	0.44					0.27	-	210	---	---	<0.0025	0.17	---
S98-0475	ACW #12D	22-Oct-98	2,310	7.36	1,690	600	170	20.1	<2	0.90	0.51	---	---	---	---	0.26	---	200	---	---	<0.0025	0.17	---
S99-0083	ACW #12	23-Feb-99	2,020	7.68	1,240	500	120	12.3	<2	1.2	0.18	---	---	---	---	---	---	200	---	---	---	---	---
S99-0084	ACW #12D	23-Feb-99	2,050	7.67	1,280	480	140	12.8	<2	1.1	0.23	---	---	---	---	---	---	190	---	---	---	---	---
M99-0024	ACW #12	14-May-99	2,390	7.47	1,440	500	120	23.8	<2	0.86	0.14	---	---	---	---	0.28	---	210	---	---	0.0063	0.16	---
M99-0026	ACW #12D	14-May-99	2,350	7.42	1,410	590	150	23.9	<2	0.86	0.18	---	---	---	---	0.26	---	210	---	---	0.0044	0.16	---
M99-0087	ACW #12	11-Aug-99	2,650	7.35	1,750	750	160	21.7	<0.2	0.85	0.45	---	---	---	---	---	---	270	---	---	---	---	---
M99-0088	ACW #12D	11-Aug-99	2,630	7.33	1,880	810	160	21.1	<1	0.85	0.53	---	---	---	---	---	---	280	---	---	---	---	---
M99-0202	ACW #12	22-Oct-99	2,180	7.50	1,620	650	130	19.8	<2	0.98	0.41	---	0.034	0.0094	0.13	0.26	<0.002	220	<0.005	<0.005	<0.0025	0.14	<0.005

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Magnesium, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium	Silica, mg/l	Silver, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as $CaCO_3$), mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Hydroxide, mg/l	Hardness (as $CaCO_3$), mg/l
ACW #11	ACW #11	27-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	27-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	01-Feb-95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	17-May-95	260	0.23	---	---	---	16	---	42	---	1,200	---	<0.020	230	---	---	---	3,300
ACW #11	ACW #11	27-Jun-95	270	0.2	---	---	---	16	---	45	---	980	---	<0.020	210	---	---	---	2,800
ACW #11	ACW #11	29-Aug-95	210	0.088	---	---	---	16	---	44	---	880	---	<0.020	220	---	---	---	2,700
ACW #11	ACW #11	07-Feb-96	230	0.13	---	---	---	26	---	47	---	1,500	---	<0.010	210	---	---	---	2,600
ACW #11	ACW #11	07-Feb-96	224	0.1	---	---	---	31	---	46	---	1,400	---	<0.1	200	---	---	---	2,590
ACW #11	ACW #11	08-May-96	220	0.09	---	---	---	29	---	50	---	1,160	---	<0.05	111	---	---	---	2,110
ACW #11	ACW #11	13-Aug-96	190	0.061	---	---	---	24	---	47	---	1,700	---	0.12	160	---	---	---	2,100
ACW #11	ACW #11	05-Nov-96	430	0.14	---	---	---	35	---	21	---	5,100	---	0.068	170	---	---	---	4,700
ACW #11	ACW #11	06-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #11	ACW #11	21-Nov-97	330	0.22	---	---	---	27	---	18	---	2,700	---	0.21	170	---	---	---	---
S98-0174	ACW #11	12-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0460	ACW #11	20-Oct-98	520	0.35	---	---	---	41.0	---	22	---	5,100	---	<0.05	180	180	<25	<25	5,900
M99-0014	ACW #11	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0192	ACW #11	20-Oct-99	280	0.17	<0.0002	0.0045	<0.02	27	---	19	<0.005	2,300	0.013	<0.05	140	140	<25	<25	3,900
M00-0087	ACW #11	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0227	ACW #11	01-Nov-00	560	0.37	0.00028	---	---	33	<0.1	26	<0.02	4,440	---	<0.1	190	190	<25	<25	6,600
ACW #12	ACW #12	19-Feb-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12D	ACW #12D	19-Feb-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12	ACW #12	08-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #12	ACW #12	20-Aug-97	31	0.05	---	---	---	23	---	18	---	100	---	<0.02	130	---	---	---	---
ACW #12D	ACW #12D	20-Aug-97	34	0.05	---	---	---	22	---	19	---	100	---	<0.02	120	---	---	---	---
ACW #12	ACW #12	23-Oct-97	54	0.03	---	---	---	13	---	20	---	120	---	<0.02	160	---	---	---	---
S98-0058	ACW #12	24-Feb-98	60	---	---	---	---	10	---	21	---	120	---	---	160	---	---	---	---
S98-0059	ACW #12D	24-Feb-98	60	---	---	---	---	10	---	21	---	120	---	---	150	---	---	---	---
S98-0188	ACW #12	01-Jun-98	73	---	---	---	---	9	---	23	---	130	---	---	150	150	---	---	---
S98-0189	ACW #12D	01-Jun-98	71	---	---	---	---	9	---	22	---	130	---	---	150	150	---	---	---
S98-0294	ACW #12	11-Aug-98	62	---	---	---	---	9.8	---	21	---	130	---	---	140	140	<25	<25	710
S98-0295	ACW #12D	11-Aug-98	61	---	---	---	---	9.7	---	24	---	130	---	---	160	160	<25	<25	700
S98-0474	ACW #12	22-Oct-98	80	0.032	---	---	---	10	---	23	---	140	---	<0.05	150	150	<25	<25	850
S98-0475	ACW #12D	22-Oct-98	72	0.029	---	---	---	10	---	24	---	130	---	<0.05	150	150	<25	<25	810
S99-0083	ACW #12	23-Feb-99	73	---	---	---	---	8.8	---	25	---	160	---	---	160	160	<25	<25	810
S99-0084	ACW #12D	23-Feb-99	68	---	---	---	---	8.5	---	26	---	160	---	---	160	160	<25	<25	750
M99-0024	ACW #12	14-May-99	74	0.026	---	---	---	9.5	---	23	---	150	---	<0.05	150	150	<25	<25	840
M99-0026	ACW #12D	14-May-99	73	0.025	---	---	---	9.0	---	26	---	140	---	<0.05	150	150	<25	<25	810
M99-0087	ACW #12	11-Aug-99	96	---	---	---	---	9.0	---	29	---	160	---	---	140	140	<25	<25	1100
M99-0088	ACW #12D	11-Aug-99	98	---	---	---	---	9.2	---	36	---	160	---	---	140	140	<25	<25	1100
M99-0202	ACW #12	22-Oct-99	0.77	0.024	<0.0002	0.0043	<0.02	8.4	---	21	<0.005	140	0.0088	<0.05	140	140	<25	<25	860

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	Total Xylene, µg/l	Gasoline Range Organics, mg/l	Acenaphthene, ug/l	Acenaphthylene, ug/l	Anthracene, ug/l	Benzo(a)anthracene, ug/l	Benzo(b)fluoranthene, ug/l	Benzo(k)fluoranthene, ug/l	Benzo(g,h,i)perylene, ugl/	Benzo(a)pyrene, ug/l	Chrysene, ug/l	Dibenzo(a,h)anthracene, ug/l	Fluoranthene, ug/l	Fluorene, ug/l	Indeno(1,2,3-cd)pyrene, ug/l	Naphthalene, ug/l	Phenanthrene, ug/l	Pyrene, ug/l
M99-0204	ACW #12D	22-Oct-99	4.4	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0024	ACW #12	22-Feb-00	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0098	ACW #12	11-May-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0197	ACW #12	07-Aug-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0240	ACW #12	03-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #13	ACW #13	20-Feb-97	<0.5	<0.5	1.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #13	ACW #13	08-May-97	0.61	0.58	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #13D	ACW #13D	08-May-97	0.65	0.62	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #13	ACW #13	20-Aug-97	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #13	ACW #13	23-Oct-97	0.59	0.76	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0060	ACW #13	24-Feb-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0190	ACW #13	01-Jun-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0296	ACW #13	11-Aug-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0476	ACW #13	22-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S99-0085	ACW #13	23-Feb-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0027	ACW #13	14-May-99	<2	<2	<2	<2	<0.25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0089	ACW #13	11-Aug-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0205	ACW #13	22-Oct-99	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0028	ACW #13	23-Feb-00	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0096	ACW #13	11-May-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0198	ACW #13	08-Aug-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0199	ACW #13D	08-Aug-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0242	ACW #13	06-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #14	ACW #14	20-Feb-97	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #14	ACW #14	07-May-97	0.88	1.1	0.52	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #14	ACW #14	20-Aug-97	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #14	ACW #14	22-Oct-97	<0.5	1.2	<0.5	1.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0173	ACW #14	24-Feb-98	<0.50	<0.50	<0.50	0.58J	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0184	ACW #14	13-May-98	0.75	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0293	ACW #14	11-Aug-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0471	ACW #14	21-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S99-0080	ACW #14	23-Feb-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0021	ACW #14	13-May-99	<2	<2	<2	<2	<0.25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0086	ACW #14	09-Aug-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0197	ACW #14	21-Oct-99	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0023	ACW #14	22-Feb-00	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0093	ACW #14	10-May-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0195	ACW #14	07-Aug-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0230	ACW #14	01-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0206	ACW #15	23-Oct-99	3.2	5.3	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Chloride, mg/l	Sulfate, mg/l	pH Temperature °C	Bromide, mg/l	Fluoride, mg/l	Nitrate-N, mg/l	Nitrate as NO3, mg/l	Aluminum, mg/l	Arsenic, mg/l	Barium, mg/l	Boron, mg/l	Cadmium, mg/l	Calcium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l	Iron, mg/l	Lead, mg/l
M99-0204	ACW #12D	22-Oct-99	2,170	7.48	1,390	560	140	19.8	<2	0.95	0.32	---	0.031	0.0084	0.13	0.26	<0.002	230	<0.005	<0.005	<0.0025	0.16	<0.005
M00-0024	ACW #12	22-Feb-00	1,950	7.38	1,260	680	130	16.4	<1.0	1.1	<0.5	---	---	---	---	---	---	210	---	---	---	---	---
M00-0098	ACW #12	11-May-00	1,590	7.88	989	470	100	18.5	0.47	1.2	0.15	---	---	---	---	---	---	150	---	---	---	---	---
M00-0197	ACW #12	07-Aug-00	1,800	7.63	1,270	460	110	25.4	0.47	1.1	0.087	---	---	---	---	---	---	140	---	---	---	---	---
M00-0240	ACW #12	03-Nov-00	2,520	7.5	1,780	890	130	19.2	<20	1.1	0.30	---	---	<0.1	0.14	0.29	<0.01	200	<0.01	---	0.0059	1.9	<0.05
ACW #13	ACW #13	20-Feb-97	681	---	440	53	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #13	ACW #13	08-May-97	643	---	460	57	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #13D	ACW #13D	08-May-97	630	---	460	52	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #13	ACW #13	20-Aug-97	654	8.3	440	55	96	---	0.4	1.3	0.99	---	---	---	---	0.2	---	39	---	---	<0.01	0.3	---
ACW #13	ACW #13	23-Oct-97	728	8.3	400	50	95	---	0.4	1.3	1	---	---	---	---	0.2	---	34	---	---	<0.01	0.2	---
S98-0060	ACW #13	24-Feb-98	727	8.4	450	59	100	---	0.5	1.6	1.2	---	---	---	---	---	---	31	---	---	---	---	---
S98-0190	ACW #13	01-Jun-98	700	8.0	450	---	---	---	---	---	1.2	---	---	---	---	---	---	40	---	---	---	---	---
S98-0296	ACW #13	11-Aug-98	679	7.93	467	48	110	19.7	<5	1.6	3.3	---	---	---	---	---	---	43	---	---	---	---	---
S98-0476	ACW #13	22-Oct-98	686	7.94	439	47	92	19.9	<5	1.3	1.3	---	---	---	---	0.23	---	48	---	---	<0.0025	0.37	---
S99-0085	ACW #13	23-Feb-99	792	8.18	493	74	93	12.6	0.3	1.5	0.74	---	---	---	---	---	---	44	---	---	---	---	---
M99-0027	ACW #13	14-May-99	693	7.96	403	45	96	24.1	0.4	1.3	1.4	---	---	---	---	0.25	---	46	---	---	0.0062	0.17	---
M99-0089	ACW #13	11-Aug-99	676	7.95	359	41	97	21.9	1.2	1.4	1.4	---	---	---	---	---	---	49	---	---	---	---	---
M99-0205	ACW #13	22-Oct-99	674	7.98	436	48	93	20.0	0.36	1.4	1.3	---	0.11	0.013	0.057	0.23	<0.002	49	0.0055	<0.005	<0.0025	0.23	<0.005
M00-0028	ACW #13	23-Feb-00	697	7.84	479	53	98	16.9	<1.0	1.5	1.4	---	---	---	---	---	---	44	---	---	---	---	---
M00-0096	ACW #13	11-May-00	697	8.00	459	47	120	18.2	0.33	1.3	1.5	---	---	---	---	---	---	48	---	---	---	---	---
M00-0198	ACW #13	08-Aug-00	676	7.90	363	41	100	25.6	0.31	1.3	1.2	---	---	---	---	---	---	49	---	---	---	---	---
M00-0199	ACW #13D	08-Aug-00	662	7.94	381	44	95	25.7	0.30	1.4	1.2	---	---	---	---	---	---	50	---	---	---	---	---
M00-0242	ACW #13	06-Nov-00	1,330	7.7	947	360	110	16.7	<2	1.4	1.0	---	---	<0.1	0.061	0.26	<0.01	55	<0.01	---	<0.005	0.34	<0.05
ACW #14	ACW #14	20-Feb-97	830	---	570	86	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #14	ACW #14	07-May-97	746	---	480	72	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #14	ACW #14	20-Aug-97	691	7.8	460	80	82	---	0.4	1.6	0.94	---	---	---	---	0.2	---	45	---	---	<0.01	0.5	---
ACW #14	ACW #14	22-Oct-97	747	8.1	440	71	95	---	0.5	1.5	0.9	---	---	---	---	0.2	---	46	---	---	<0.01	0.3	---
S98-0173	ACW #14	24-Feb-98	755	8.2	470	40	130	---	0.5	2	1.8	---	---	---	---	---	---	46	---	---	---	---	---
S98-0184	ACW #14	13-May-98	880	7.9	530	58	110	---	<2	1.7	1.7	---	---	---	---	---	---	47	---	---	---	---	---
S98-0293	ACW #14	11-Aug-98	730	7.76	496	160	110	19.2	<5	1.9	2.5	---	---	---	---	---	---	48	---	---	---	---	---
S98-0471	ACW #14	21-Oct-98	771	7.70	466	71	100	20.2	<2	1.9	1.7	---	---	---	---	0.25	---	52	---	---	0.0026	0.20	---
S99-0080	ACW #14	23-Feb-99	859	7.92	524	88	92	12.2	0.3	1.8	1.9	---	---	---	---	---	---	47	---	---	---	---	---
M99-0021	ACW #14	13-May-99	764	7.89	500	62	100	23.5	0.4	1.6	2.0	---	---	---	---	0.27	---	49	---	---	0.016	0.17	---
M99-0086	ACW #14	09-Aug-99	791	7.80	471	58	120	21.3	0.3	1.6	1.8	---	---	---	---	---	---	52	---	---	---	---	---
M99-0197	ACW #14	21-Oct-99	753	7.79	469	68	100	20.4	0.37	1.8	2.0	---	0.078	0.013	0.046	0.24	<0.002	48	<0.005	<0.005	<0.0025	0.21	<0.005
M00-0023	ACW #14	22-Feb-00	738	7.65	499	53	97	16.1	<1.0	1.6	2.0	---	---	---	---	---	---	62	---	---	---	---	---
M00-0093	ACW #14	10-May-00	761	7.66	485	61	110	21.2	0.38	1.5	1.8	---	---	---	---	---	---	51	---	---	---	---	---
M00-0195	ACW #14	07-Aug-00	750	7.69	439	65	110	25.4	0.27	1.5	1.8	---	---	---	---	---	---	50	---	---	---	---	---
M00-0230	ACW #14	01-Nov-00	1,630	7.78	1,090	420	120	17.1	<2	1.6	1.4	---	---	<0.1	0.068	0.30	<0.01	65	<0.01	---	<0.005	0.27	<0.05
M99-0206	ACW #15	23-Oct-99	1,010	8.24	587	180	87	21.2	<2	1.6	0.81	---	0.79	0.0089	0.11	0.21	<0.002	66	0.022	<0.005	0.0039	0.75	<0.005

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Magnesium, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium	Silica, mg/l	Silver, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as $CaCO_3$), mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Hydroxide, mg/l	Hardness (as $CaCO_3$), mg/l
M99-0204	ACW #12D	22-Oct-99	79	0.024	<0.0002	<0.005	<0.02	8.7	---	20	<0.005	140	0.0086	<0.05	140	140	<25	<25	890
M00-0024	ACW #12	22-Feb-00	71	---	---	---	---	9.2	---	22	---	130	---	---	130	130	<25	<25	800
M00-0098	ACW #12	11-May-00	51	---	---	---	---	9.3	---	28	---	120	---	---	140	140	<25	<25	590
M00-0197	ACW #12	07-Aug-00	45	---	---	---	---	10	---	33	---	110	---	---	140	140	<25	<25	520
M00-0240	ACW #12	03-Nov-00	71	0.053	<0.0002	---	---	16	<0.1	29	<0.02	280	---	<0.1	140	140	<25	<25	800
ACW #13	ACW #13	20-Feb-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #13	ACW #13	08-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #13D	ACW #13D	08-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #13	ACW #13	20-Aug-97	14	0.02	---	---	---	10	---	20	---	79	---	<0.02	160	---	---	---	---
ACW #13	ACW #13	23-Oct-97	14	<0.01	---	---	---	15	---	21	---	84	---	<0.02	170	---	---	---	---
S98-0060	ACW #13	24-Feb-98	14	---	---	---	---	17	---	21	---	87	---	---	170	---	---	---	---
S98-0190	ACW #13	01-Jun-98	14	---	---	---	---	10	---	21	---	85	---	---	170	170	---	---	---
S98-0296	ACW #13	11-Aug-98	14	---	---	---	---	9.4	---	15	---	85	---	---	170	170	<25	<25	170
S98-0476	ACW #13	22-Oct-98	16	0.017	---	---	---	7.5	---	23	---	87	---	<0.05	170	170	<25	<25	190
S99-0085	ACW #13	23-Feb-99	15	---	---	---	---	7.0	---	23	---	110	---	---	180	180	<25	<25	170
M99-0027	ACW #13	14-May-99	15	0.0084	---	---	---	5.3	---	28	---	86	---	<0.05	170	170	<25	<25	180
M99-0089	ACW #13	11-Aug-99	16	---	---	---	---	5.0	---	26	---	86	---	---	170	170	<25	<25	190
M99-0205	ACW #13	22-Oct-99	15	0.018	<0.0002	0.0044	<0.02	5.9	---	19	<0.005	89	<0.005	<0.05	160	160	<25	<25	190
M00-0028	ACW #13	23-Feb-00	14	---	---	---	---	6.3	---	14	---	82	---	---	160	160	<25	<25	170
M00-0096	ACW #13	11-May-00	16	---	---	---	---	6.6	---	30	---	88	---	---	170	170	<25	<25	190
M00-0198	ACW #13	08-Aug-00	15	---	---	---	---	5.8	---	<2.0	---	82	---	---	160	160	<25	<25	180
M00-0199	ACW #13D	08-Aug-00	16	---	---	---	---	6.0	---	37	---	84	---	---	160	160	<25	<25	180
M00-0242	ACW #13	06-Nov-00	19	0.024	<0.0002	---	---	11	<0.1	29	<0.02	210	---	<0.1	170	170	<25	<25	220
ACW #14	ACW #14	20-Feb-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #14	ACW #14	07-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ACW #14	ACW #14	20-Aug-97	15	0.03	---	---	---	5	---	20	---	81	---	0.03	150	---	---	---	---
ACW #14	ACW #14	22-Oct-97	16	0.01	---	---	---	5	---	20	---	81	---	<0.02	180	---	---	---	---
S98-0173	ACW #14	24-Feb-98	16	---	---	---	---	5	---	22	---	87	---	---	180	---	---	---	---
S98-0184	ACW #14	13-May-98	18	---	---	---	---	6	---	24	---	97	---	---	170	170	---	---	---
S98-0293	ACW #14	11-Aug-98	16	---	---	---	---	5.5	---	25	---	90	---	---	170	170	<25	<25	190
S98-0471	ACW #14	21-Oct-98	19	0.014	---	---	---	6.2	---	25	---	97	---	<0.05	170	170	<25	<25	210
S99-0080	ACW #14	23-Feb-99	17	---	---	---	---	6.0	---	25	---	110	---	---	180	180	<25	<25	190
M99-0021	ACW #14	13-May-99	18	0.011	---	---	---	5.7	---	28	---	95	---	<0.05	170	170	<25	<25	200
M99-0086	ACW #14	09-Aug-99	19	---	---	---	---	5.3	---	24	---	91	---	---	170	170	<25	<25	210
M99-0197	ACW #14	21-Oct-99	18	0.012	<0.0002	<0.005	<0.02	5.8	---	21	<0.005	98	0.0062	<0.05	170	170	<25	<25	200
M00-0023	ACW #14	22-Feb-00	22	---	---	---	---	5.4	---	46	---	97	---	---	160	160	<25	<25	250
M00-0093	ACW #14	10-May-00	19	---	---	---	---	6.6	---	34	---	110	---	---	170	170	<25	<25	200
M00-0195	ACW #14	07-Aug-00	18	---	---	---	---	6.0	---	39	---	95	---	---	170	170	<25	<25	200
M00-0230	ACW #14	01-Nov-00	23	0.037	<0.0002	---	---	14	<0.1	25	<0.02	300	---	<0.1	170	170	<25	<25	260
M99-0206	ACW #15	23-Oct-99	20	0.051	<0.0002	0.040	<0.02	28	---	30	<0.005	130	<0.000	0.096	130	130	<25	<25	250

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	Total Xylene, µg/l	Gasoline Range Organics, mg/l	Acenaphthene, ug/l	Acenaphthylene, ug/l	Anthracene, ug/l	Benzo(a)anthracene, ug/l	Benzo(b)fluoranthene, ug/l	Benzo(k)fluoranthene, ug/l	Benzo(g,h,i)perylene, ug/l	Benzo(a)pyrene, ug/l	Chrysene, ug/l	Dibenzo(a,h)anthracene, ug/l	Fluoranthene, ug/l	Fluorene, ug/l	Indeno(1,2,3-cd)pyrene, ug/l	Naphthalene, ug/l	Phenanthrene, ug/l	Pyrene, ug/l
M00-0026	ACW #15	23-Feb-00	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0027	ACW #15D	23-Feb-00	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0095	ACW #15	11-May-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0200	ACW #15	08-Aug-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0236	ACW #15	02-Nov-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0241	RW #1	03-Nov-00	130	40	73	120	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0239	RW #2	03-Nov-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #1	ENSR #1	07-May-97	7.3	3.7	2.4	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #1	ENSR #1	21-Oct-97	13	6.3	4.2	5.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0172	ENSR #1	12-May-98	13	4.6	4.0	4.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0457	ENSR #1	20-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0004	ENSR #1	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0188	ENSR #1	20-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0082	ENSR #1	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0220	ENSR #1	27-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0221	ENSR #1D	27-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #2	ENSR #2	06-May-97	250	230	110	190	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #2	ENSR #2	20-Oct-97	130	160	77	120	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0169	ENSR #2	12-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0453	ENSR #2	19-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0009	ENSR #2	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0183	ENSR #2	19-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0080	ENSR #2	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #3	ENSR #3	07-May-97	7.6	3.3	2.9	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #3D	ENSR #3D	07-May-97	6.8	3.1	2.8	2.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #3	ENSR #3	21-Oct-97	5	2.5	3	4.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0175	ENSR #3	12-May-98	9.5	3.4	1.9	2.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0176	ENSR #3D	12-May-98	14	4.4	2.3	4.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0461	ENSR #3	20-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0462	ENSR #3D	20-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0006	ENSR #3	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0007	ENSR #3D	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0189	ENSR #3	20-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0190	ENSR #3D	20-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0083	ENSR #3	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0084	ENSR #3D	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0222	ENSR #3	27-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0063	Oxy Production Well	24-Feb-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0186	Oxy Production Well	13-May-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0299	Oxy Production Well	11-Aug-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Chloride, mg/l	Sulfate, mg/l	pH Temperature °C	Bromide, mg/l	Fluoride, mg/l	Nitrate-N, mg/l	Nitrate as NO3, mg/l	Aluminum, mg/l	Arsenic, mg/l	Barium, mg/l	Boron, mg/l	Cadmium, mg/l	Calcium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l	Iron, mg/l	Lead, mg/l
M00-0026	ACW #15	23-Feb-00	665	7.71	402	42	84	16.6	<1.0	1.4	1.2	---	---	---	---	---	---	62	---	---	---	---	---
M00-0027	ACW #15D	23-Feb-00	660	7.71	394	42	92	16.6	<20	1.5	1.1	---	---	---	---	---	---	58	---	---	---	---	---
M00-0095	ACW #15	11-May-00	654	7.95	431	49	91	18.4	0.34	1.4	0.86	---	---	---	---	---	---	47	---	---	---	---	---
M00-0200	ACW #15	08-Aug-00	605	7.94	340	35	84	25.6	0.25	1.4	0.91	---	---	---	---	---	---	45	---	---	---	---	---
M00-0236	ACW #15	02-Nov-00	1,380	7.8	876	360	100	18.4	<20	1.4	0.93	---	---	<0.1	0.064	0.27	<0.01	53	<0.01	---	<0.005	0.22	<0.05
M00-0241	RW #1	03-Nov-00	62,000	8.3	43,900	32,000	790	19.3	<200	6.0	0.10	---	---	0.82	0.47	2.4	<0.05	760	<0.05	---	<0.025	<0.5	<0.25
M00-0239	RW #2	03-Nov-00	7,340	6.8	5,660	2,800	240	19.3	<20	0.44	0.11	---	---	<0.1	0.18	<0.1	<0.01	610	0.012	---	<0.005	0.12	<0.05
ENSR #1	ENSR #1	07-May-97	8,620	---	5,200	3,200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #1	ENSR #1	21-Oct-97	13,800	---	7,600	4,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0172	ENSR #1	12-May-98	12,000	---	6,700	3,600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0457	ENSR #1	20-Oct-98	12,400	---	7,590	4,200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0004	ENSR #1	11-May-99	14,700	---	8,450	5,500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0188	ENSR #1	20-Oct-99	12,400	---	6,290	4,100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0082	ENSR #1	09-May-00	12,800	---	7,420	6,200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0220	ENSR #1	27-Oct-00	10,200	---	6,690	3,800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0221	ENSR #1D	27-Oct-00	10,600	---	7,140	4,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #2	ENSR #2	06-May-97	50,000	---	27,000	17,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #2	ENSR #2	20-Oct-97	57,900	---	30,000	17,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0169	ENSR #2	12-May-98	38,000	---	21,000	13,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0453	ENSR #2	19-Oct-98	44,800	---	30,000	18,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0009	ENSR #2	11-May-99	49,100	---	31,200	18,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0183	ENSR #2	19-Oct-99	28,900	---	16,600	9,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0080	ENSR #2	09-May-00	42,900	---	26,700	18,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
ENSR #3	ENSR #3	07-May-97	2,050	---	1,500	650	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #3D	ENSR #3D	07-May-97	1,990	---	1,400	480	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #3	ENSR #3	21-Oct-97	2,230	---	1,300	580	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0175	ENSR #3	12-May-98	2,400	---	1,400	610	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0176	ENSR #3D	12-May-98	2,200	---	1,300	550	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0461	ENSR #3	20-Oct-98	2,260	---	1,580	590	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0462	ENSR #3D	20-Oct-98	2,240	---	1,290	540	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0006	ENSR #3	11-May-99	2,490	---	1,370	500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0007	ENSR #3D	11-May-99	2,480	---	1,380	610	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0189	ENSR #3	20-Oct-99	2,390	---	1,630	600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0190	ENSR #3D	20-Oct-99	2,390	---	1,560	590	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0083	ENSR #3	09-May-00	2,360	---	1,580	710	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0084	ENSR #3D	09-May-00	2,410	---	1,580	710	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0222	ENSR #3	27-Oct-00	2,410	---	1,870	640	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0063	Oxy Production Well	24-Feb-98	802	8.1	480	120	68	---	0.7	1.3	0.9	---	---	---	---	---	---	60	---	---	---	---	---
S98-0186	Oxy Production Well	13-May-98	800	7.8	480	120	61	---	<2	1.1	0.93	---	---	---	---	---	---	66	---	---	---	---	---
S98-0299	Oxy Production Well	11-Aug-98	762	7.78	604	120	58	20.2	<1	<0.4	.85/<0.0	3.7	---	---	---	---	---	72	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Magnesium, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium	Silica, mg/l	Silver, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as $CaCO_3$), mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Hydroxide, mg/l	Hardness (as $CaCO_3$), mg/l
M00-0026	ACW #15	23-Feb-00	15	---	---	---	---	5.7	---	27	---	81	---	---	170	170	<25	<25	220
M00-0027	ACW #15D	23-Feb-00	15	---	---	---	---	5.8	---	24	---	82	---	---	180	180	<25	<25	210
M00-0095	ACW #15	11-May-00	14	---	---	---	---	4.9	---	29	---	76	---	---	170	170	<25	<25	170
M00-0200	ACW #15	08-Aug-00	14	---	---	---	---	9.1	---	34	---	77	---	---	170	170	<25	<25	160
M00-0236	ACW #15	02-Nov-00	18	0.026	<0.0002	---	---	16	<0.1	27	<0.02	250	---	<0.1	180	180	<25	<25	210
M00-0241	RW #1	03-Nov-00	330	2.5	0.0029	---	---	100	<0.5	19	<0.1	22,000	---	<0.5	1,500	1,500	25	<25	3,200
M00-0239	RW #2	03-Nov-00	190	0.83	<0.0002	---	---	15	<0.1	39	<0.02	680	---	<0.1	470	470	<25	<25	2,300
ENSR #1	ENSR #1	07-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #1	ENSR #1	21-Oct-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0172	ENSR #1	12-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0457	ENSR #1	20-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0004	ENSR #1	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0188	ENSR #1	20-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0082	ENSR #1	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0220	ENSR #1	27-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0221	ENSR #1D	27-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #2	ENSR #2	06-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #2	ENSR #2	20-Oct-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0169	ENSR #2	12-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0453	ENSR #2	19-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0009	ENSR #2	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0183	ENSR #2	19-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0080	ENSR #2	09-May-00					---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #3	ENSR #3	07-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #3D	ENSR #3D	07-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ENSR #3	ENSR #3	21-Oct-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0175	ENSR #3	12-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0176	ENSR #3D	12-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0461	ENSR #3	20-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0462	ENSR #3D	20-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0006	ENSR #3	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0007	ENSR #3D	11-May-99	---											---				---	---
M99-0189	ENSR #3	20-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0190	ENSR #3D	20-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0083	ENSR #3	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0084	ENSR #3D	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0222	ENSR #3	27-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0063	Oxy Production Well	24-Feb-98	18	---	---	---	---	4	---	24	---	60	---	---	160	---	---	---	---
S98-0186	Oxy Production Well	13-May-98	20	---	---	---	---	5	---	27	---	65	---	---	150	150	---	---	---
S98-0299	Oxy Production Well	11-Aug-98	20	---	---	---	---	5.0	---	28	---	67	---	---	150	150	<25	<25	260

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES,
JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	Total Xylene, µg/l	Gasoline Range Organics, mg/l	Acenaphthene, ug/l	Acenaphthylene, ug/l	Anthracene, ug/l	Benzo(a)anthracene, ug/l	Benzo(b)fluoranthene, ug/l	Benzo(k)fluoranthene, ug/l	Benzo(g,h,i)perylene, ug/l	Benzo(a)pyrene, ug/l	Chrysene, ug/l	Dibenzo(a,h)anthracene, ug/l	Fluoranthene, ug/l	Fluorene, ug/l	Indeno(1,2,3-cd)pyrene, ug/l	Naphthalene, ug/l	Phenanthrene, ug/l	Pyrene, ug/l
S98-0465	Oxy Production Well	20-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S99-0082	Oxy Production Well	23-Feb-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0025	Oxy Production Well	13-May-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0093	Oxy Production Well	11-Aug-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0203	Oxy Production Well	22-Oct-99	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0025	Oxy Production Well	23-Feb-00	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0097	Oxy Production Well	11-May-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0196	Oxy Production Well	07-Aug-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0235	Oxy Production Well	02-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Production Well #1	Production Well #1	08-May-97	0.56	0.55	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Production Well #1	Production Well #1	23-Oct-97	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0193	Production Well #1	14-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0194	Production Well #1D	14-May-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0479	Production Well #1	22-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0030	Production Well #1	14-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0210	Production Well #1	23-Oct-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0224	Production Well #1	27-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0057	Production Well Dooms	24-Feb-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0180	Production Well Dooms	13-May-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0292	Production Well Dooms	10-Aug-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0464	Production Well Dooms	20-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S99-0081	Production Well Dooms	23-Feb-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0018	Production Well Dooms	13-May-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0092	Production Well Dooms	11-Aug-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0193	Production Well Dooms	21-Oct-99	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0022	Production Well Dooms	23-Feb-00	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0094	Production Well Dooms	10-May-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0204	Production Well Dooms	14-Aug-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0233	Production Well Dooms	02-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PTP #1	PTP #1	07-May-97	38	0.51	22	8.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PTP #1	PTP #1	21-Oct-97	7.9	<0.5	18	3.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0177	PTP #1	12 May 98	62	1.6	21	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0463	PTP #1	20-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0008	PTP #1	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0191	PTP #1	20-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0085	PTP #1	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0223	PTP #1	27-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0451	Bailer Blank	19-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0066	Bailer Blank Pre Sample	24-Feb-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0158	Bailer Blank Pre Sample	11-May-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Chloride, mg/l	Sulfate, mg/l	pH Temperature °C	Bromide, mg/l	Fluoride, mg/l	Nitrate-N, mg/l	Nitrate as NO3, mg/l	Aluminum, mg/l	Arsenic, mg/l	Barium, mg/l	Boron, mg/l	Cadmium, mg/l	Calcium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l	Iron, mg/l	Lead, mg/l
S98-0465	Oxy Production Well	20-Oct-98	734	7.79	488	100	55	17.3	<2	1.1	0.76	---	---	---	---	---	---	---	---	---	---	---	---
S99-0082	Oxy Production Well	23-Feb-99	810	7.99	407	120	45	14.5	0.5	1.0	0.71	---	---	---	---	---	---	80	---	---	---	---	---
M99-0025	Oxy Production Well	13-May-99	808	7.91	468	120	59	23.6	0.6	0.96	0.27	---	---	---	---	0.20	---	74	---	---	<0.0025	0.74	---
M99-0093	Oxy Production Well	11-Aug-99	831	7.67	466	140	59	20.5	0.5	1.0	0.78	---	---	---	---	---	---	75	---	---	---	---	---
M99-0203	Oxy Production Well	22-Oct-99	788	7.86	490	130	56	19.2	0.53	1.0	0.41	---	<0.025	0.011	0.10	0.18	---	72	<0.005	<0.005	0.022	2.8	0.0057
M00-0025	Oxy Production Well	23-Feb-00	630	7.85	392	38	77	17.6	<1.0	1.1	1.2	---	---	---	---	---	---	48	---	---	---	---	---
M00-0097	Oxy Production Well	11-May-00	835	7.96	504	120	63	19.6	0.50	0.99	0.84	---	---	---	---	---	---	71	---	---	---	---	---
M00-0196	Oxy Production Well	07-Aug-00	802	7.96	433	120	59	25.9	0.44	0.99	0.71	---	---	---	---	---	---	74	---	---	---	---	---
M00-0235	Oxy Production Well	02-Nov-00	662	7.8	475	120	60	18.6	<2	1.1	0.70	---	---	<0.1	0.095	0.21	<0.01	76	<0.01	---	<0.005	0.93	<0.05
Production Well #1	Production Well #1	08-May-97	718	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Production Well #1	Production Well #1	23-Oct-97	890	---	470	91	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0193	Production Well #1	14-May-98	850	---	500	67	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0194	Production Well #1D	14-May-98	860	---	520	67	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0479	Production Well #1	22-Oct-98	994	---	659	56	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0030	Production Well #1	14-May-99	846	---	469	70	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0210	Production Well #1	23-Oct-99	891	---	540	2.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0224	Production Well #1	27-Oct-00	850	---	603	94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0057	Production Well Dooms	24-Feb-98	634	8.1	410	38	85	---	0.3	1.1	1.2	---	---	---	---	---	---	46	---	---	---	---	---
S98-0180	Production Well Dooms	13-May-98	640	7.8	410	30	81	---	<2	1.2	1.2	---	---	---	---	---	---	---	---	---	---	---	---
S98-0292	Production Well Dooms	10-Aug-98	629	7.76	450	34	83	20.2	<1	<0.4	1.2/<0.05	5.3	---	---	---	---	---	53	---	---	---	---	---
S98-0464	Production Well Dooms	20-Oct-98	636	7.71	464	35	80	18.0	<2	1.0	1.2	---	---	---	---	0.22	---	52	---	---	<0.0025	0.060	---
S99-0081	Production Well Dooms	23-Feb-99	627	7.86	364	31	73	14.9	0.3	0.89	0.89	---	---	---	---	---	---	48	---	---	---	---	---
M99-0018	Production Well Dooms	13-May-99	630	7.76	381	34	80	23.6	0.4	0.84	0.62	---	---	---	---	0.24	---	51	---	---	<0.0025	0.14	---
M99-0092	Production Well Dooms	11-Aug-99	629	7.69	372	30	79	19.8	0.2	0.83	1.1	---	---	---	---	---	---	51	---	---	---	---	---
M99-0193	Production Well Dooms	21-Oct-99	617	7.74	400	32	74	19.2	0.29	0.86	1.1	---	0.042	0.0096	0.047	0.23	<0.002	51	<0.005	<0.005	0.0021	0.16	<0.001
M00-0022	Production Well Dooms	23-Feb-00	814	7.92	506	130	54	17.4	0.58	1.1	0.72	---	---	---	---	---	---	68	---	---	---	---	---
M00-0094	Production Well Dooms	10-May-00	619	7.69	417	31	77	21.3	0.27	0.82	1.2	---	---	---	---	---	---	44	---	---	---	---	---
M00-0204	Production Well Dooms	14-Aug-00	597	7.72	400	28	75	27.2	<0.2	0.93	1.2	---	---	---	---	---	---	50	---	---	---	---	---
M00-0233	Production Well Dooms	02-Nov-00	530	7.8	375	32	79	18.4	<2	1.0	0.95	---	---	<0.1	0.045	0.25	<0.01	53	<0.01	---	0.037	0.28	<0.05
PTP #1	PTP #1	07-May-97	2,420	---	1,500	490	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PTP #1	PTP #1	21-Oct-97	2,250	---	1,400	470	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0177	PTP #1	12-May-98	2,300	---	1,400	480	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0463	PTP #1	20-Oct-98	2,090	---	1,410	380	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0008	PTP #1	11-May-99	2,250	---	1,240	330	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0191	PTP #1	20-Oct-99	2,300	---	1,630	460	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0085	PTP #1	09-May-00	2,210	---	1,400	510	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0223	PTP #1	27-Oct-00	2,050	---	1,570	530	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0451	Bailer Blank	19-Oct-98	1.13	5.95	<25	<0.1	<0.1	17.8	<0.2	<0.4	<0.05	---	---	---	---	<0.01	---	0.49	---	---	<0.0025	<0.05	---
S98-0066	Bailer Blank Pre Sample	24-Feb-98	3	5.7	<20	<0.2	<1	---	<0.2	<0.1	<0.2	---	---	---	---	---	---	<1	---	---	---	---	---
S98-0158	Bailer Blank Pre Sample	11-May-98	9.6	5.8	<20	<0.2	<1	---	<0.2	<0.1	<0.05	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Magnesium, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium	Silica, mg/l	Silver, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as $CaCO_3$), mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Hydroxide, mg/l	Hardness (as $CaCO_3$), mg/l
S98-0465	Oxy Production Well	20-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	160	160	<25	<25	240
S99-0082	Oxy Production Well	23-Feb-99	24	---	---	---	---	6.2	---	24	---	82	---	---	160	160	<25	<25	300
M99-0025	Oxy Production Well	13-May-99	22	0.015	---	---	---	5.1	---	32	---	71	---	0.28	150	150	<25	<25	280
M99-0093	Oxy Production Well	11-Aug-99	22.0	---	---	---	---	4.7	---	27	---	72	---	---	140	140	<25	<25	280
M99-0203	Oxy Production Well	22-Oct-99	21	0.078	<0.0002	0.0049	<0.02	4.8	---	21	<0.005	73	<0.005	0.50	140	140	<25	<25	270
M00-0025	Oxy Production Well	23-Feb-00	16	---	---	---	---	4.1	---	23	---	71	---	---	190	190	<25	<25	180
M00-0097	Oxy Production Well	11-May-00	21	---	---	---	---	5.0	---	35	---	72	---	---	150	150	<25	<25	260
M00-0196	Oxy Production Well	07-Aug-00	21	---	---	---	---	5.2	---	48	---	68	---	---	150	150	<25	<25	260
M00-0235	Oxy Production Well	02-Nov-00	22	0.019	<0.0002	---	---	5.8	<0.1	31	<0.02	71	---	0.32	150	150	<25	<25	280
Production Well #1	Production Well #1	08-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Production Well #1	Production Well #1	23-Oct-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0193	Production Well #1	14-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0194	Production Well #1D	14-May-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0479	Production Well #1	22-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0030	Production Well #1	14-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0210	Production Well #1	23-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0224	Production Well #1	27-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0057	Production Well Dooms	24-Feb-98	16	---	---	---	---	4	---	25	---	64	---	---	200	---	---	---	---
S98-0180	Production Well Dooms	13-May-98	---	---	---	---	---	---	---	---	---	---	---	---	190	190	---	---	---
S98-0292	Production Well Dooms	10-Aug-98	17	---	---	---	---	4.3	---	27	---	71	---	---	200	200	<25	<25	200
S98-0464	Production Well Dooms	20-Oct-98	17	<0.0025	---	---	---	4.1	---	29	---	69	---	<0.05	190	190	<25	<25	200
S99-0081	Production Well Dooms	23-Feb-99	16	---	---	---	---	4.1	---	26	---	72	---	---	190	190	<25	<25	190
M99-0018	Production Well Dooms	13-May-99	17	0.039	---	---	---	4.0	---	33	---	72	---	0.089	180	180	<25	<25	200
M99-0092	Production Well Dooms	11-Aug-99	17	---	---	---	---	3.8	---	27	---	73	---	---	190	190	<25	<25	200
M99-0193	Production Well Dooms	21-Oct-99	18	0.0093	<0.0002	0.0048	<0.02	4.7	---	24	<0.005	77	0.0055	0.11	180	180	<25	<25	200
M00-0022	Production Well Dooms	23-Feb-00	20	---	---	---	---	4.9	---	12	---	69	---	---	140	140	<25	<25	250
M00-0094	Production Well Dooms	10-May-00	15	---	---	---	---	4.2	---	29	---	72	---	---	190	190	<25	<25	170
M00-0204	Production Well Dooms	14-Aug-00	16	---	---	---	---	70	---	30	---	4.2	---	---	180	180	<25	<25	190
M00-0233	Production Well Dooms	02-Nov-00	18	0.013	<0.0002	---	---	5.0	<0.1	32	<0.02	79	---	0.19	190	190	<25	<25	210
PTP #1	PTP #1	07-May-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PTP #1	PTP #1	21-Oct-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0177	PTP #1	12-May-98					---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0463	PTP #1	20-Oct-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0008	PTP #1	11-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0191	PTP #1	20-Oct-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0085	PTP #1	09-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0223	PTP #1	27-Oct-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0451	Bailer Blank	19-Oct-98	<0.25	<0.0025	---	---	---	<1	---	<0.25	---	1.1	---	<0.05	<25	<25	<25	<25	1.2
S98-0066	Bailer Blank Pre Sample	24-Feb-98	<1	---	---	---	---	<1	---	<0.05	---	<1	---	---	<5	---	---	---	---
S98-0158	Bailer Blank Pre Sample	11-May-98	---	---	---	---	---	---	---	---	---	---	---	---	<5	<5	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	Total Xylene, µg/l	Gasoline Range Organics, mg/l	Acenaphthene, ug/l	Acenaphthylene, ug/l	Anthracene, ug/l	Benzo(a)anthracene, ug/l	Benzo(b)fluoranthene, ug/l	Benzo(k)fluoranthene, ug/l	Benzo(g,h,i)perylene, ug/l	Benzo(a)pyrene, ug/l	Chrysene, ug/l	Dibenzo(a,h)anthracene, ug/l	Fluoranthene, ug/l	Fluorene, ug/l	Indeno(1,2,3-cd)pyrene, ug/l	Naphthalene, ug/l	Phenanthrene, ug/l	Pyrene, ug/l
S98-0290	Bailer Blank Pre Sample	10-Aug-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0178	Bailer Blank-Middle Sample	12-May-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0466	Bailer Blank-Middle Sample	21-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0061	Bailer Blank Post Sample	24-Feb-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0191	Bailer Blank Post Sample	14-May-98	0.66	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0225	Bailer Blank Post Sample	01-Jun-98	12	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0297	Bailer Blank Post Sample	11-Aug-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0478	Bailer Blank Post Sample	22-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S99-0078	Bailer Blank Before	23-Feb-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S99-0087	Bailer Blank After Sampling	23-Feb-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0002	Bailer Blank Before Sampling	10-May-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0016	Bailer Blank Middle	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0029	Bailer Blank After Sampling	14-May-99	<2	<2	<2	<2	<0.25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0085	Bailer Blank Before Sampling	09-Aug-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0090	Bailer Blank After Sampling	11-Aug-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0182	Bailer Blank Before Sampling	18-Oct-99	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0198	Bailer Blank Middle	22-Oct-99	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0208	Bailer Blank After Sampling	23-Oct-99	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0021	Bailer Blank Before Sampling	22-Feb-00	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0030	Bailer Blank After Sampling	23-Feb-00	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0076	Bailer Blank Before Sampling	08-May-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0091	Bailer Blank Middle of Sampling	10-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0102	Bailer Blank After Sampling	12-May-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0194	Bailer Blank Before Sampling	07-Aug-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0201	Bailer Blank After Sampling	08-Aug-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0214	Bailer Blank Before Sampling	26-Oct-00	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0229	Bailer Blank Middle of Sampling	01-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0245	Bailer Blank After Sampling	06-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0477	EMP #3 Post Purge	22-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0452	EMP #3 Pre Purge Blank	19-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0179	EMP #3 Pump Blank Middle Sampl	12-May-98	30	20	6.5	1.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0468	EMP #3 Pump Blank Middle Sampl	21-Oct-98	2	3	2	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0062	EMP #3 Pump Blank Post Sample	24-Feb-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0192	EMP #3 Pump Blank Post Sample	14-May-98	3.0	3.4	1.4	2.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0224	EMP #3 Pump Blank Post Sample	01-Jun-98	<0.50	0.83	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0298	EMP #3 Pump Blank Post Sample	11-Aug-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0065	EMP #3 Pump Blank Pre Sample	24-Feb-98	<0.50	1.1	0.74	1.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0156	EMP #3 Pump Blank Pre Sample	11-May-98	6.7	1.7	<0.50	6.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0289	EMP #3 Pump Blank Pre Sample	10-Aug-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S99-0079	EMP #3 Pump Blank Before	23-Feb-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Chloride, mg/l	Sulfate, mg/l	pH Temperature °C	Bromide, mg/l	Fluoride, mg/l	Nitrate-N, mg/l	Nitrate as NO3, mg/l	Aluminum, mg/l	Arsenic, mg/l	Barium, mg/l	Boron, mg/l	Cadmium, mg/l	Calcium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l	Iron, mg/l	Lead, mg/l
S98-0290	Bailer Blank Pre Sample	10-Aug-98	4.45	5.08	30	<0.1	<2.0	18.8	<0.1	<0.10	<1.25	---	---	---	---	---	---	<0.25	---	---	---	---	---
S98-0178	Bailer Blank-Middle Sample	12-May-98	24	5.6	<20	<0.2	<1	---	<0.2	<0.1	<0.05	---	---	---	---	---	---	---	---	---	---	---	---
S98-0466	Bailer Blank-Middle Sample	21-Oct-98	16.9	7.34	<25	<0.1	<0.1	21.0	<0.2	<0.4	<0.05	---	---	---	---	<0.01	---	3.2	---	---	<0.0025	<0.05	---
S98-0061	Bailer Blank Post Sample	24-Feb-98	1	6.0	<20	<0.2	<1	---	<0.2	<0.1	<0.2	---	---	---	---	---	---	<1	---	---	---	---	---
S98-0191	Bailer Blank Post Sample	14-May-98	15	5.6	<20	<0.2	<1	---	<0.2	<0.1	<0.05	---	---	---	---	---	---	<1	---	---	---	---	---
S98-0225	Bailer Blank Post Sample	01-Jun-98	12	5.5	<20	<0.2	<1	---	<0.2	<0.1	0.09	---	---	---	---	---	---	<1	---	---	---	---	---
S98-0297	Bailer Blank Post Sample	11-Aug-98	3.83	5.16	31	<0.1	<2.0	19.9	<0.1	<0.10	<2.5	---	---	---	---	---	---	<0.25	---	---	---	---	---
S98-0478	Bailer Blank Post Sample	22-Oct-98	1.22	5.77	<25	<0.1	<0.1	21.2	<0.2	<0.4	<0.05	---	---	---	---	0.01	---	<0.25	---	---	<0.0025	<0.05	---
S99-0078	Bailer Blank Before	23-Feb-99	2.17	5.83	<25	<0.1	<0.1	14.3	<0.2	<0.4	0.09	---	---	---	---	---	---	<0.25	---	---	---	---	---
S99-0087	Bailer Blank After Sampling	23-Feb-99	1.35	5.78	<25	<0.1	<0.1	16.9	<0.2	<0.4	<0.05	---	---	---	---	---	---	<0.25	---	---	---	---	---
M99-0002	Bailer Blank Before Sampling	10-May-99	1.63	5.86	32	0.1	0.1	22.7	<0.2	<0.4	<0.05	---	---	---	---	<0.01	---	<0.25	---	---	<0.0025	<0.05	---
M99-0016	Bailer Blank Middle	12-May-99	1.21	---	<25	<0.1	---	---	---	---	---	---	---	---	---		---	---	---	---	---	---	---
M99-0029	Bailer Blank After Sampling	14-May-99	1.52	5.86	<25	<0.1	<0.1	24.6	<0.2	<0.4	<0.05	---	---	---	---	<0.01	---	<0.25	---	---	<0.0025	<0.05	---
M99-0085	Bailer Blank Before Sampling	09-Aug-99	898	7.57	565	88	190	19.1	0.5	1.6	<0.05		---	---	---	---	---	97	---	---	---	---	---
M99-0090	Bailer Blank After Sampling	11-Aug-99	580	8.41	266	48	1.0	21.0	<1	<0.4	0.74	---	---	---	---	---	---	0.68	---	---	---	---	---
M99-0182	Bailer Blank Before Sampling	18-Oct-99	4.00	6.04	<15	0.34	<0.5	20.2	<0.2	<0.4	0.064	---	<0.025	<0.005	<0.0025	<0.01	<0.002	0.39	<0.005	<0.005	<0.0025	0.060	<0.005
M99-0198	Bailer Blank Middle	22-Oct-99	4.00	6.04	<15	0.31	<0.5	20.2	<0.2	<0.4	0.072	---	<0.025	<0.005	<0.0025	<0.01	<0.002	0.32	<0.005	<0.005	<0.0025	<0.05	<0.005
M99-0208	Bailer Blank After Sampling	23-Oct-99	3.75	6.03	<15	0.32	<0.5	22.4	<0.2	<0.4	0.088	---	<0.025	<0.005	<0.0025	<0.01	<0.002	0.32	<0.005	<0.005	<0.0025	<0.05	<0.005
M00-0021	Bailer Blank Before Sampling	22-Feb-00	3	5.88	<15	<0.1	<0.1	15.9	<0.2	<0.4	<0.1	---	---	---	---	---	---	<0.5	---	---	---	---	---
M00-0030	Bailer Blank After Sampling	23-Feb-00	3	5.88	<15	<0.1	<0.1	17.3	<0.2	<0.4	<0.1	---	---	---	---	---	---	<0.5	---	---	---	---	---
M00-0076	Bailer Blank Before Sampling	08-May-00	4	5.52	21	<0.1	<0.1	21.3	<0.2	<0.4	<0.1	---	---	---	---	---	---	<0.5	---	---	---	---	---
M00-0091	Bailer Blank Middle of Sampling	10-May-00	2	---	19	<0.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0102	Bailer Blank After Sampling	12-May-00	41	7.13	42	6.1	1.4	18.5	<0.2	<0.4	<0.1	---	---	---	---	---	---	<0.5	---	---	---	---	---
M00-0194	Bailer Blank Before Sampling	07-Aug-00	8.0	6.15	<15	<0.1	<0.1	25.6	<0.2	<0.4	<0.05	---	---	---	---	---	---	<0.5	---	---	---	---	---
M00-0201	Bailer Blank After Sampling	08-Aug-00	4.0	5.63	<15	<0.1	<0.1	25.8	<0.2	<0.4	<0.05	---	---	---	---	---	---	<0.5	---	---	---	---	---
M00-0214	Bailer Blank Before Sampling	26-Oct-00	13	5.22	<15	3.3	<0.1	16.2	<0.2	<0.4	<0.1	---	---	<0.1	<0.005	0.12	<0.01	<0.5	<0.01	---	0.088	<0.1	<0.05
M00-0229	Bailer Blank Middle of Sampling	01-Nov-00	11.4	5.09	<15	3.3	<0.1	15.1	<0.2	<0.4	<0.1	---	---	<0.1	<0.005	0.14	<0.01	0.22	<0.01	---	0.093	0.19	<0.05
M00-0245	Bailer Blank After Sampling	06-Nov-00	13.40	5.3	55	3.3	<0.1	16.9	<0.2	<0.4	<0.1	---	---	<0.1	<0.005	0.13	<0.01	<0.5	<0.01	---	0.092	<0.1	<0.05
S98-0477	EMP #3 Post Purge	22-Oct-98	662	8.26	424	100	50	20.1	<5	1.6	<0.05	---	---	---	---	0.19	---	45	---	---	<0.0025	0.77	---
S98-0452	EMP #3 Pre Purge Blank	19-Oct-98	631	8.26	369	100	50	17.1	<2	1.6	<0.05	---	---	---	---	<0.01	---	<0.25	---	---	<0.0025	<0.05	---
S98-0179	EMP #3 Pump Blank Middle Sampl	12-May-98	720	7.9	390	87	57	---	<2	1.7	<0.05	---	---	---	---	---	---	50	---	---	---	---	---
S98-0468	EMP #3 Pump Blank Middle Sampl	21-Oct-98	649	8.23	373	110	48	19.8	2.0	1.5	<0.05	---	---	---	---	0.19	---	40	---	---	<0.0025	0.77	---
S98-0062	EMP #3 Pump Blank Post Sample	24-Feb-98	738	8.2	420	98	60	---	0.7	2	<0.2	---	---	---	---	---	---	51	---	---	---	---	---
S98-0192	EMP #3 Pump Blank Post Sample	14-May-98	670	8.1	400	88	57	---	0.63	1.8	0.05	---	---	---	---	---	---	48	---	---	---	---	---
S98-0224	EMP #3 Pump Blank Post Sample	01-Jun-98	690	8.0	420	91	53	---	0.64	1.7	<0.05	---	---	---	---	---	---	50	---	---	---	---	---
S98-0298	EMP #3 Pump Blank Post Sample	11-Aug-98	641	8.13	392	95	54	19.8	<5	1.8	<2.5	---	---	---	---	---	---	47	---	---	---	---	---
S98-0065	EMP #3 Pump Blank Pre Sample	24-Feb-98	746	8.2	432	99	62.2	---	0.7	1.9	<0.2	---	---	---	---	---	---	52	---	---	---	---	---
S98-0156	EMP #3 Pump Blank Pre Sample	11-May-98	970	7.7	630	98	200	---	<2	1.8	<0.05	---	---	---	---	---	---	91	---	---	---	---	---
S98-0289	EMP #3 Pump Blank Pre Sample	10-Aug-98	676	7.84	458	96	57	19.9	<2.5	1.9	<1.25	---	---	---	---	---	---	47Jm	---	---	---	---	---
S99-0079	EMP #3 Pump Blank Before	23-Feb-99	1170	8.44	681	210	42	14.1	<2	1.7	<0.05	---	---	---	---	---	---	52	---	---	---	---	---

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Magnesium, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium	Silica, mg/l	Silver, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as $CaCO_3$), mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Hydroxide, mg/l	Hardness (as $CaCO_3$), mg/l
S98-0290	Bailer Blank Pre Sample	10-Aug-98	<0.25	---	---	---	---	<0.25	---	<10	---	0.68	---	---	<25	<25	<25	<25	<1
S98-0178	Bailer Blank-Middle Sample	12-May-98	---	---	---	---	---	---	---	---	---	---	---	---	<5	<5	---	---	---
S98-0466	Bailer Blank-Middle Sample	21-Oct-98	<0.25	<0.0025	---	---	---	<1	---	<0.25	---	0.30	---	<0.05	<25	<25	<25	<25	7.9
S98-0061	Bailer Blank Post Sample	24-Feb-98	<1	---	---	---	---	<1	---	<0.05	---	<1	---	---	<5	---	---	---	---
S98-0191	Bailer Blank Post Sample	14-May-98	<1	---	---	---	---	<1	---	<0.05	---	<1	---	---	<5	<5	---	---	---
S98-0225	Bailer Blank Post Sample	01-Jun-98	<1	---	---	---	---	<1	---	0.16	---	---	---	---	<5	<5	---	---	---
S98-0297	Bailer Blank Post Sample	11-Aug-98	<0.25	---	---	---	---	<0.25	---	<10	---	<0.25	---	---	<25	<25	<25	<25	<1
S98-0478	Bailer Blank Post Sample	22-Oct-98	<0.25	<0.0025	---	---	---	<1	---	<0.25	---	<0.25	---	<0.05	<25	<25	<25	<25	<0.5
S99-0078	Bailer Blank Before	23-Feb-99	<0.25	---	---	---	---	<1	---	<1	---	0.27	---	---	<25	<25	<25	<25	<1
S99-0087	Bailer Blank After Sampling	23-Feb-99	<0.25	---	---	---	---	<1	---	<1	---	<0.25	---	---	<25	<25	<25	<25	<1
M99-0002	Bailer Blank Before Sampling	10-May-99	<0.25	<0.0025	---	---	---	<1	---	<0.2	---	<0.25	---	<0.05	<25	<25	<25	<25	<1
M99-0016	Bailer Blank Middle	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0029	Bailer Blank After Sampling	14-May-99	<0.25	<0.0025	---	---	---	<1	---	<0.2	---	0.41	---	<0.05	<25	<25	<25	<25	<1
M99-0085	Bailer Blank Before Sampling	09-Aug-99	22	---	---	---	---	5.2	---	21	---	80	---	---	110	110	<25	<25	330
M99-0090	Bailer Blank After Sampling	11-Aug-99	<0.25	---	---	---	---	1.4	---	10	---	140	---	---	220	220	2	<25	2.6
M99-0182	Bailer Blank Before Sampling	18-Oct-99	<0.25	<0.0025	<0.0002	<0.005	<0.02	<1	---	<1	<0.005	<0.25	<0.005	<0.05	<25	<25	<25	<25	<1
M99-0198	Bailer Blank Middle	22-Oct-99	<0.25	<0.0025	<0.0002	<0.005	<0.02	<1	---	<1	<0.005	<0.25	<0.005	<0.05	<25	<25	<25	<25	<1
M99-0208	Bailer Blank After Sampling	23-Oct-99	<0.25	<0.0025	<0.0002	<0.005	<0.02	<1	---	<1	<0.005	<0.25	<0.005	<0.05	<25	<25	<25	<25	<1
M00-0021	Bailer Blank Before Sampling	22-Feb-00	<0.5	---	---	---	---	<2	---	<1	---	<0.5	---	---	<25	<25	<25	<25	<2
M00-0030	Bailer Blank After Sampling	23-Feb-00	<0.5	---	---	---	---	<2	---	<1	---	<0.5	---	---	<25	<25	<25	<25	<2
M00-0076	Bailer Blank Before Sampling	08-May-00	<0.5	---	---	---	---	<2	---	<1	---	<0.5	---	---	<25	<25	<25	<25	<2
M00-0091	Bailer Blank Middle of Sampling	10-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0102	Bailer Blank After Sampling	12-May-00	<0.5	---	---	---	---	<2	---	<1	---	<0.5	---	---	<25	<25	<25	<25	<2
M00-0194	Bailer Blank Before Sampling	07-Aug-00	<0.5	---	---	---	---	<2	---	<1	---	<0.5	---	---	<25	<25	<25	<25	<2
M00-0201	Bailer Blank After Sampling	08-Aug-00	<0.5	---	---	---	---	<2	---	<1	---	<0.5	---	---	<25	<25	<25	<25	<2
M00-0214	Bailer Blank Before Sampling	26-Oct-00	<0.5	<0.005	<0.0002	---	---	<2	<0.1	1.3	<0.02	1.9	---	<0.1	<25	<25	<25	<25	<2
M00-0229	Bailer Blank Middle of Sampling	01-Nov-00	<0.5	<0.005	<0.0002	---	---	<2	<0.1	1.1	<0.02	2.3	---	<0.1	<25	<25	<25	<25	<2
M00-0245	Bailer Blank After Sampling	06-Nov-00	<0.5	<0.005	<0.0002	---	---	<2	<0.1	1.3	<0.02	2.4	---	<0.1	<25	<25	<25	<25	<2
S98-0477	EMP #3 Post Purge	22-Oct-98	13	0.050	---	---	---	4.0	---	15	---	75	---	<0.05	130	130	<25	<25	160
S98-0452	EMP #3 Pre Purge Blank	19-Oct-98	<0.25	<0.0025	---	---	---	<1	---	13	---	<0.25	---	<0.05	110	110	<25	<25	<1
S98-0179	EMP #3 Pump Blank Middle Sampl	12-May-98	13	---	---	---	---	4	---	18	---	75	---	---	150	150	---	---	---
S98-0468	EMP #3 Pump Blank Middle Sampl	21-Oct-98	12	0.047	---	---	---	4.0	---	14	---	95	---	<0.05	130	130	<25	<25	150
S98-0062	EMP #3 Pump Blank Post Sample	24-Feb-98	14	---	---	---	---	4	---	14	---	72	---	---	160	---	---	---	---
S98-0192	EMP #3 Pump Blank Post Sample	14-May-98	12	---	---	---	---	4	---	17	---	72	---	---	140	140	---	---	---
S98-0224	EMP #3 Pump Blank Post Sample	01-Jun-98	13	---	---	---	---	4	---	16	---	76	---	---	150	150	---	---	---
S98-0298	EMP #3 Pump Blank Post Sample	11-Aug-98	12	---	---	---	---	4.1	---	17	---	78	---	---	130	130	<25	<25	170
S98-0065	EMP #3 Pump Blank Pre Sample	24-Feb-98	14	---	---	---	---	4	---	13	---	75	---	---	161.8	---	---	---	---
S98-0156	EMP #3 Pump Blank Pre Sample	11-May-98	23	---	---	---	---	5	---	13	---	74	---	---	110	110	---	---	---
S98-0289	EMP #3 Pump Blank Pre Sample	10-Aug-98	12	---	---	---	---	4.2	---	19	---	79	---	---	140	140	<25	<25	170
S99-0079	EMP #3 Pump Blank Before	23-Feb-99	14	---	---	---	---	4.2	---	18	---	190	---	---	180	170	6	<25	180

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Benzene, µg/l	Toluene, µg/l	Ethylbenzene, µg/l	Total Xylene, µg/l	Gasoline Range Organics, mg/l	Acenaphthene, ug/l	Acenaphthylene, ug/l	Anthracene, ug/l	Benzo(a)anthracene, ug/l	Benzo(b)fluoranthene, ug/l	Benzo(k)fluoranthene, ug/l	Benzo(g,h,i)perylene, ug/l	Benzo(a)pyrene, ug/l	Chrysene, ug/l	Dibenzo(a,h)anthracene, ug/l	Fluoranthene, ug/l	Fluorene, ug/l	Indeno(1,2,3-cd)pyrene, ug/l	Naphthalene, ug/l	Phenanthrene, ug/l	Pyrene, ug/l
S99-0086	EMP #3 Pump Blank After	23-Feb-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0003	EMP #3 Before Purging Wells	10-May-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0015	EMP #3 Middle	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0028	EMP #3 After Purging	14-May-99	<2	3	<2	<2	<0.25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0084	EMP #3 Pump Blank Before	09-Aug-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0091	EMP #3 Pump Blank After	11-Aug-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0180	EMP #3 Before Purging Wells	18-Oct-99	14	31	2.0	4.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0200	EMP #3 Middle	22-Oct-99	2.6	7.7	2.6	4.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0207	EMP #3 After Purging	23-Oct-99	<2	7.4	2.6	4.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0020	EMP #3 Pump Blank Before Purgin	22-Feb-00	<2	<2	<2	7.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0029	EMP #3 After Purging Wells	23-Feb-00	<2	<2	<2	2.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0075	EMP #3 Before Purging Wells	08-May-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0090	EMP #3 Middle of Sampling	10-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0103	EMP #3 Pump Blank After Samplin	12-May-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0193	EMP #3 Before Purging Wells	07-Aug-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0202	EMP #3 Pump Blank After Purging	08-Aug-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0213	EMP #3 Before Purging Wells	26-Oct-00	<2	<2	<2	6.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0228	EMP #3 Middle of Sampling	01-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0244	EMP #3 After Purging Wells	06-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0064	Field Blank	24-Feb-98	<0.50	0.93	<0.50	2.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0171	Field Blank	12-May-98	<0.50	<0.50	<0.50	<1.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0223	Field Blank	01-Jun-98	17	100	<0.50	120	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0291	Field Blank	10-Aug-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S98-0480	Field Blank	22-Oct-98	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S99-0077	Field Blank	23-Feb-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0001	Field Blank	10-May-99	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0209	Field Blank	23-Oct-99	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0031	Field Blank	23-Feb-00	<2	<2	<2	<2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0104	Field Blank	12-May-00	<5	<5	<5	<10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0203	Field Blank	08-Aug-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0246	Field Blank	06-Nov-00	<2	<2	<2	<4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:

1. < : Denotes a sample value of less than the laboratory reporting limit.
2. Jm : Estimated value--possible matrix effect.
3. * : Method blank had detectable levels of this compound.
4. 1.2/<0.05 : NEL Lab result/Montgomery Watson Lab result.
5. P : Denotes sample was received with a pH greater than 2.

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Specific Conductance, umho/cm	pH, s.u.	Total Dissolved Solids, mg/L	Chloride, mg/l	Sulfate, mg/l	pH Temperature °C	Bromide, mg/l	Fluoride, mg/l	Nitrate-N, mg/l	Nitrate as NO3, mg/l	Aluminum, mg/l	Arsenic, mg/l	Barium, mg/l	Boron, mg/l	Cadmium, mg/l	Calcium, mg/l	Chromium, mg/l	Cobalt, mg/l	Copper, mg/l	Iron, mg/l	Lead, mg/l
S99-0086	EMP #3 Pump Blank After	23-Feb-99	1610	8.66	981	350	45	13.5	<2	1.8	<0.05	---	---	---	---	---	---	51	---	---	---	---	---
M99-0003	EMP #3 Before Purging Wells	10-May-99	1120	7.86	646	210	51	22.3	0.6	1.5	<0.05	---	---	---	---	0.22	---	50	---	---	<0.0025	0.45	---
M99-0015	EMP #3 Middle	12-May-99	609	---	379	73	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0028	EMP #3 After Purging	14-May-99	599	8.27	356	66	53	24.0	0.5	1.8	<0.05	---	---	---	---	0.21	---	44	---	---	0.0060	0.76	---
M99-0084	EMP #3 Pump Blank Before	09-Aug-99	578	8.30	305	49	1.1	20.1	<0.2	<0.4	0.70	---	---	---	---	---	---	0.79	---	---	---	---	---
M99-0091	EMP #3 Pump Blank After	11-Aug-99	588	8.32	305	70	53	22.1	2.1	1.7	<0.05	---	---	---	---	---	---	45	---	---	---	---	---
M99-0180	EMP #3 Before Purging Wells	18-Oct-99	1070	7.37	673	140	200	20.7	0.65	1.7	0.29	---	0.043	0.0076	0.053	0.22	<0.002	88	<0.005	<0.005	0.0035	0.69	<0.005
M99-0200	EMP #3 Middle	22-Oct-99	624	8.22	397	110	50	19.4	0.60	1.6	<0.05	---	0.033	0.0066	0.075	0.20	<0.002	44	<0.005	<0.005	<0.0025	0.72	<0.005
M99-0207	EMP #3 After Purging	23-Oct-99	640	8.29	367	96	50	21.4	0.58	1.6	<0.05	---	0.059	0.0062	0.092	0.20	<0.002	50	<0.005	<0.005	<0.0025	0.89	<0.005
M00-0020	EMP #3 Pump Blank Before Purgin	22-Feb-00	683	6.60	490	86	54	16.6	<1	1.8	<0.5	---	---	---	---	---	---	47	---	---	---	---	---
M00-0029	EMP #3 After Purging Wells	23-Feb-00	681	6.99	460	82	52	17.0	0.63	1.8	<0.5	---	---	---	---	---	---	46	---	---	---	---	---
M00-0075	EMP #3 Before Purging Wells	08-May-00	653	7.16	482	83	51	21.8	0.46	1.7	<1	---	---	---	---	---	---	46	---	---	---	---	---
M00-0090	EMP #3 Middle of Sampling	10-May-00	648	---	373	98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0103	EMP #3 Pump Blank After Samplin	12-May-00	670	8.22	405	91	52	18.5	0.54	1.6	<0.1	---	---	---	---	---	---	49	---	---	---	---	---
M00-0193	EMP #3 Before Purging Wells	07-Aug-00	552	7.49	369	81	38	25.8	0.29	1.1	<0.05	---	---	---	---	---	---	30	---	---	---	---	---
M00-0202	EMP #3 Pump Blank After Purging	08-Aug-00	600	8.18	317	58	45	25.9	0.50	1.7	0.21	---	---	---	---	---	---	44	---	---	---	---	---
M00-0213	EMP #3 Before Purging Wells	26-Oct-00	3,030	7.11	1,920	1,300	80	14.5	<2	1.7	<1	---	---	<0.1	0.13	0.23	<0.01	62	<0.01	---	0.0055	2.9	<0.05
M00-0228	EMP #3 Middle of Sampling	01-Nov-00	9,200	8.03	6,080	3,300	240	14.4	<2	1.9	<1	---	---	<0.1	0.25	0.31	<0.01	120	<0.01	---	0.0061	3.0	<0.05
M00-0244	EMP #3 After Purging Wells	06-Nov-00	4,400	8.1	3,500	2,100	150	16.7	<4	1.9	<2	---	---	<0.1	0.14	0.28	<0.01	72	<0.01	---	<0.005	1.2	<0.05
S98-0064	Field Blank	24-Feb-98	2	5.8	<20	<0.2	<1	---	<0.2	<0.1	<0.2	---	---	---	---	---	---	<1	---	---	---	---	---
S98-0171	Field Blank	12-May-98	54	5.7	<20	<0.2	<1	---	<0.2	<0.1	<0.05	---	---	---	---	---	---	<1	---	---	---	---	---
S98-0223	Field Blank	01-Jun-98	3.2	6.0	<20	0.33	<1	---	<0.2	<0.1	<0.05	---	---	---	---	---	---	<1	---	---	---	---	---
S98-0291	Field Blank	10-Aug-98	20.7	9.56	31	<0.1	<2.0	19.3	<0.1	<0.10	<1.25	---	---	---	---	---	---	3.6	---	---	---	---	---
S98-0480	Field Blank	22-Oct-98	1.23	5.67	59	<0.1	<0.1	21.8	<0.2	<0.4	<0.05	---	---	---	---	0.016	---	<0.25	---	---	<0.0025	<0.05	---
S99-0077	Field Blank	23-Feb-99	2.46	5.35	<25	<0.1	<0.1	14.8	<0.2	<0.4	<0.05	---	---	---	---	---	---	<0.25	---	---	---	---	---
M99-0001	Field Blank	10-May-99	1.32	6.18	41	<0.1	<0.1	21.5	<0.2	<0.4	<0.05	---	---	---	---	<0.01	---	<0.25	---	---	<0.0025	<0.05	---
M99-0209	Field Blank	23-Oct-99	3.70	5.94	<15	0.32	<0.5	21.7	<0.2	<0.4	0.080	---	<0.025	<0.005	<0.0025	<0.01	<0.002	0.33	<0.005	<0.005	<0.0025	<0.05	0.0062
M00-0031	Field Blank	23-Feb-00	1	6.04	<15	<0.1	<0.1	17.4	<0.2	<0.4	<0.1	---	---	---	---	---	---	<0.5	---	---	---	---	---
M00-0104	Field Blank	12-May-00	6	5.47	17	<0.1	<0.1	18.6	<0.2	<0.4	<0.1	---	---	---	---	---	---	<0.5	---	---	---	---	---
M00-0203	Field Blank	08-Aug-00	2.0	6.20	<15	<0.1	<0.1	25.8	<0.2	<0.4	<0.05	---	---	---	---	---	---	<0.5	---	---	---	---	---
M00-0246	Field Blank	06-Nov-00	11.0	5.4	<15	3.3	<0.1	17.2	<0.2	<0.4	<0.1	---	---	<0.1	<0.005	0.12	<0.01	<0.5	<0.01	---	0.10	<0.1	<0.05

Notes:

1. < : Denotes a sample value of less than the laboratory reporting limit.
2. Jm : Estimated value--possible matrix effect.
3. * : Method blank had detectable levels of this compound.
4. 1.2/<0.05 : NEL Lab result/Montgomery Watson Lab result.
5. P : Denotes sample was received with a pH greater than 2.

Table 2: SUMMARY OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES, JAL #4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

LABORATORY SAMPLE NUMBER	SAMPLE DESCRIPTION	Sample Date	Magnesium, mg/l	Manganese, mg/l	Mercury, mg/l	Molybdenum, mg/l	Nickel, mg/l	Potassium, mg/l	Selenium	Silica, mg/l	Silver, mg/l	Sodium, mg/l	Uranium, mg/l	Zinc, mg/l	Alkalinity (as $CaCO_3$), mg/l	Alkalinity - Bicarbonate, mg/l	Alkalinity - Carbonate, mg/l	Alkalinity - Hydroxide, mg/l	Hardness (as $CaCO_3$), mg/l
S99-0086	EMP #3 Pump Blank After	23-Feb-99	14	---	---	---	---	4.7	---	18	---	270	---	---	180	160	16	<25	190
M99-0003	EMP #3 Before Purging Wells	10-May-99	14	0.040	---	---	---	4.3	---	22	---	170	---	0.15	160	160	<25	<25	180
M99-0015	EMP #3 Middle	12-May-99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M99-0028	EMP #3 After Purging	14-May-99	11	0.054	---	---	---	4.2	---	19	---	65	---	<0.05	150	150	<25	<25	150
M99-0084	EMP #3 Pump Blank Before	09-Aug-99	<0.25	---	---	---	---	<1	---	11	---	140	---	---	220	220	2	<25	2.8
M99-0091	EMP #3 Pump Blank After	11-Aug-99	11	---	---	---	---	3.9	---	18	---	77	---	---	130	130	<25	<25	160
M99-0180	EMP #3 Before Purging Wells	18-Oct-99	21	0.051	<0.0002	0.0062	<0.02	5.6	---	25	<0.005	92	<0.005	0.11	96	96	<25	<25	310
M99-0200	EMP #3 Middle	22-Oct-99	12	0.051	<0.0002	0.0069	<0.02	4.3	---	17	<0.005	80	<0.005	<0.05	120	120	<25	<25	160
M99-0207	EMP #3 After Purging	23-Oct-99	13	0.058	<0.0002	0.0083	<0.02	4.4	---	20	<0.005	80	<0.005	<0.05	130	130	<25	<25	180
M00-0020	EMP #3 Pump Blank Before Purgin	22-Feb-00	12	---	---	---	---	5.0	---	19	---	74	---	---	87	87	<25	<25	170
M00-0029	EMP #3 After Purging Wells	23-Feb-00	12	---	---	---	---	5.2	---	13	---	76	---	---	95	95	<25	<25	160
M00-0075	EMP #3 Before Purging Wells	08-May-00	12	---	---	---	---	4.7	---	25	---	73	---	---	130	130	<25	<25	160
M00-0090	EMP #3 Middle of Sampling	10-May-00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
M00-0103	EMP #3 Pump Blank After Samplin	12-May-00	13	---	---	---	---	4.4	---	22	---	72	---	---	150	150	<25	<25	170
M00-0193	EMP #3 Before Purging Wells	07-Aug-00	9.5	---	---	---	---	3.1	---	21	---	78	---	---	140	140	<25	<25	110
M00-0202	EMP #3 Pump Blank After Purging	08-Aug-00	12	---	---	---	---	4.1	---	21	---	72	---	---	130	130	<25	<25	150
M00-0213	EMP #3 Before Purging Wells	26-Oct-00	20	0.13	<0.0002	---	---	19	<0.1	26	<0.02	540	---	<0.1	140	140	<25	<25	240
M00-0228	EMP #3 Middle of Sampling	01-Nov-00	45	0.29	<0.0002	---	---	65	<0.1	19	<0.02	800	---	<0.1	140	140	<25	<25	480
M00-0244	EMP #3 After Purging Wells	06-Nov-00	27	0.15	<0.0002	---	---	40	<0.1	23	<0.02	600	---	<0.1	150	150	<25	<25	290
S98-0064	Field Blank	24-Feb-98	<1	---	---	---	---	<1	---	<0.05	---	<1	---	---	<5	---	---	---	---
S98-0171	Field Blank	12-May-98	<1	---	---	---	---	<1	---	<0.05	---	<1	---	---	<5	<5	---	---	---
S98-0223	Field Blank	01-Jun-98	<1	---	---	---	---	<1	---	<0.05	---	<1	---	---	<5	<5	---	---	---
S98-0291	Field Blank	10-Aug-98	<0.25	---	---	---	---	<0.25	---	<10	---	<0.25	---	---	<25	<25	<25	<25	9.0
S98-0480	Field Blank	22-Oct-98	<0.25	<0.0025	---	---	---	<1	---	<0.25	---	<0.25	---	<0.05	<25	<25	<25	<25	<0.5
S99-0077	Field Blank	23-Feb-99	<0.25	---	---	---	---	<1	---	<1	---	<0.25	---	---	<25	<25	<25	<25	<1
M99-0001	Field Blank	10-May-99	<0.25	<0.0025	---	---	---	<1	---	<0.2	---	<0.25	---	<0.05	<25	<25	<25	<25	<1
M99-0209	Field Blank	23-Oct-99	<0.25	<0.0025	<0.0002	<0.005	<0.02	<1	---	<1	<0.005	<0.25	<0.005	<0.05	<25	<25	<25	<25	<1
M00-0031	Field Blank	23-Feb-00	<0.5	---	---	---	---	<2.	---	<1	---	<0.5	---	---	<25	<25	<25	<25	<2
M00-0104	Field Blank	12-May-00	<0.5	---	---	---	---	<2	---	<1	---	<0.5	---	---	<25	<25	<25	<25	<2
M00-0203	Field Blank	08-Aug-00	<0.5	---	---	---	---	<2	---	<1	---	<0.5	---	---	<25	<25	<25	<25	<2
M00-0246	Field Blank	06-Nov-00	<0.5	<0.005	<0.0002	---	---	<2	<0.1	1.2	<0.02	1.5	---	<0.1	<25	<25	<25	<25	<2

Notes:

1. < : Denotes a sample value of less than the laboratory reporting limit.
2. Jm : Estimated value--possible matrix effect.
3. * : Method blank had detectable levels of this compound.
4. 1.2/<0.05 : NEL Lab result/Montgomery Watson Lab result.
5. P : Denotes sample was received with a pH greater than 2.

TABLE 3: SUMMARY OF GROUNDWATER RECOVERY/DISPOSAL VOLUMES, JAL NO. 4 PLANT, EL PASO CORPORATION, LEA COUNTY, NEW MEXICO

Month	CP-37 thru CP-42 Comb-S (RW1)			CP-37 thru CP-42 Comb-S (RW2)		
	Meter Readings		Difference (gallons)	Meter Readings		Difference (gallons)
	Present	Previous		Present	Previous	
	1999 Annual Subtotal		**319,280**	**1999 Annual Subtotal**		**0**
Jan-00	433,650	319,280	114,370	159,650	0	159,650
Feb-00	433,650	433,650	0	429,320	159,650	269,670
Mar-00	472,140	433,650	38,490	608,920	429,320	179,600
Apr-00	724,480	472,140	252,340	889,340	608,920	280,420
May-00	1,063,690	724,480	339,210	1,356,030	889,340	466,690
Jun-00	1,328,830	1,063,690	265,140	1,721,820	1,356,030	365,790
Jul-00	1,556,340	1,328,830	227,510	2,023,570	1,721,820	301,750
Aug-00 (1)	1,656,180	1,556,340	99,840	2,368,940	2,023,570	345,370
Sep-00	1,656,180	1,656,180	0	2,725,930	2,368,940	356,990
Oct-00 (2)	1,809,960	1,656,180	153,780	3,209,013	2,725,930	483,083
Nov-00	1,809,960	1,809,960	0	3,684,365	3,209,013	475,352
Dec-00	1,809,960	1,809,960	0	3,967,385	3,684,365	283,020
	2000 Annual Subtotal		**1,490,680**	**2000 Annual Subtotal**		**3,967,385**
				2000 Annual Total		**5,458,065**

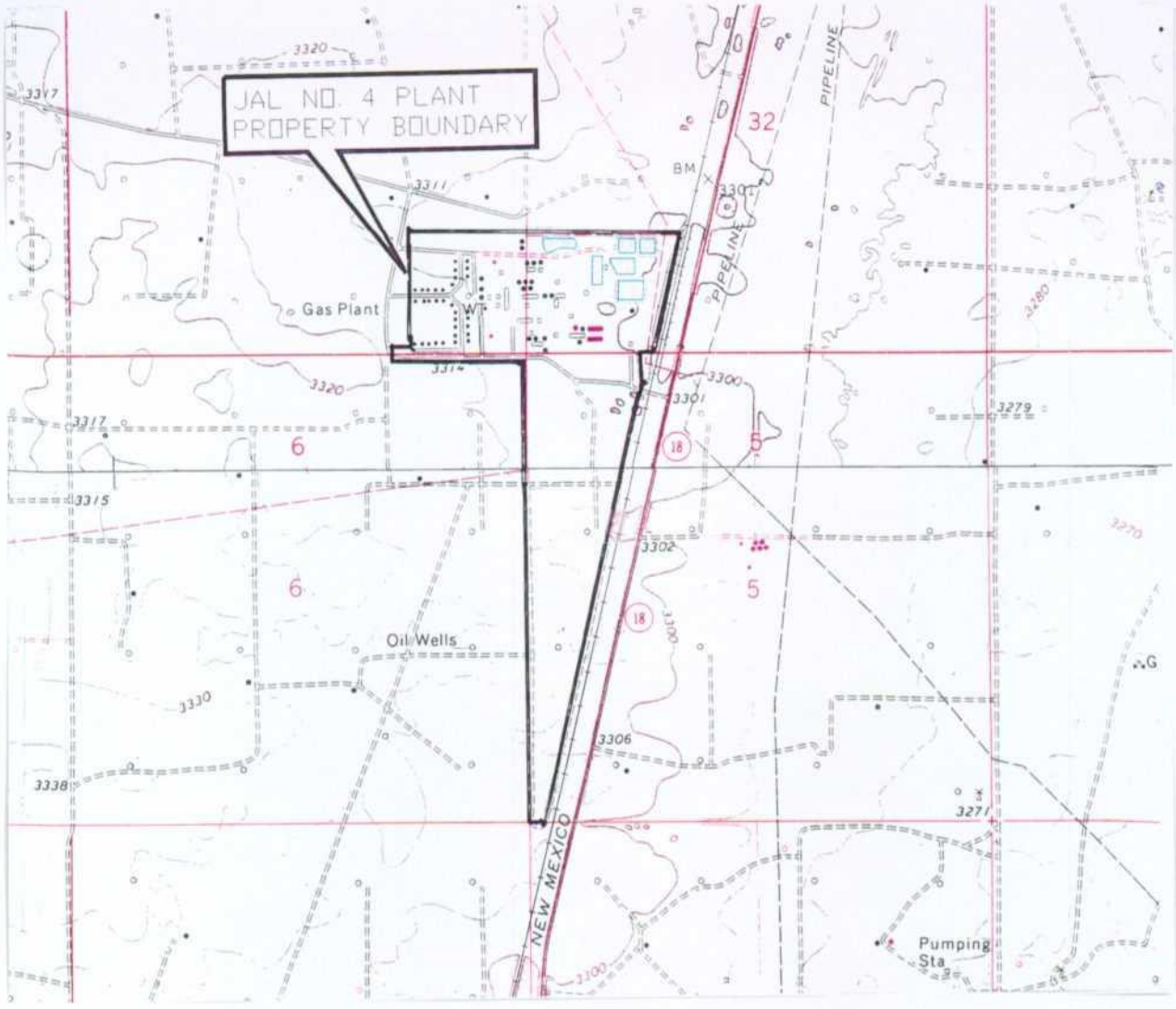
Notes:

(1) Due to screen fouling and associated pump failure, groundwater recovery from recovery well RW-1 ceased in August of 2000.

(2) In October of 2000, EPC conducted a pump test in monitor well ENSR-2. This pump test was conducted to determine if this well was suitable for conversion into a recovery well to replace recovery well RW-1. A total of 153,780 gallons of groundwater were recovered during this pump test.

(3) Well designations CP-37 through CP-42 combined - S(RW-1) and (RW-2) denote permit file numbers issued by the New Mexico State Engineer's Office on June 24, 1997.

R 37 E



T 23 S

T 24 S

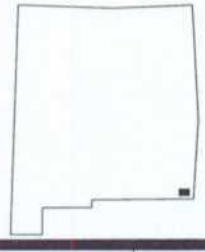
AFTER U.S.G.S. 7.5 MIN. TOPO. QUAD., RATTLESNAKE CANYON, N.M., 1979, AND JAL NW, N.M., 1979

N

SCALE

0 1/2 1 MILE

NEW MEXICO

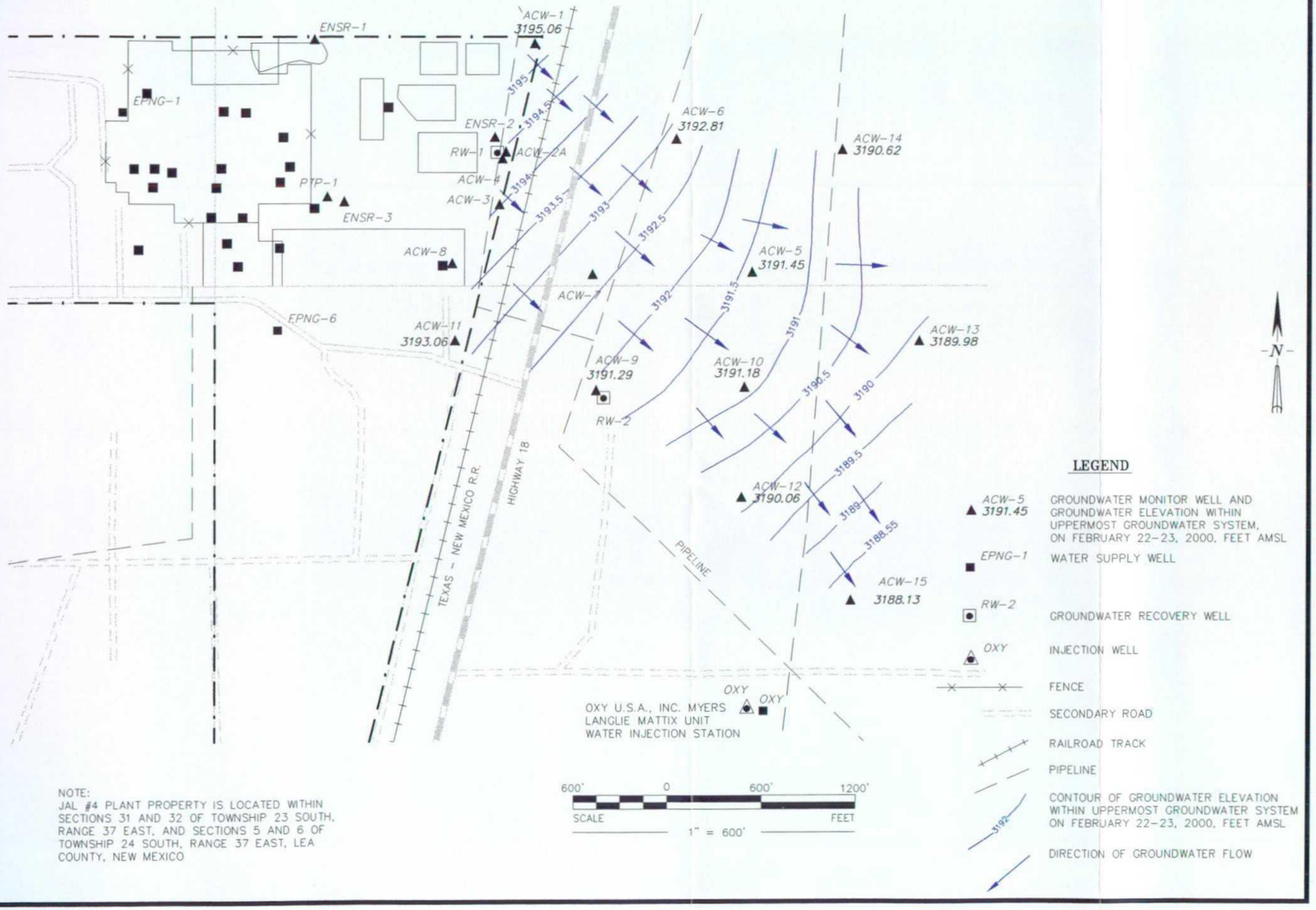


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FIGURE TITLE	SITE LOCATION AND TOPOGRAPIC FEATURES
DOCUMENT TITLE	2000 ANNUAL GROUNDWATER REMEDIATION REPORT
CLIENT	EL PASO CORPORATION
LOCATION	JAL #4 PLANT LEA COUNTY, NEW MEXICO

DATE	1/15/01
SCALE	AS SHOWN
DESIGNED BY	BEM
APPROVED BY	BEM
DRAWN BY	MKA
PROJECT NUMBER	9717101
FIGURE NUMBER	1

H:\1997\97171\CAD\97171F01-2000.DWG on Feb 13, 2001-3:02pm



NOTE:
JAL #4 PLANT PROPERTY IS LOCATED WITHIN SECTIONS 31 AND 32 OF TOWNSHIP 23 SOUTH, RANGE 37 EAST, AND SECTIONS 5 AND 6 OF TOWNSHIP 24 SOUTH, RANGE 37 EAST, LEA COUNTY, NEW MEXICO

LEGEND

ACW-5 3191.45	GROUNDWATER MONITOR WELL AND GROUNDWATER ELEVATION WITHIN UPPERMOST GROUNDWATER SYSTEM, ON FEBRUARY 22-23, 2000, FEET AMSL
EPNG-1	WATER SUPPLY WELL
RW-2	GROUNDWATER RECOVERY WELL
OXY	INJECTION WELL
	FENCE
	SECONDARY ROAD
	RAILROAD TRACK
	PIPELINE
3192	CONTOUR OF GROUNDWATER ELEVATION WITHIN UPPERMOST GROUNDWATER SYSTEM ON FEBRUARY 22-23, 2000, FEET AMSL
	DIRECTION OF GROUNDWATER FLOW

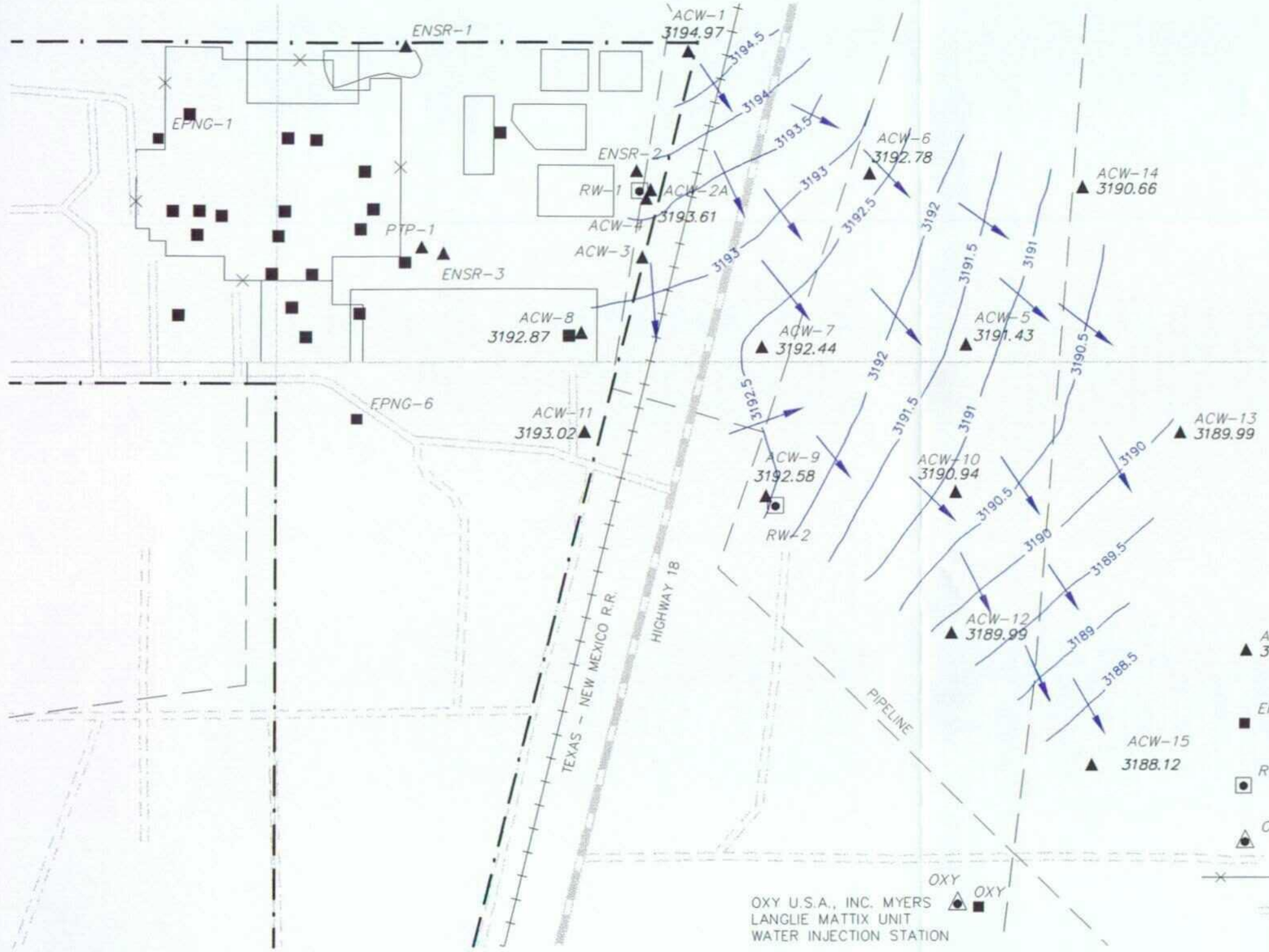
FIGURE TITLE	GROUNDWATER POTENTIOMETRIC SURFACE OF UPPERMOST GROUNDWATER SYSTEM ON FEBRUARY 22-23, 2000
DOCUMENT TITLE	2000 ANNUAL GROUNDWATER REMEDIATION REPORT
CLIENT	EL PASO CORPORATION
LOCATION	JAL #4 PLANT LEA COUNTY, NEW MEXICO

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DATE	1/15/01
SCALE	1" = 600'
DESIGNED BY	BEM
APPROVED BY	GHR
DRAWN BY	MKA

PROJECT NUMBER
9717101
FIGURE NUMBER
2

H:\1997\97171\CAD\97171M18.DWG on Feb 13, 2001-11:29am



NOTE:
JAL #4 PLANT PROPERTY IS LOCATED WITHIN SECTIONS 31 AND 32 OF TOWNSHIP 23 SOUTH, RANGE 37 EAST, AND SECTIONS 5 AND 6 OF TOWNSHIP 24 SOUTH, RANGE 37 EAST, LEA COUNTY, NEW MEXICO

LEGEND

ACW-5 3191.43	GROUNDWATER MONITOR WELL AND GROUNDWATER ELEVATION WITHIN UPPERMOST GROUNDWATER SYSTEM, ON MAY 8-12, 2000, FEET AMSL
EPNG-1	WATER SUPPLY WELL
RW-2	GROUNDWATER RECOVERY WELL
OXY	INJECTION WELL
	FENCE
	SECONDARY ROAD
	RAILROAD TRACK
	PIPELINE
3192	CONTOUR OF GROUNDWATER ELEVATION WITHIN UPPERMOST GROUNDWATER SYSTEM ON MAY 8-12, 2000, FEET AMSL
	DIRECTION OF GROUNDWATER FLOW

FIGURE TITLE: **GROUNDWATER POTENTIOMETRIC SURFACE OF UPPERMOST GROUNDWATER SYSTEM ON MAY 8-12, 2000**

DOCUMENT TITLE: 2000 ANNUAL GROUNDWATER REMEDIATION REPORT

CLIENT: EL PASO CORPORATION

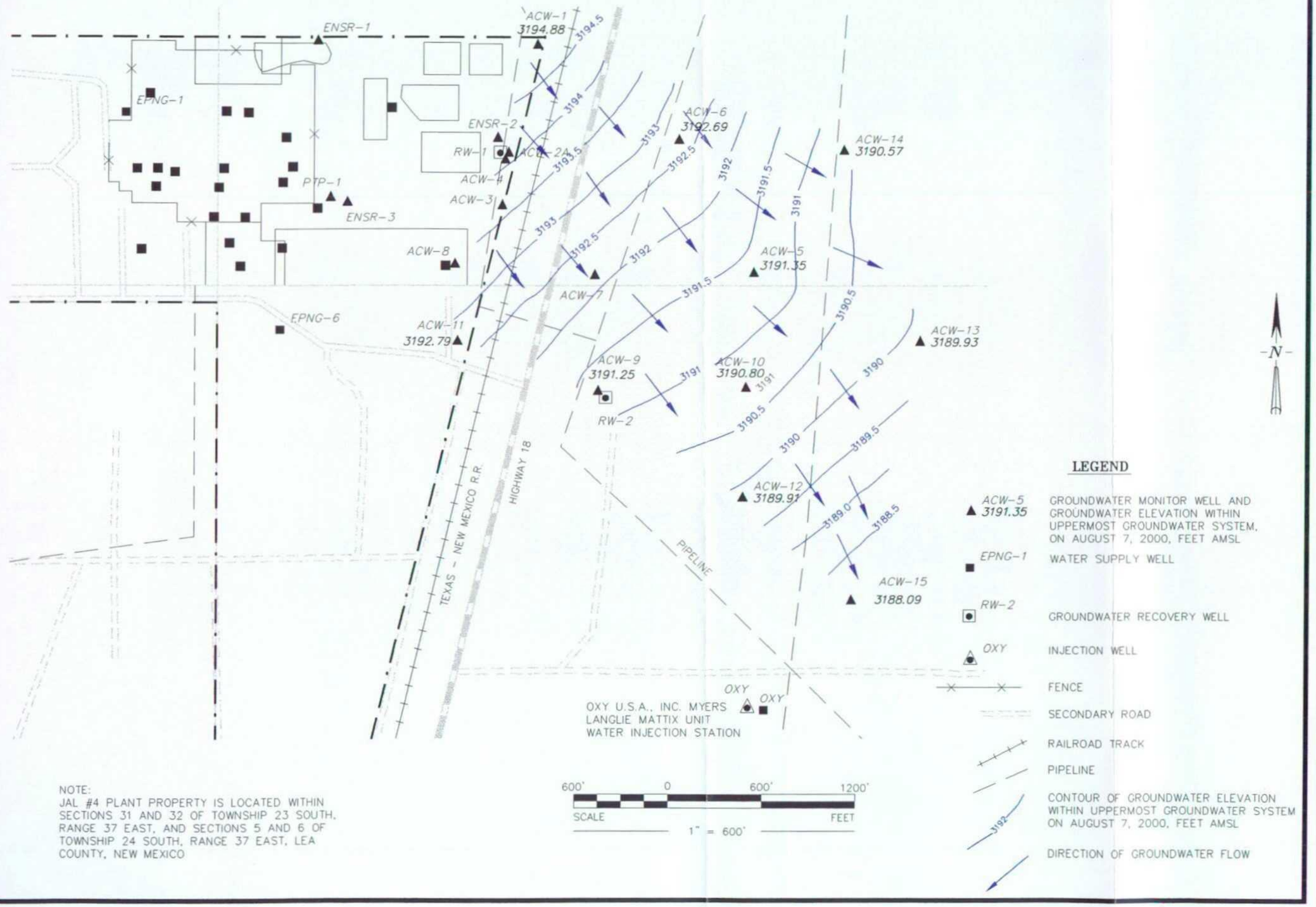
LOCATION: JAL #4 PLANT
LEA COUNTY, NEW MEXICO

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DATE	1/15/01
SCALE	1" = 600'
DESIGNED BY	BEM
APPROVED BY	GHR
DRAWN BY	MKA

PROJECT NUMBER
9717101
FIGURE NUMBER
3

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LEGEND

- ACW-5 ▲ 3191.35 — GROUNDWATER MONITOR WELL AND GROUNDWATER ELEVATION WITHIN UPPERMOST GROUNDWATER SYSTEM, ON AUGUST 7, 2000, FEET AMSL
- EPNG-1 ■ — WATER SUPPLY WELL
- RW-2 ◉ — GROUNDWATER RECOVERY WELL
- OXY ◬ — INJECTION WELL
- FENCE
- SECONDARY ROAD
- RAILROAD TRACK
- PIPELINE
- 3192 — CONTOUR OF GROUNDWATER ELEVATION WITHIN UPPERMOST GROUNDWATER SYSTEM ON AUGUST 7, 2000, FEET AMSL
- DIRECTION OF GROUNDWATER FLOW

NOTE:
JAL #4 PLANT PROPERTY IS LOCATED WITHIN SECTIONS 31 AND 32 OF TOWNSHIP 23 SOUTH, RANGE 37 EAST, AND SECTIONS 5 AND 6 OF TOWNSHIP 24 SOUTH, RANGE 37 EAST, LEA COUNTY, NEW MEXICO

FIGURE TITLE	GROUNDWATER POTENTIOMETRIC SURFACE OF UPPERMOST GROUNDWATER SYSTEM ON AUGUST 7, 2000
DOCUMENT TITLE	2000 ANNUAL GROUNDWATER REMEDIATION REPORT
CLIENT	EL PASO CORPORATION
LOCATION	JAL #4 PLANT LEA COUNTY, NEW MEXICO

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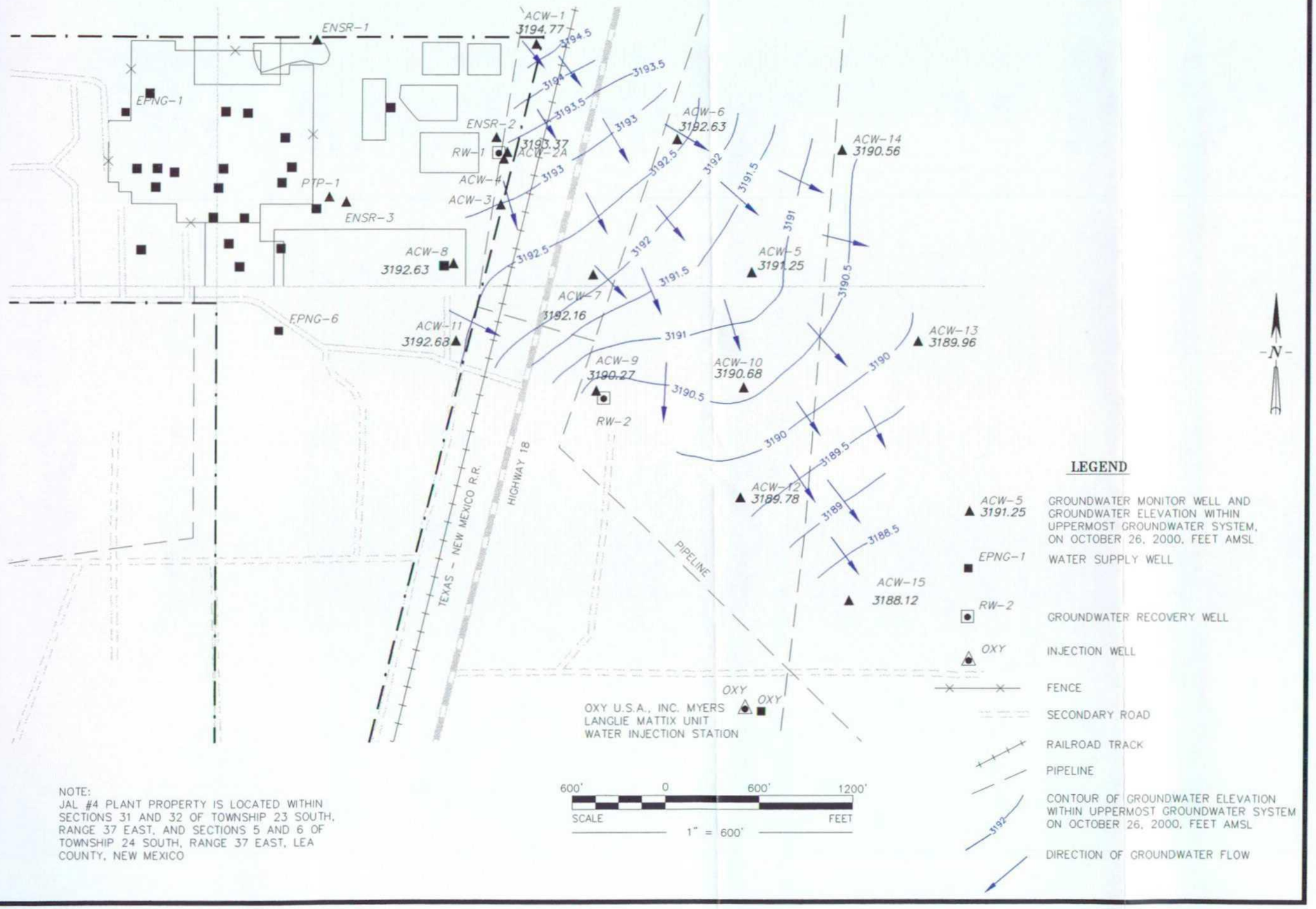
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DATE	1/15/01
SCALE	1" = 600'
DESIGNED BY	BEM
APPROVED BY	GHR
DRAWN BY	MKA

PROJECT NUMBER
9717101 M20
FIGURE NUMBER
4

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NOTE:
JAL #4 PLANT PROPERTY IS LOCATED WITHIN SECTIONS 31 AND 32 OF TOWNSHIP 23 SOUTH, RANGE 37 EAST, AND SECTIONS 5 AND 6 OF TOWNSHIP 24 SOUTH, RANGE 37 EAST, LEA COUNTY, NEW MEXICO

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FIGURE TITLE	GROUNDWATER POTENTIOMETRIC SURFACE OF UPPERMOST GROUNDWATER SYSTEM ON OCTOBER 26, 2000
DOCUMENT TITLE	2000 ANNUAL GROUNDWATER REMEDIATION REPORT
CLIENT	EL PASO CORPORATION
LOCATION	JAL #4 PLANT LEA COUNTY, NEW MEXICO

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DATE	1/15/01
SCALE	1" = 600'
DESIGNED BY	BEM
APPROVED BY	GHR
DRAWN BY	MKA

PROJECT NUMBER
9717101 M21
FIGURE NUMBER
5

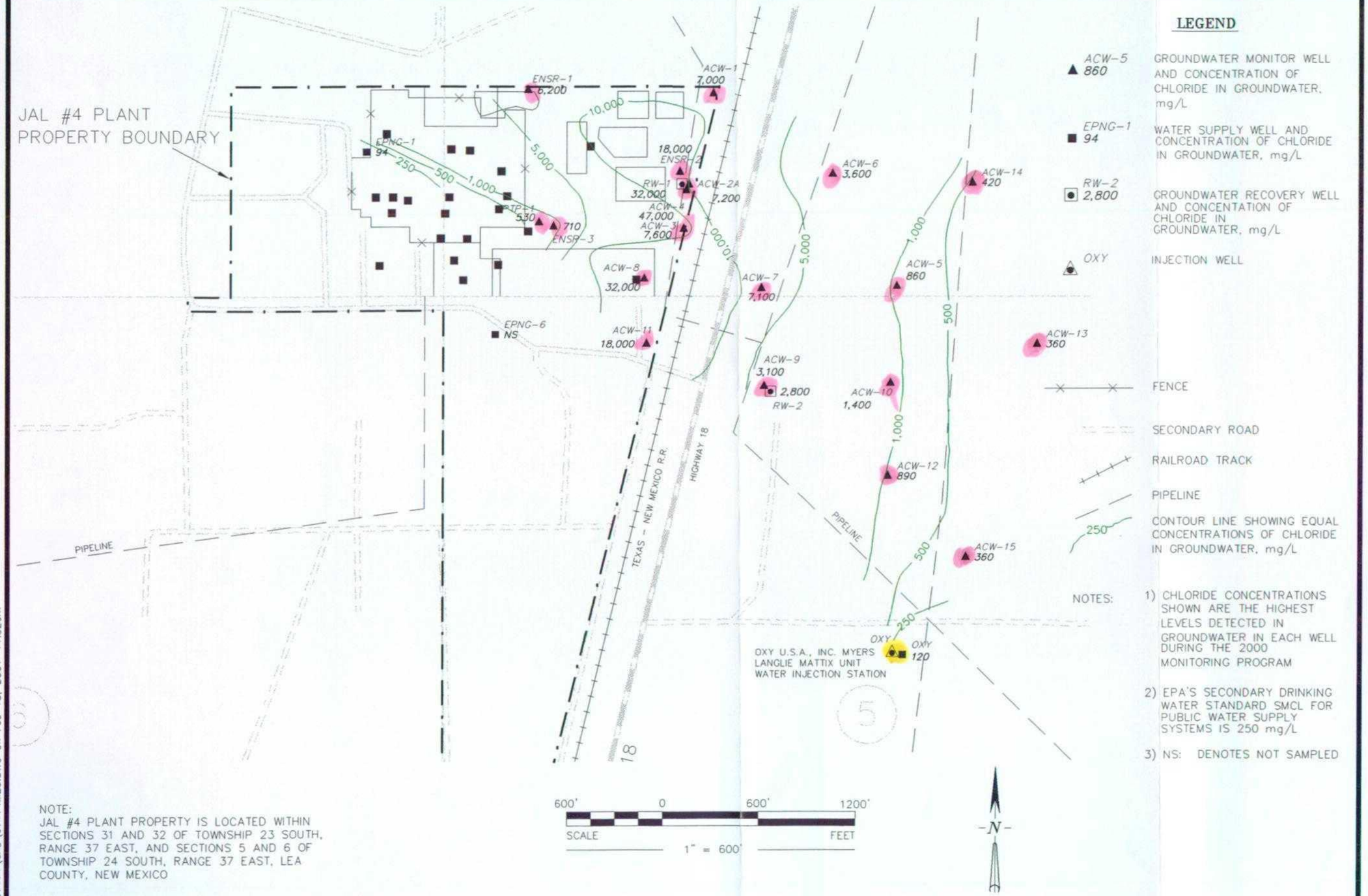


FIGURE TITLE	ISOPLETH OF CHLORIDE CONCENTRATIONS IN GOUNDWATER IN 2000
DOCUMENT TITLE	2000 ANNUAL GROUNDWATER REMEDIATION REPORT
CLIENT	EL PASO CORPORATION
LOCATION	JAL #4 PLANT LEA COUNTY, NEW MEXICO

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DATE	1/18/01
SCALE	1" = 800'
DESIGNED BY	BEM
APPROVED BY	BEM
DRAWN BY	MKA

PROJECT NUMBER
9717101 M23
FIGURE NUMBER
6

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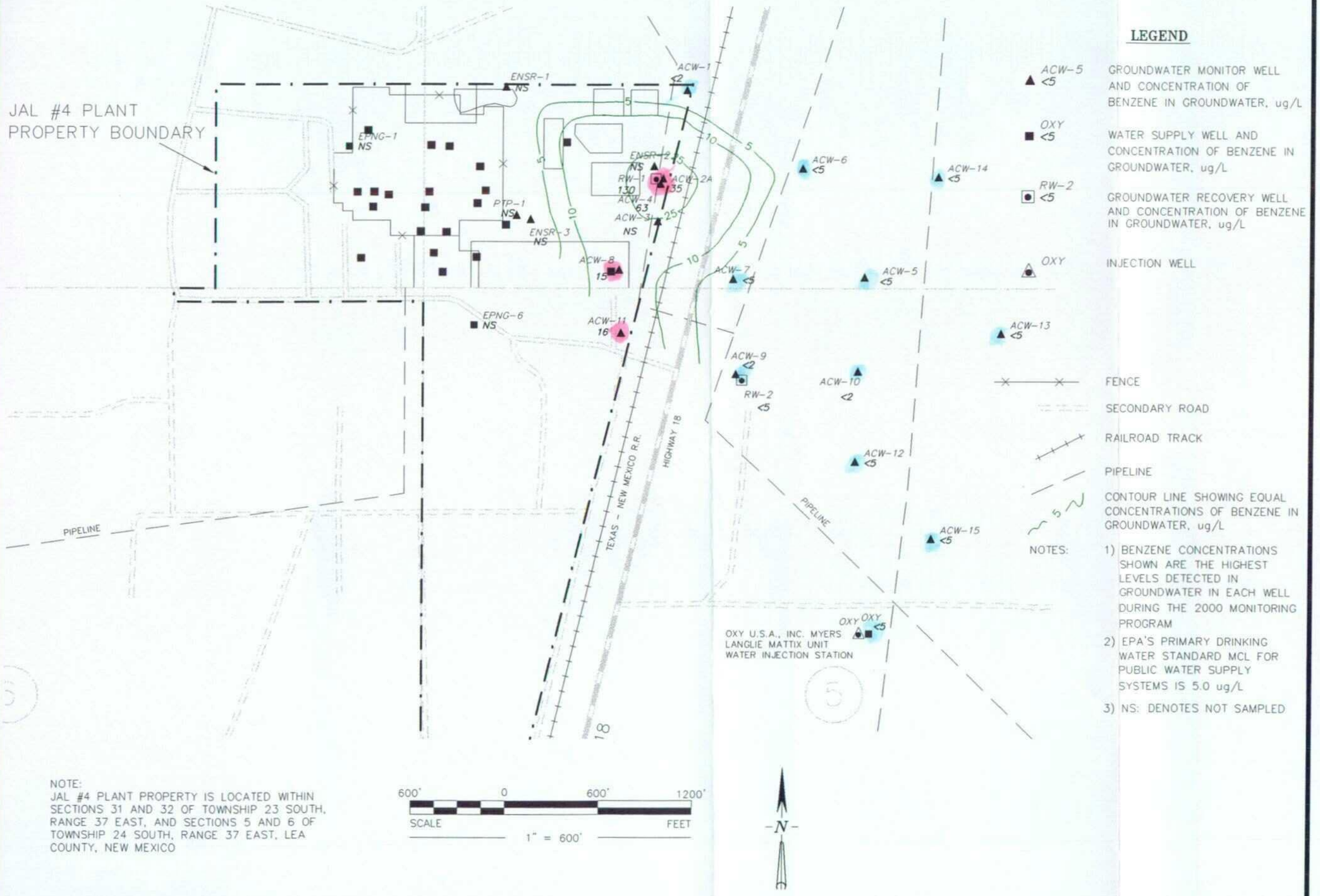


FIGURE TITLE: **ISOPLETH OF BENZENE CONCENTRATIONS IN GROUNDWATER IN 2000**

DOCUMENT TITLE: 2000 ANNUAL GROUNDWATER REMEDIATION REPORT

CLIENT: EL PASO CORPORATION

LOCATION: JAL #4 PLANT
LEA COUNTY, NEW MEXICO

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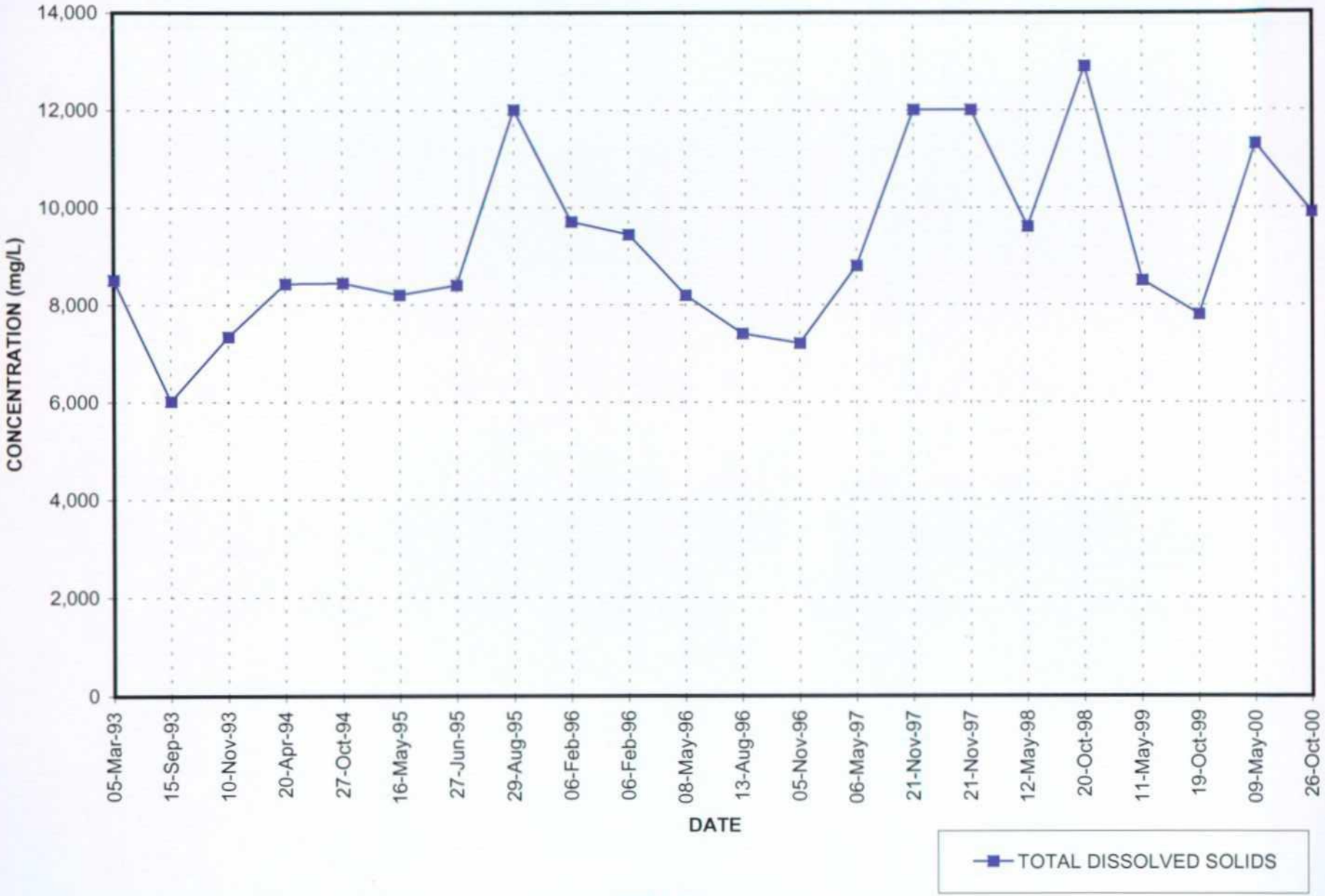
DATE	1/18/01
SCALE	1" = 600'
DESIGNED BY	BEM
APPROVED BY	BEM
DRAWN BY	MKA

PROJECT NUMBER
9717101 M22
FIGURE NUMBER
7

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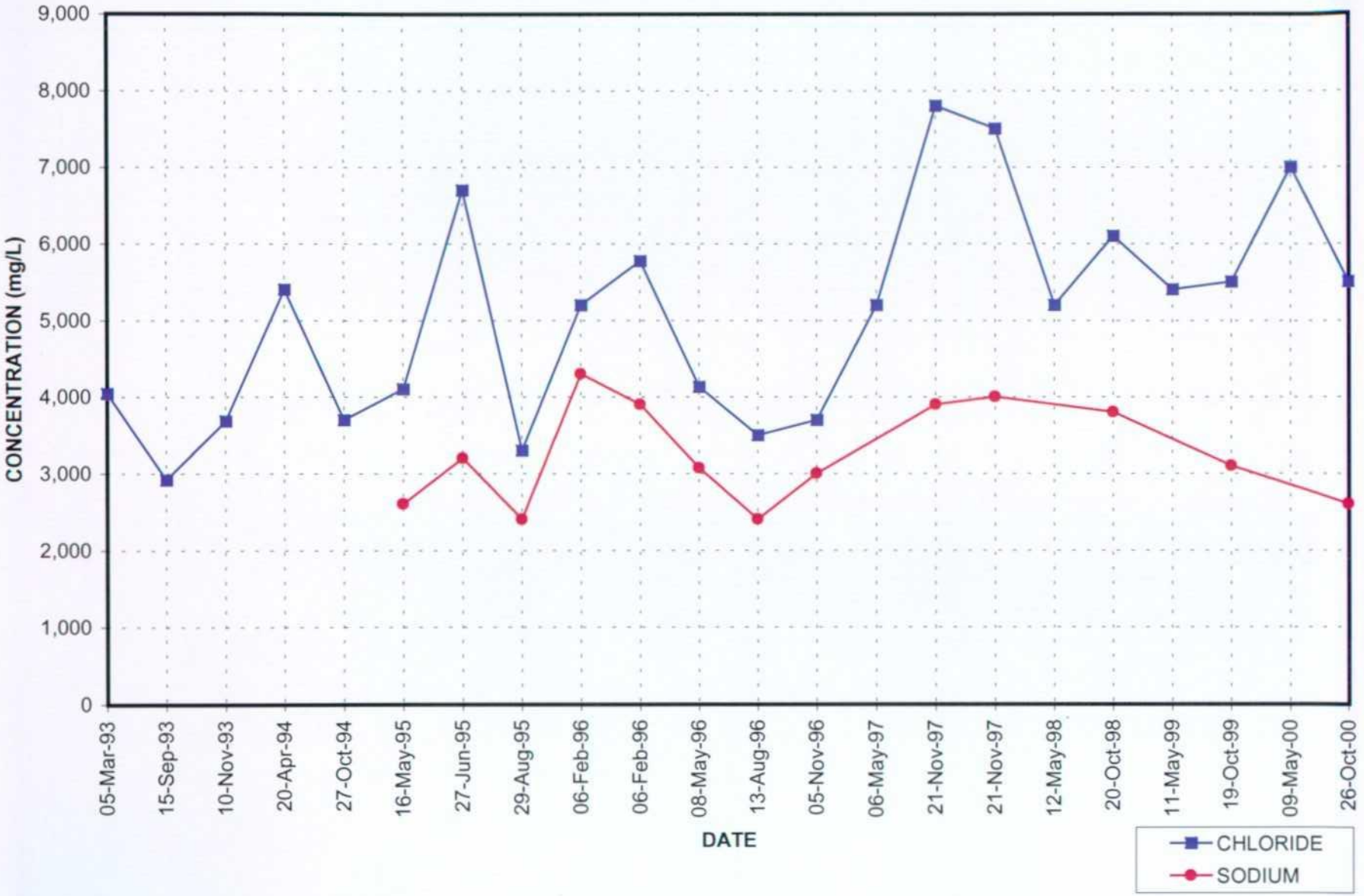
GRAPHS

MONITOR WELL ACW-01



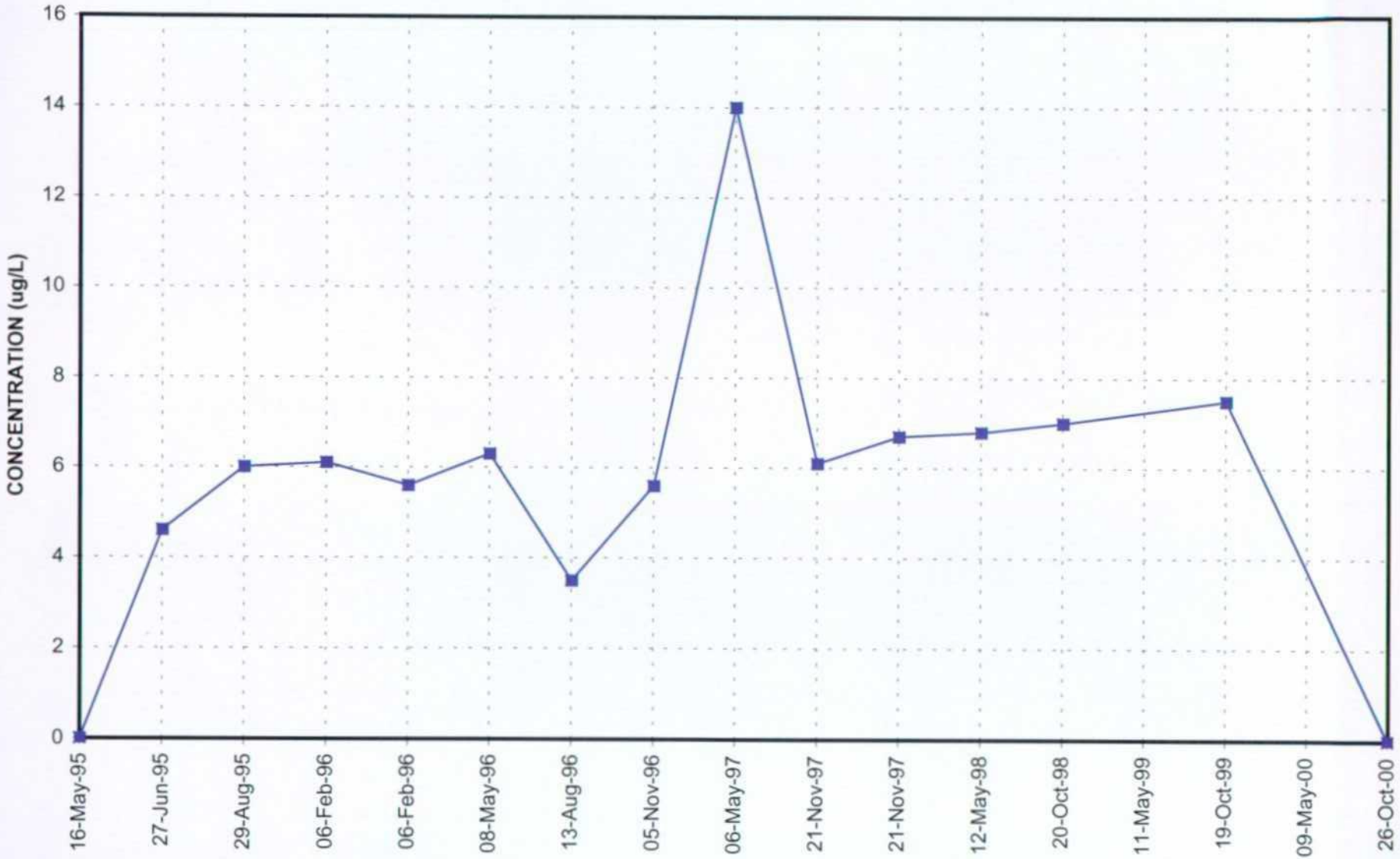
GRAPH 1

MONITOR WELL ACW-01



GRAPH 2

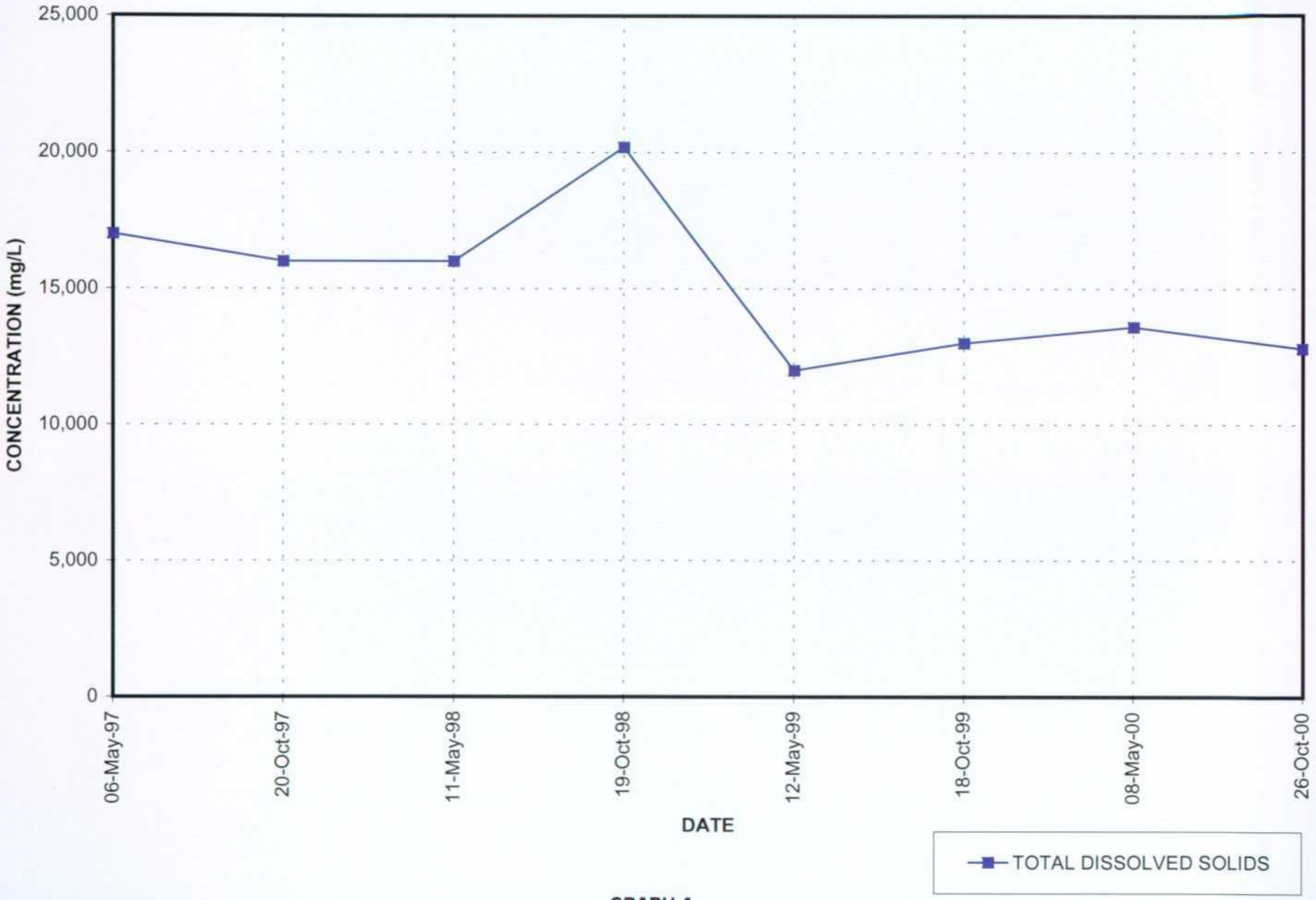
MONITOR WELL ACW-01



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

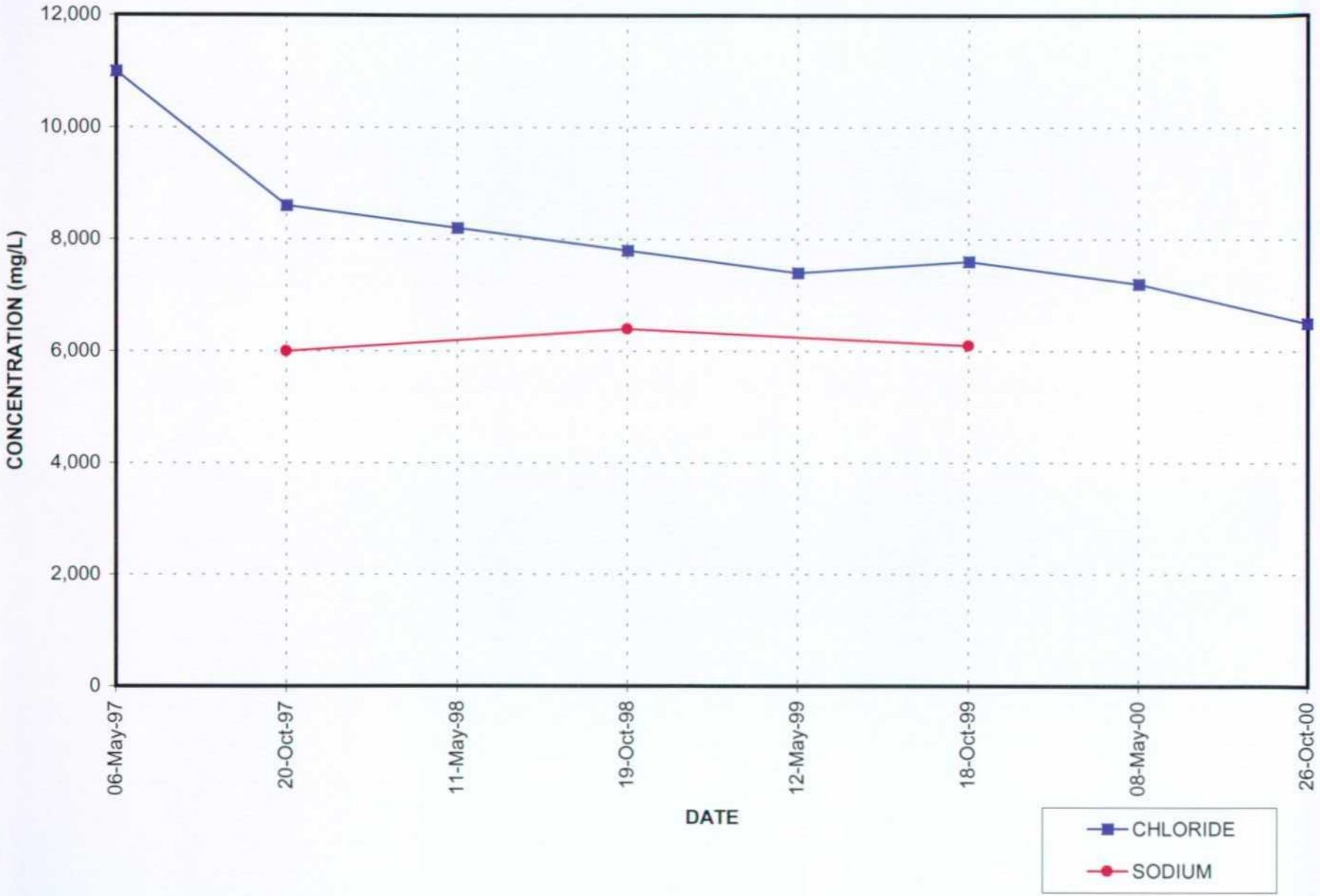
GRAPH 3

MONITOR WELL ACW-02A



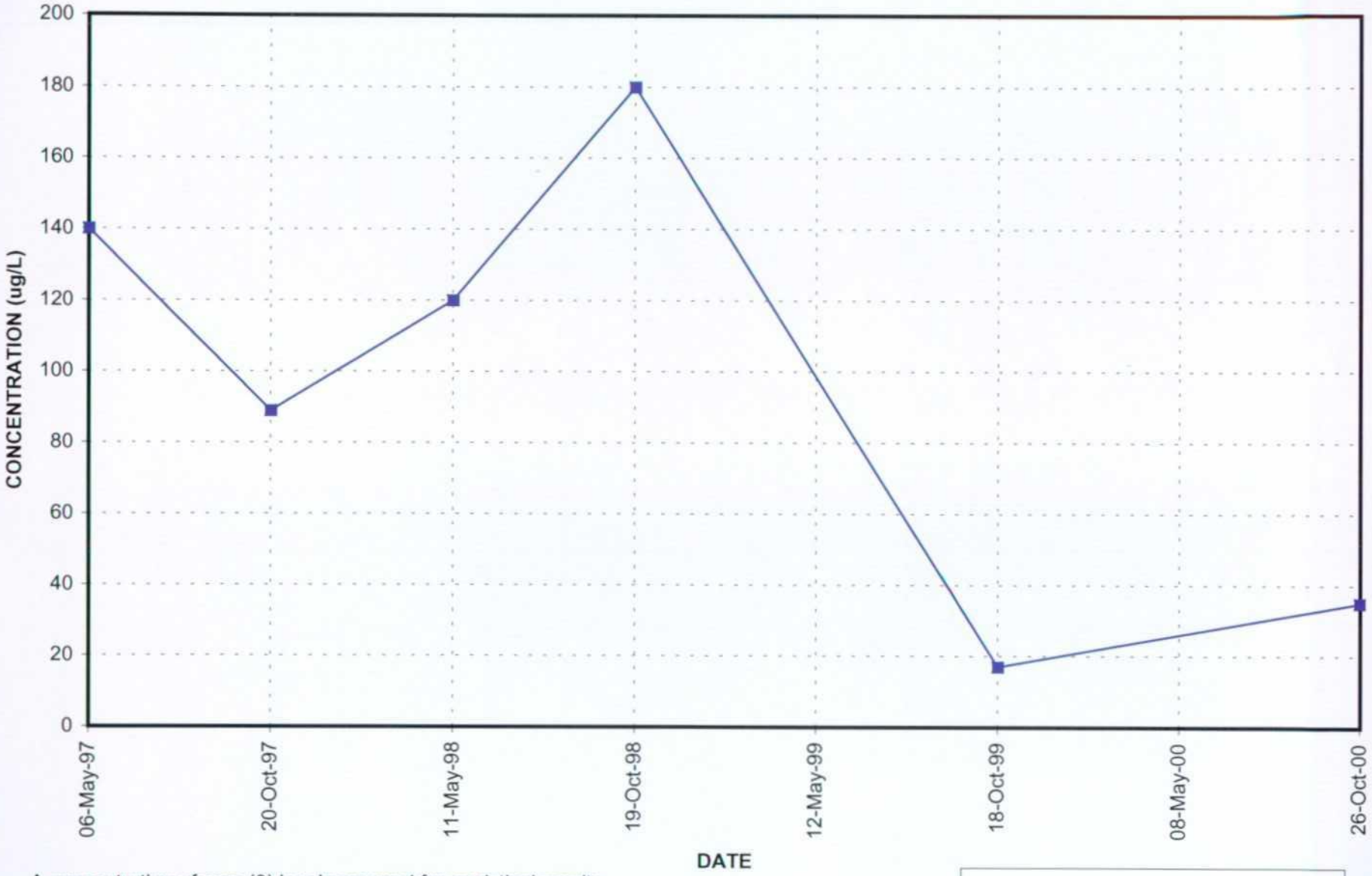
GRAPH 4

MONITOR WELL ACW-02A



GRAPH 5

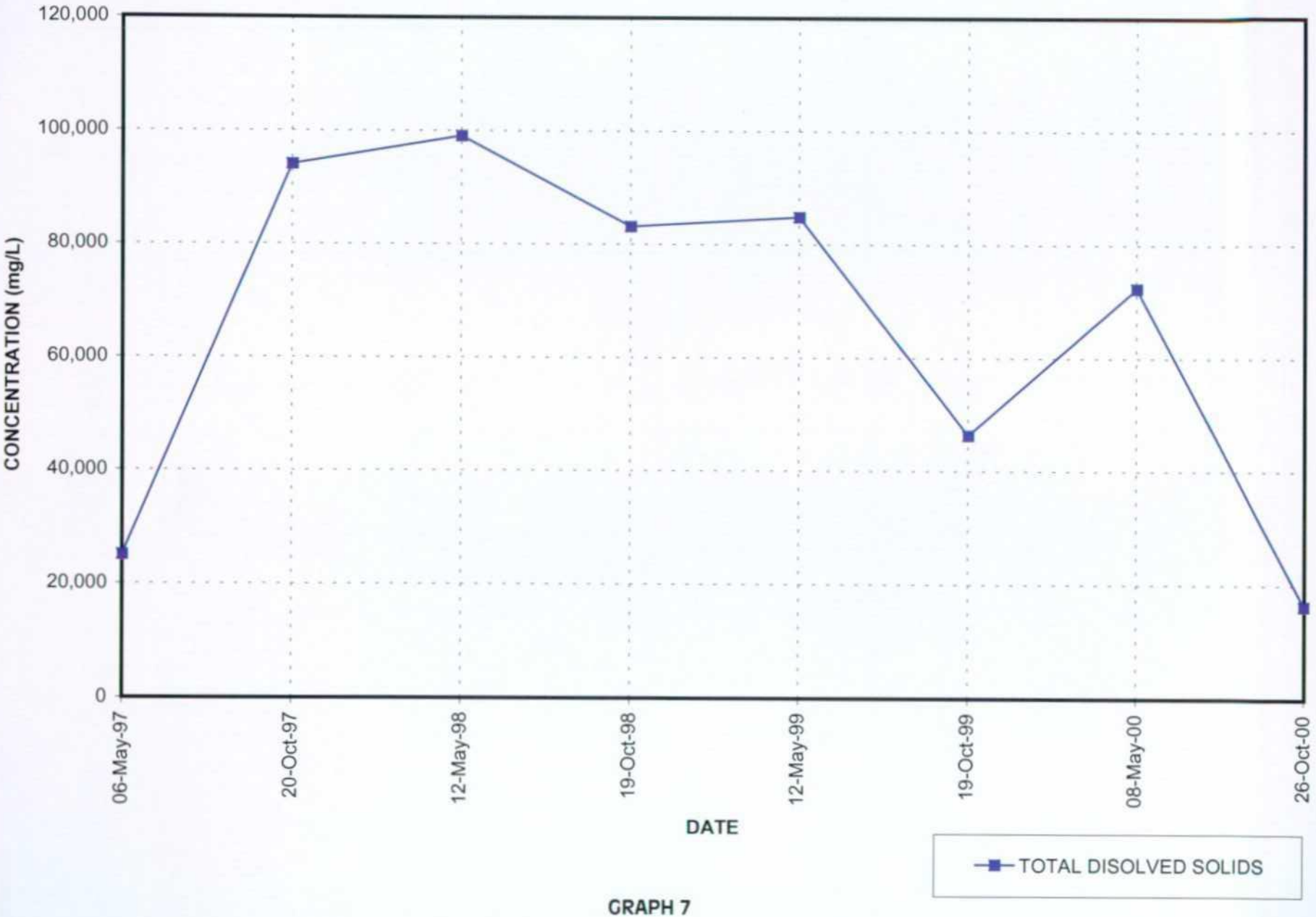
MONITOR WELL ACW-02A



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

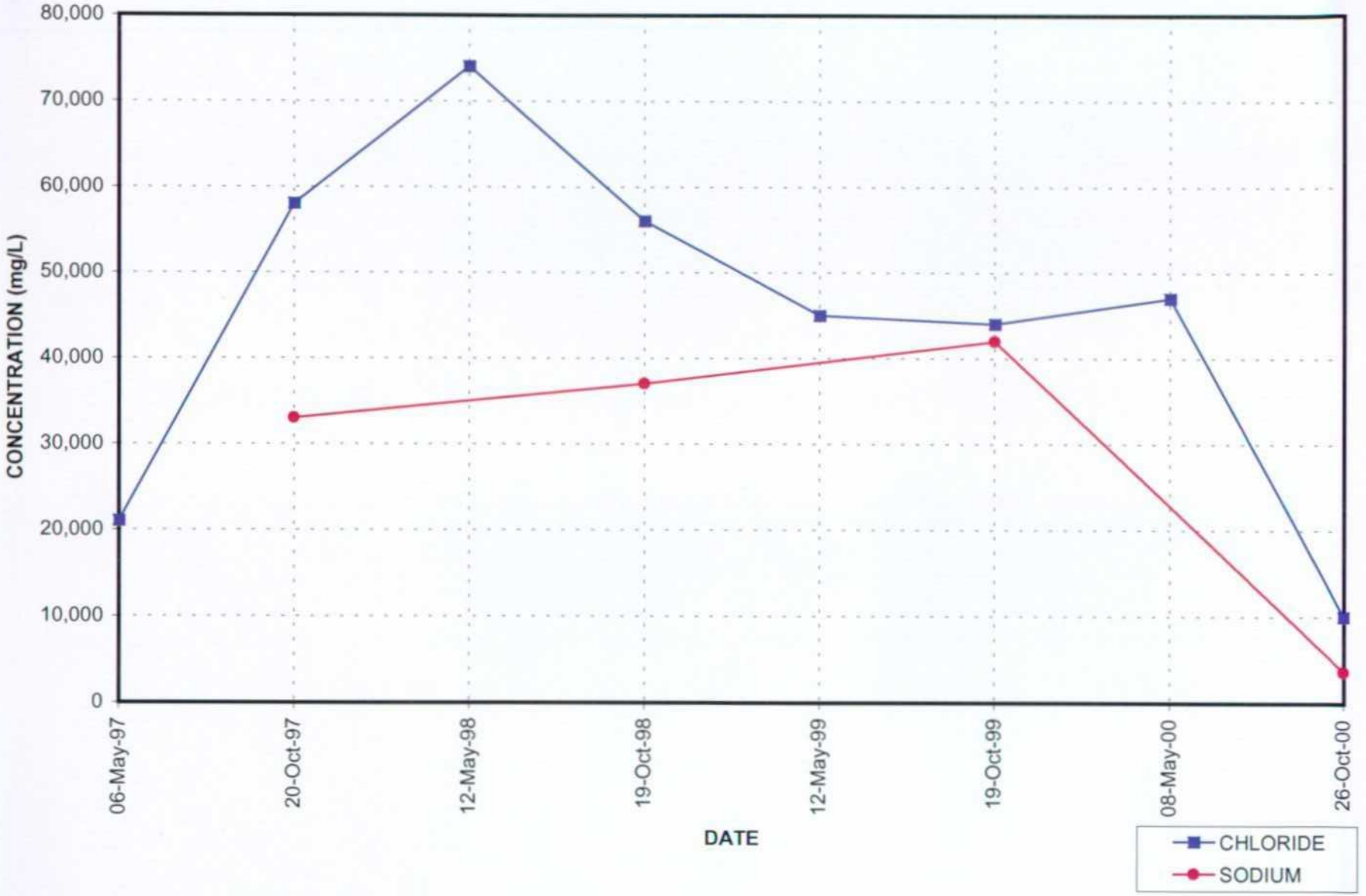
GRAPH 6

MONITOR WELL ACW-04



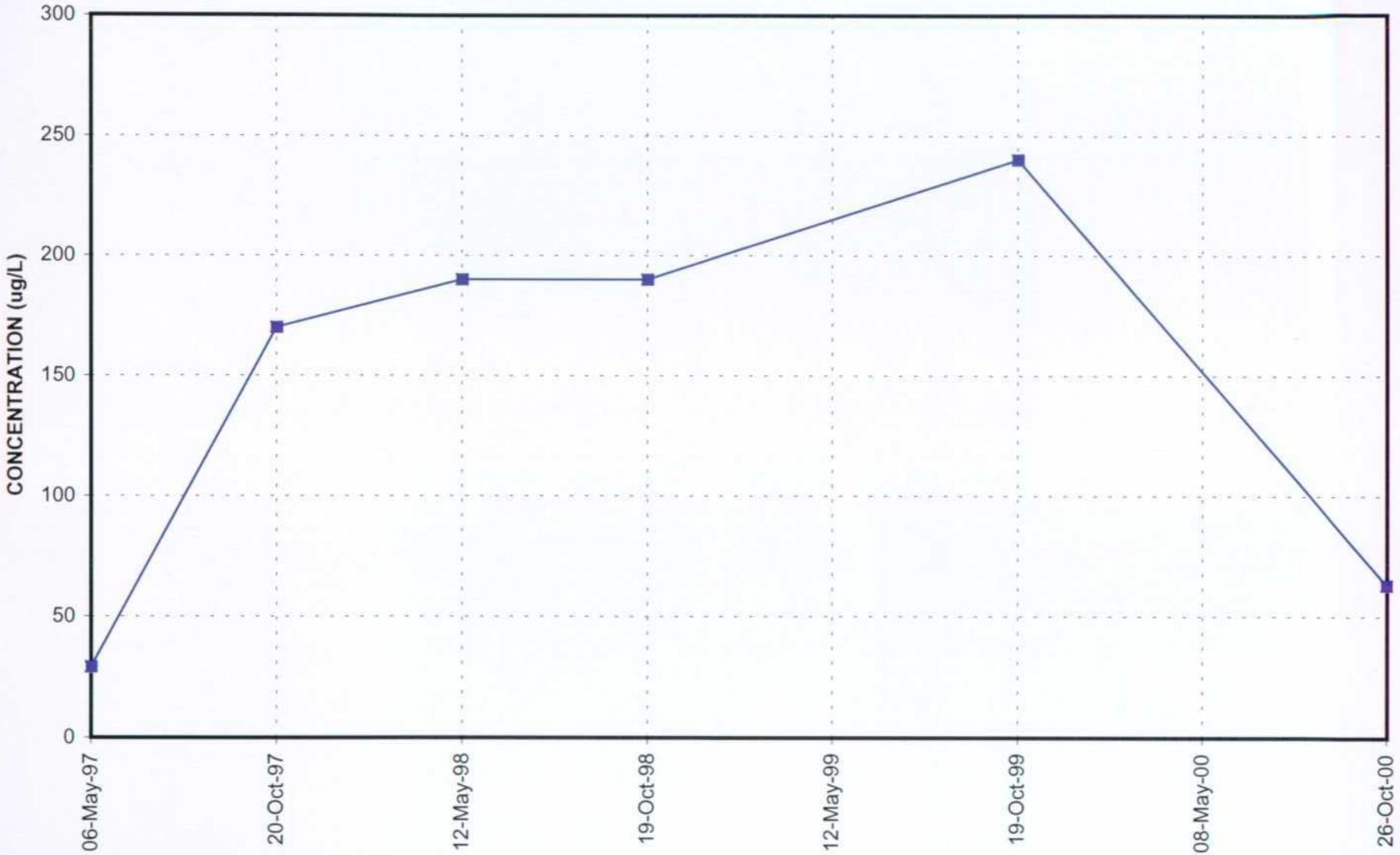
GRAPH 7

MONITOR WELL ACW-04



GRAPH 8

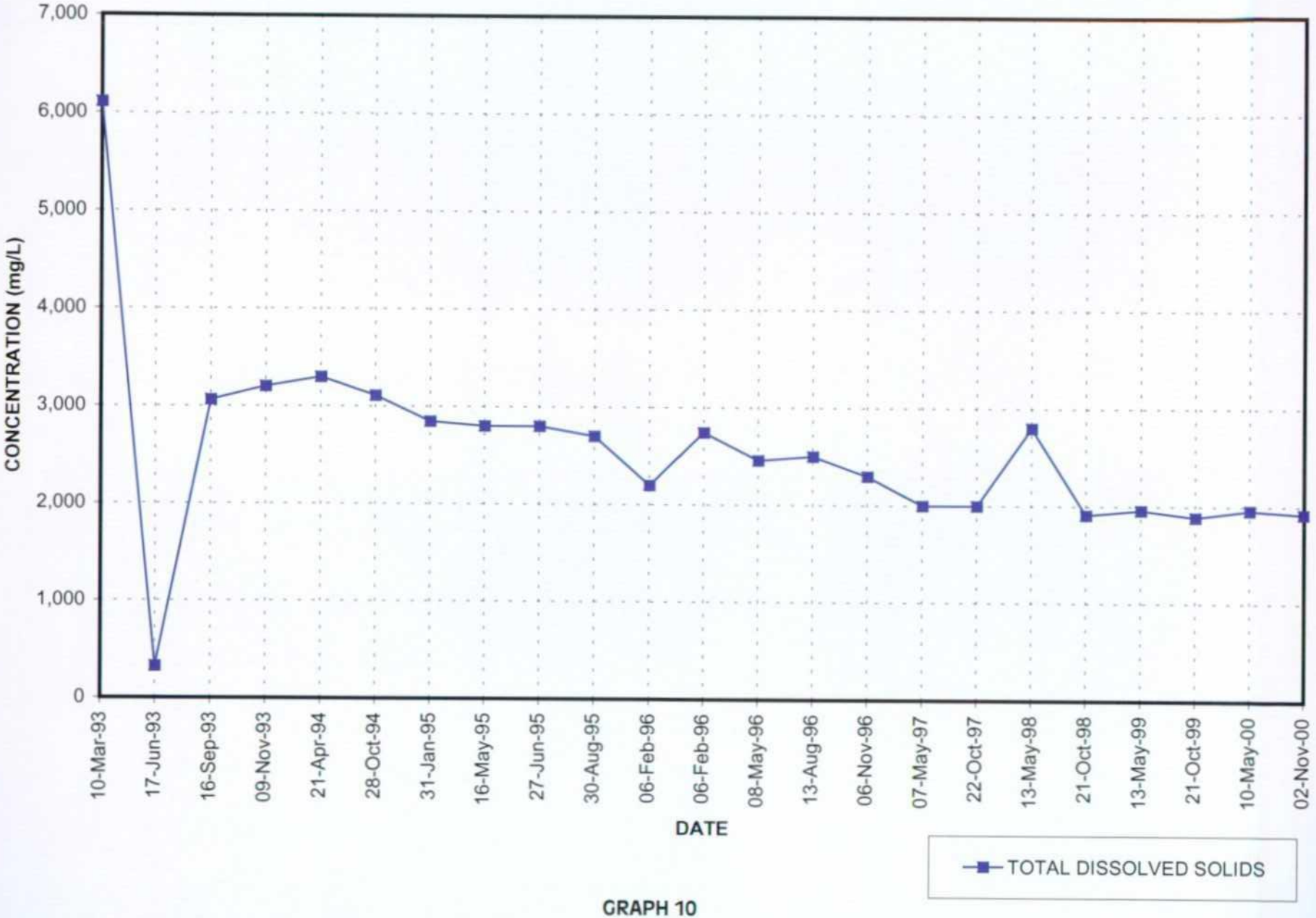
MONITOR WELL ACW-04



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

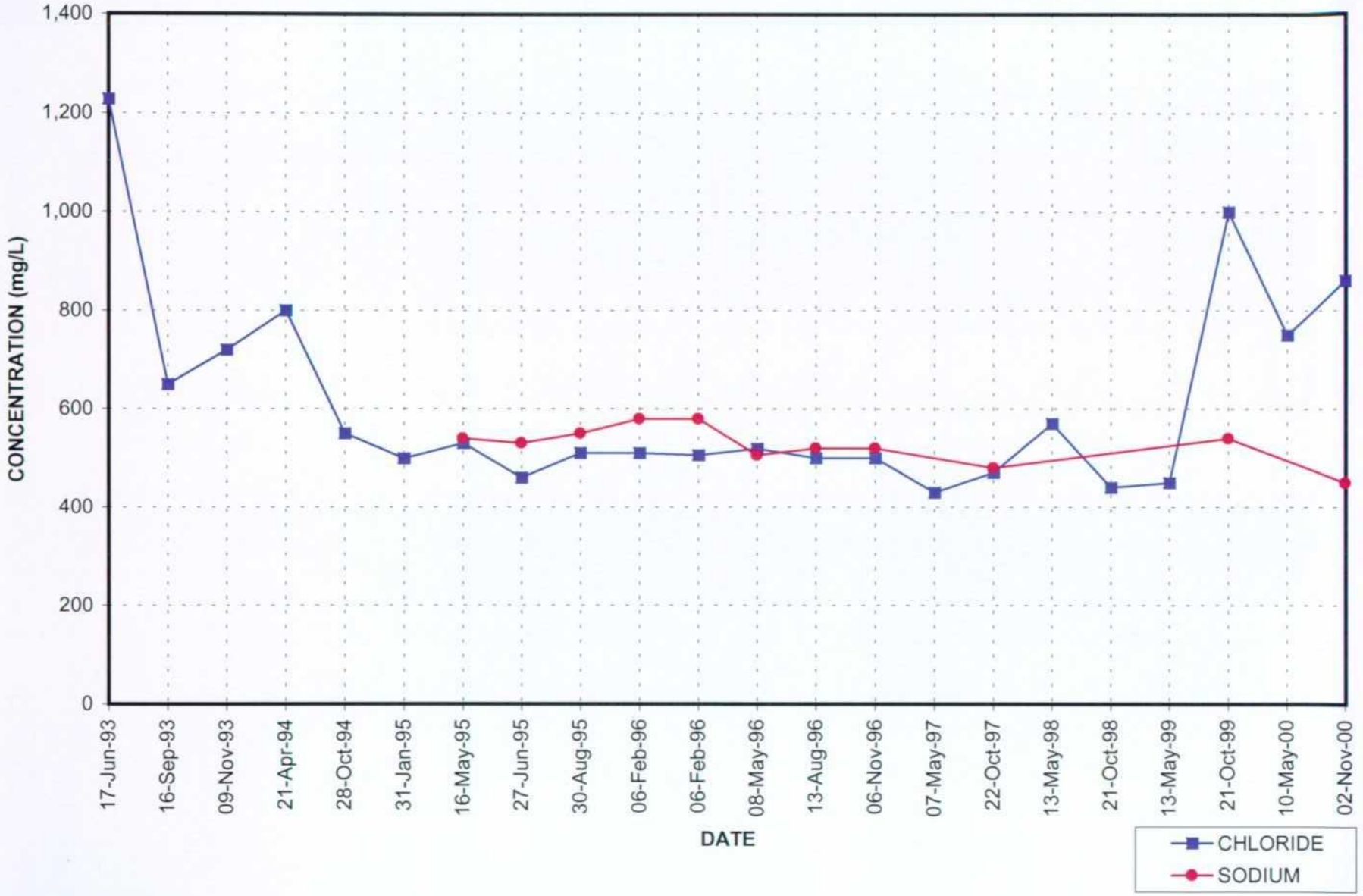
GRAPH 9

MONITOR WELL ACW-05



GRAPH 10

MONITOR WELL ACW-05



GRAPH 11

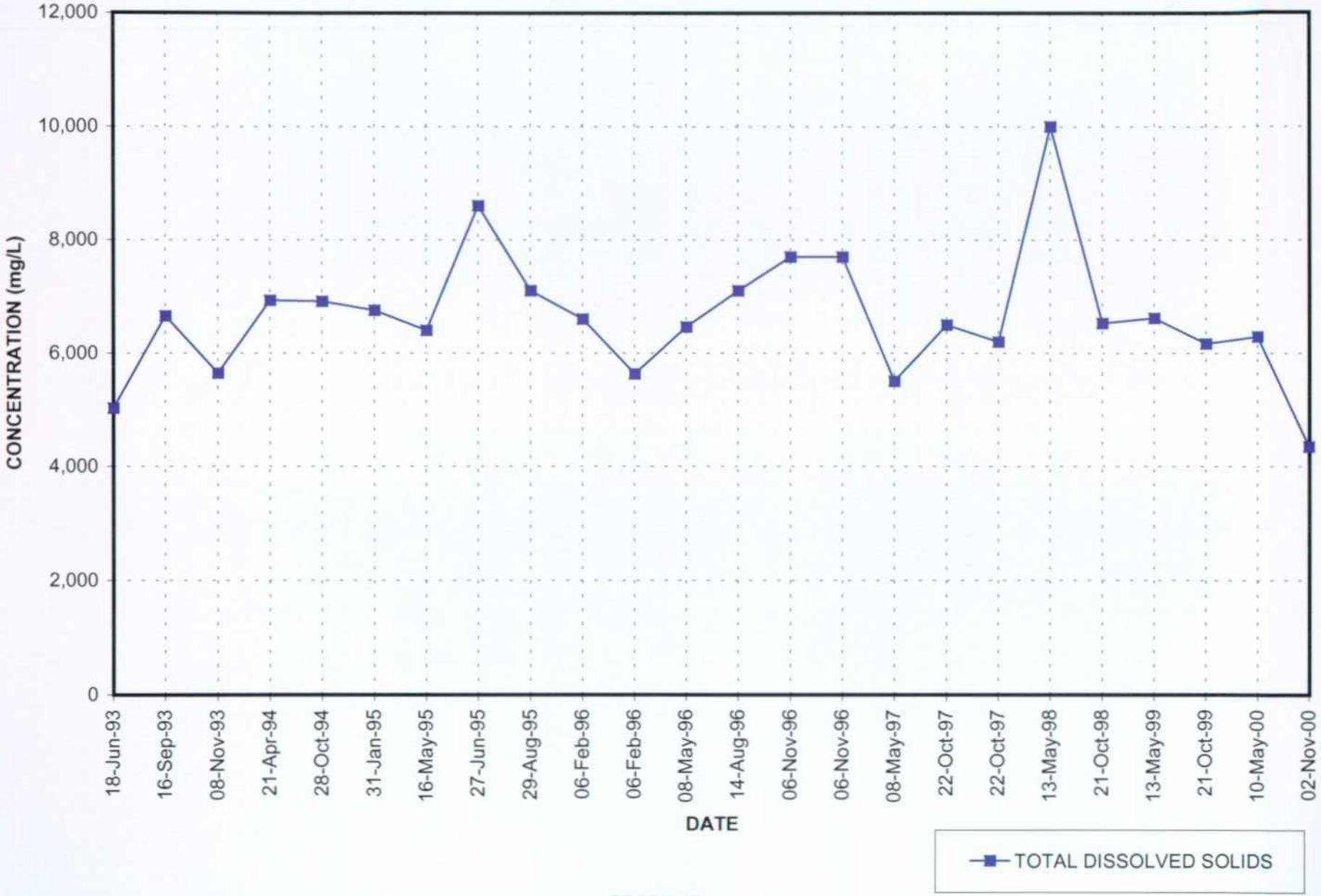
MONITOR WELL ACW-05



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

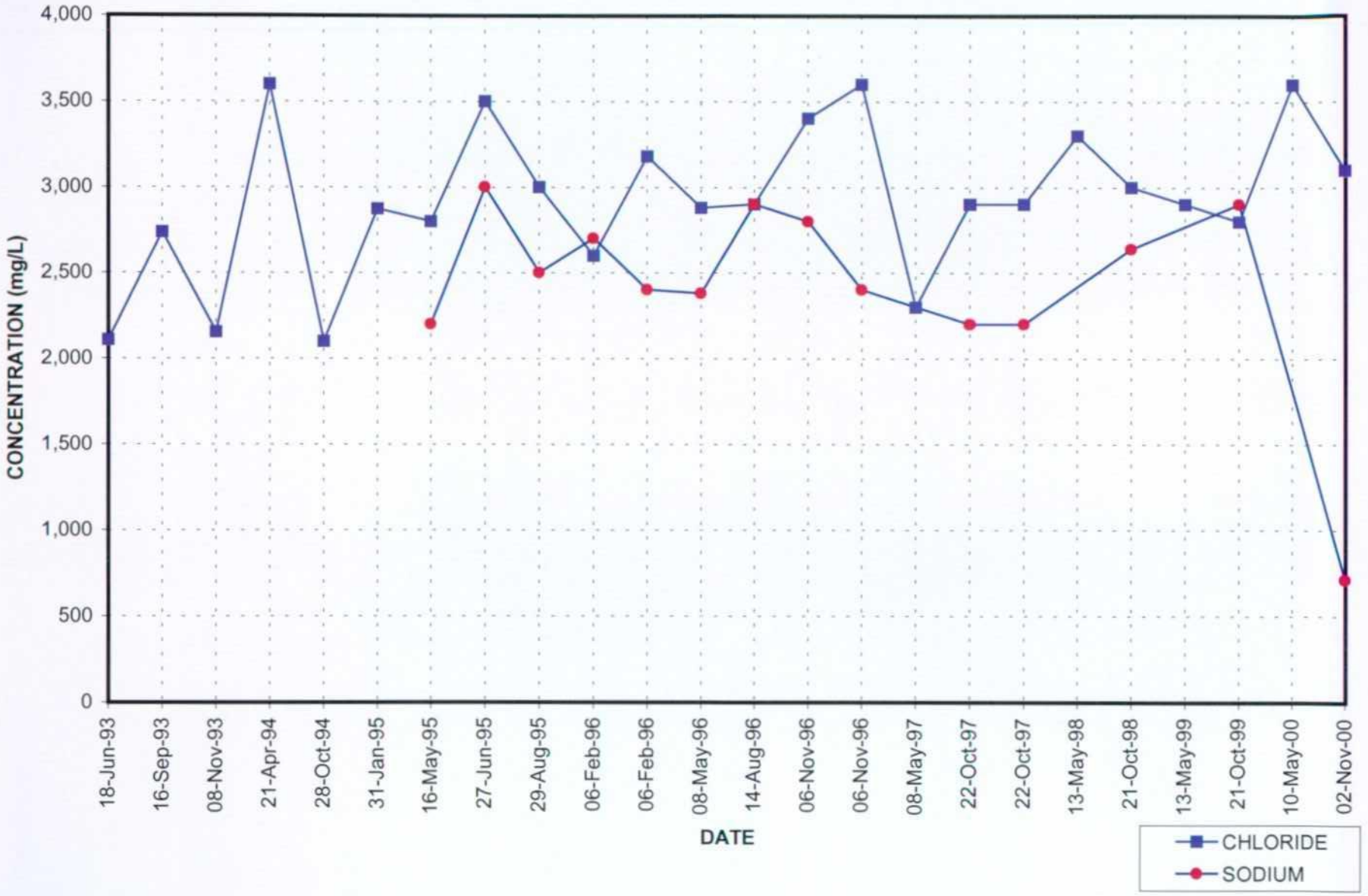
GRAPH 12

MONITOR WELL ACW-06



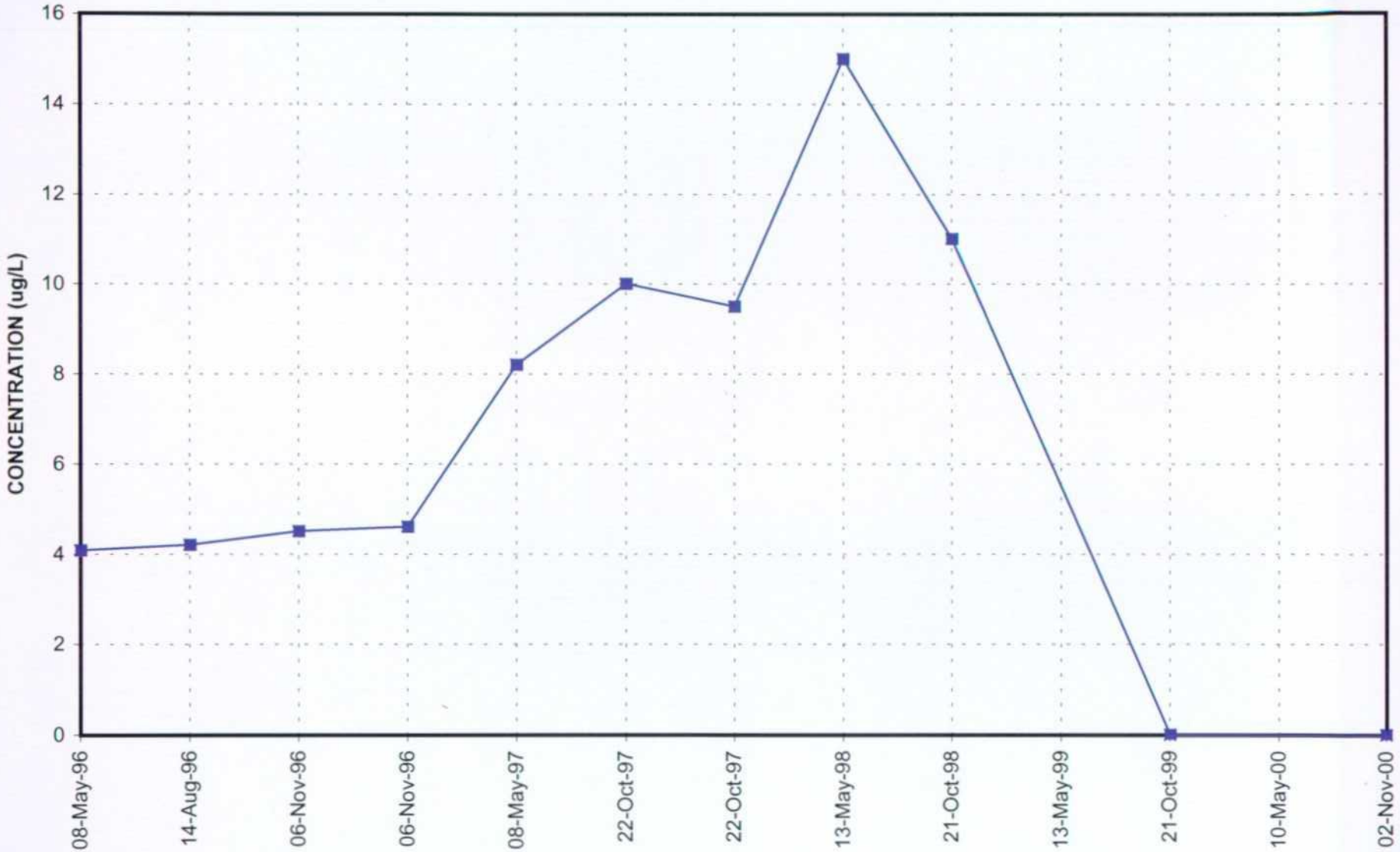
GRAPH 13

MONITOR WELL ACW-06



GRAPH 14

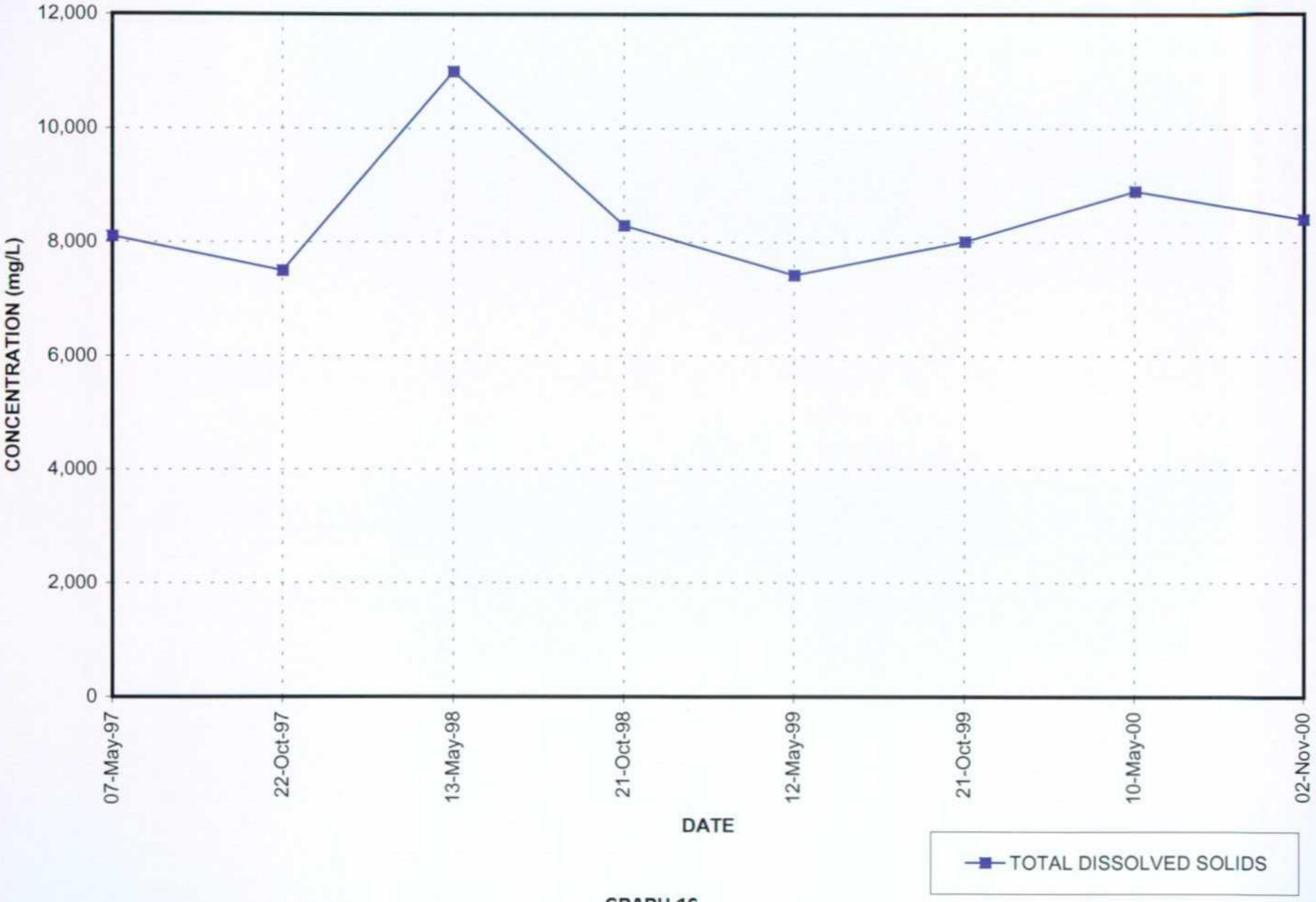
MONITOR WELL ACW-06



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

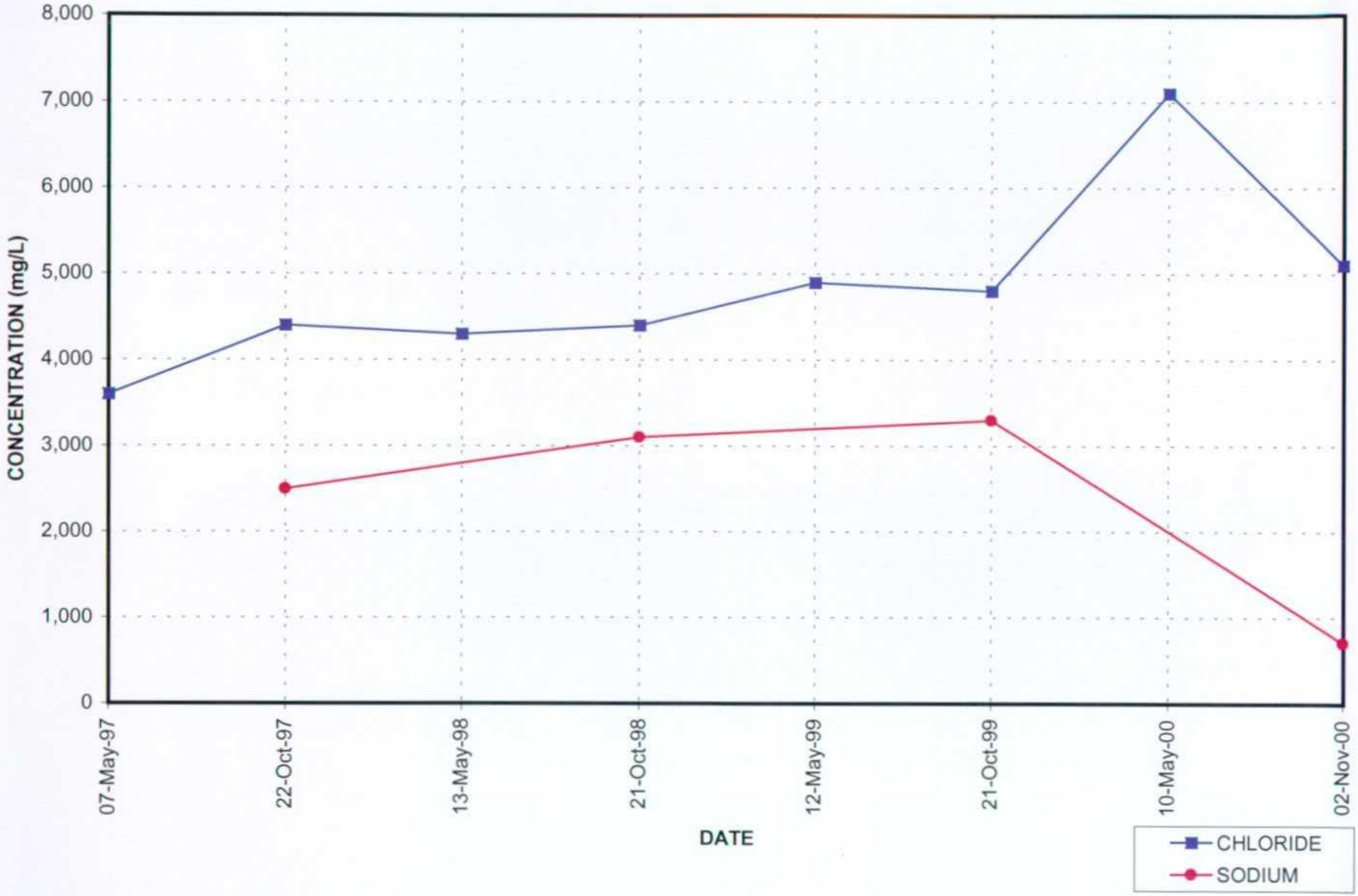
GRAPH 15

MONITOR WELL ACW-07



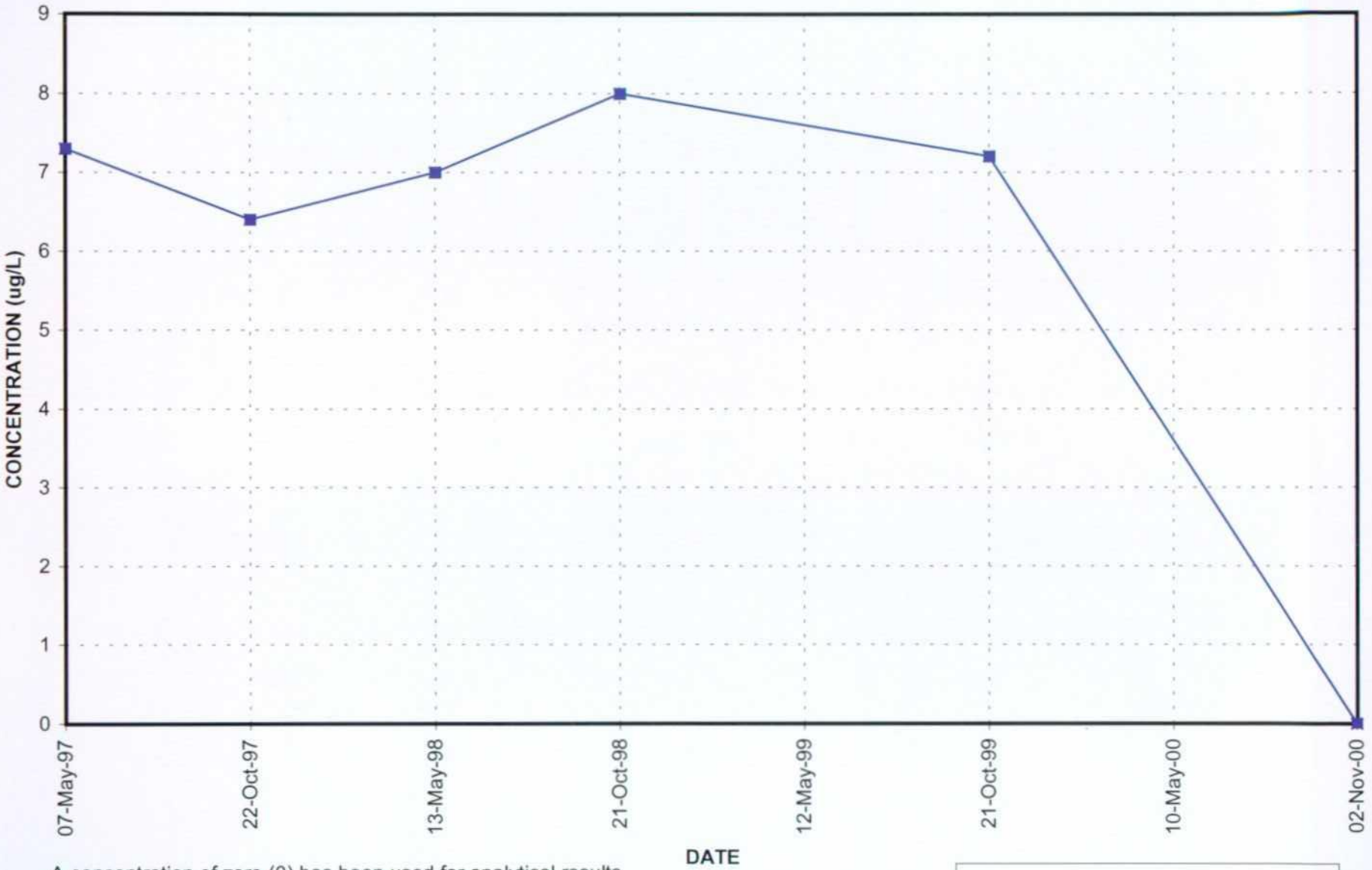
GRAPH 16

MONITOR WELL ACW-07



GRAPH 17

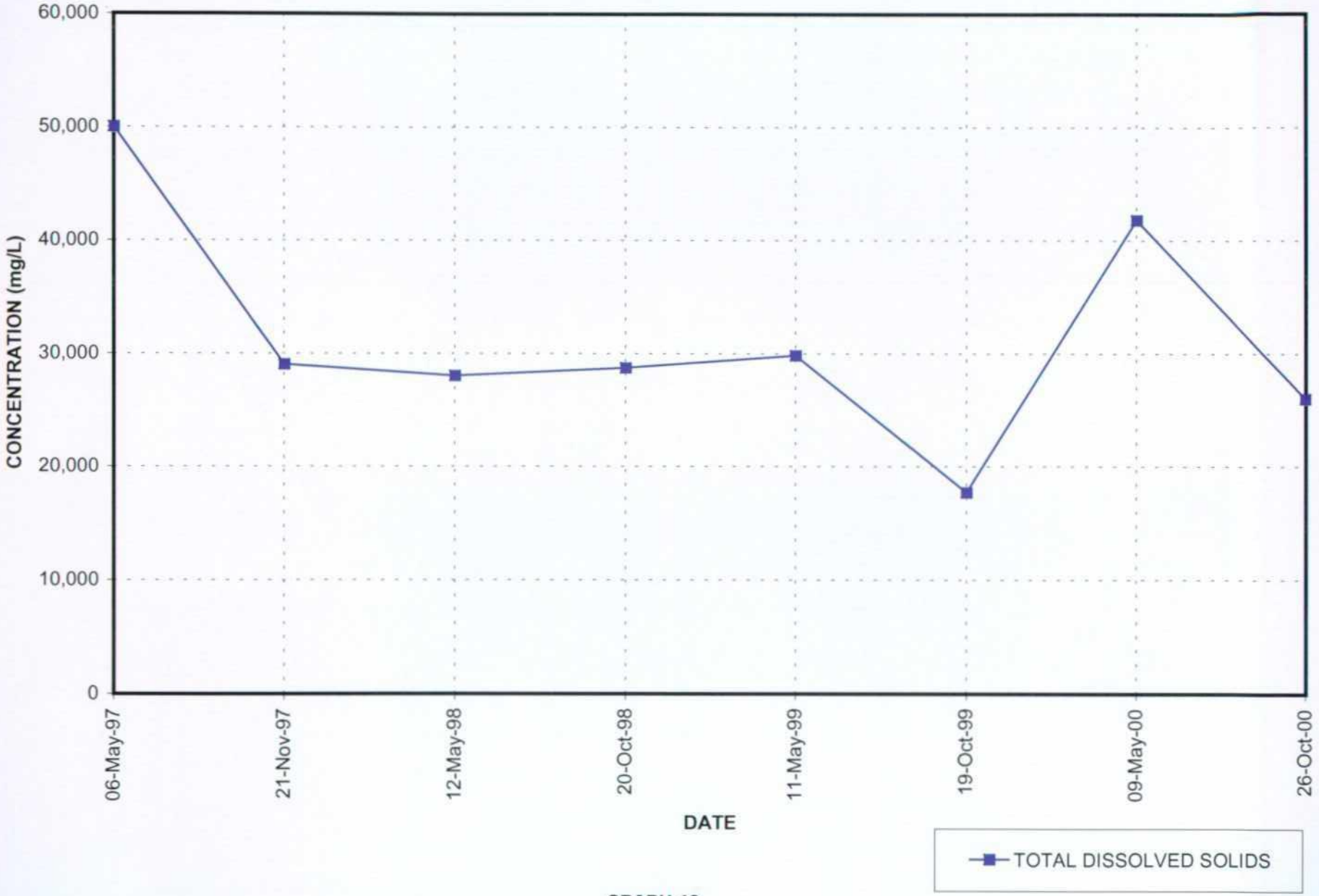
MONITOR WELL ACW-07



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

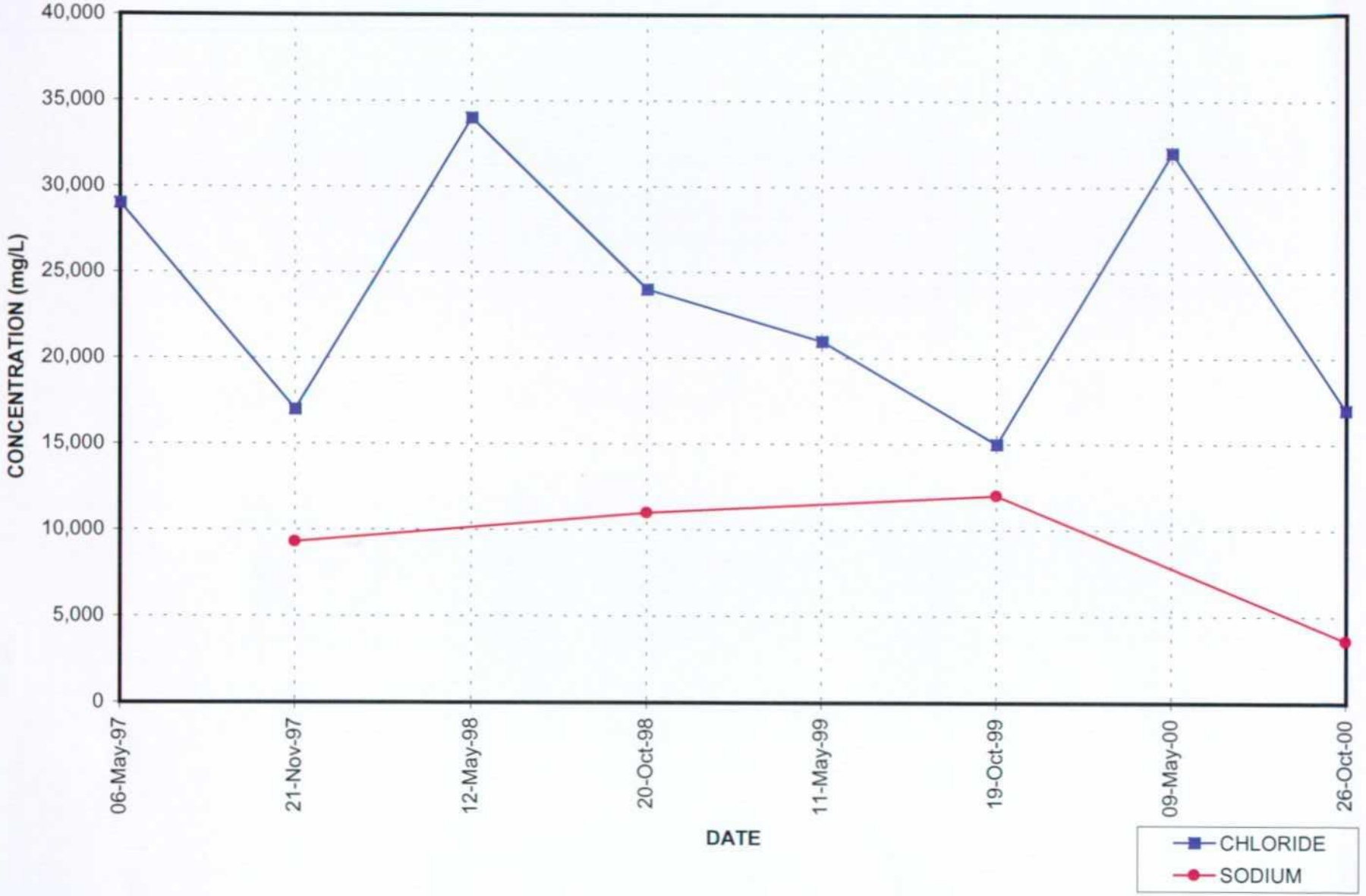
GRAPH 18

MONITOR WELL ACW-08



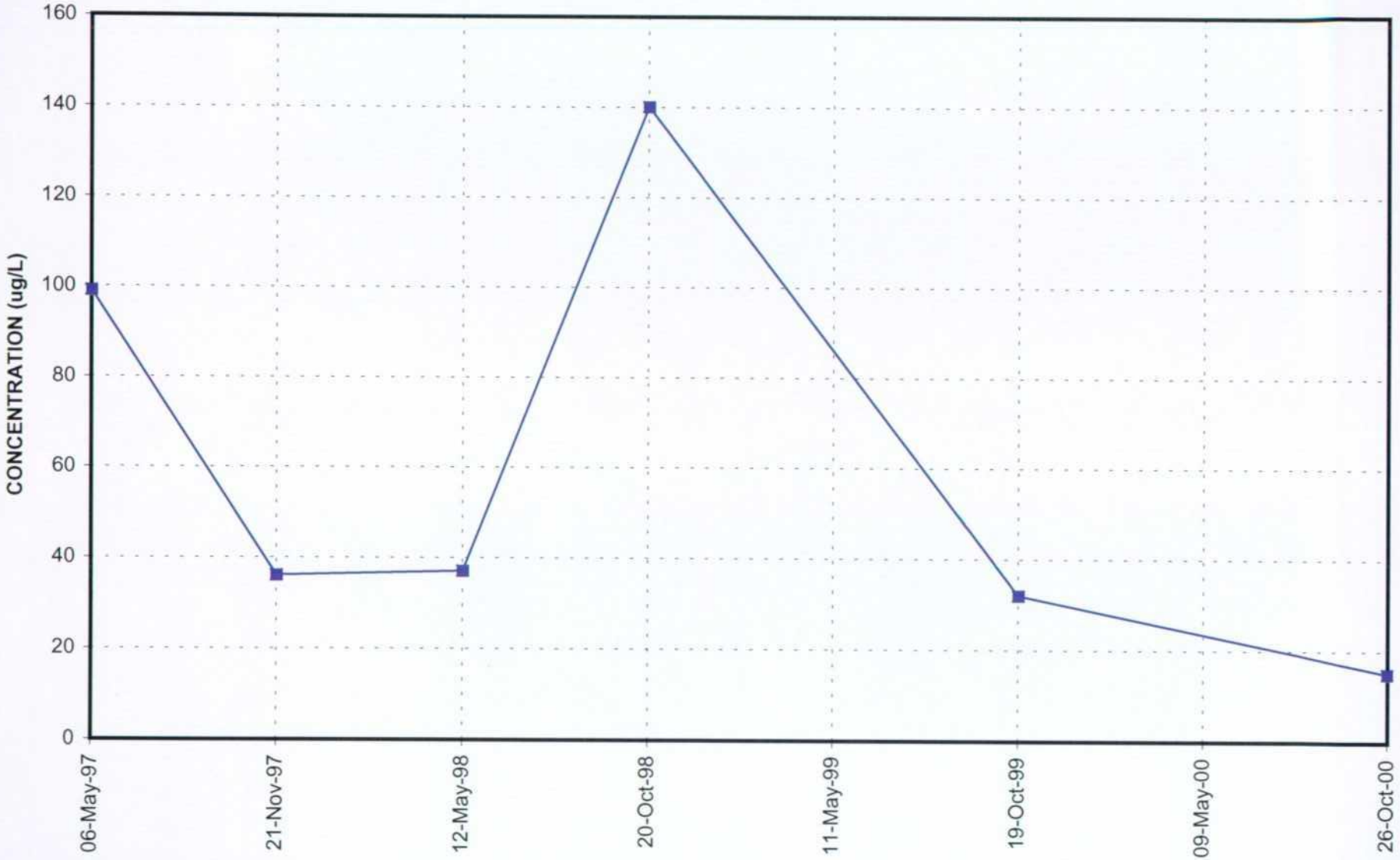
GRAPH 19

MONITOR WELL ACW-08



GRAPH 20

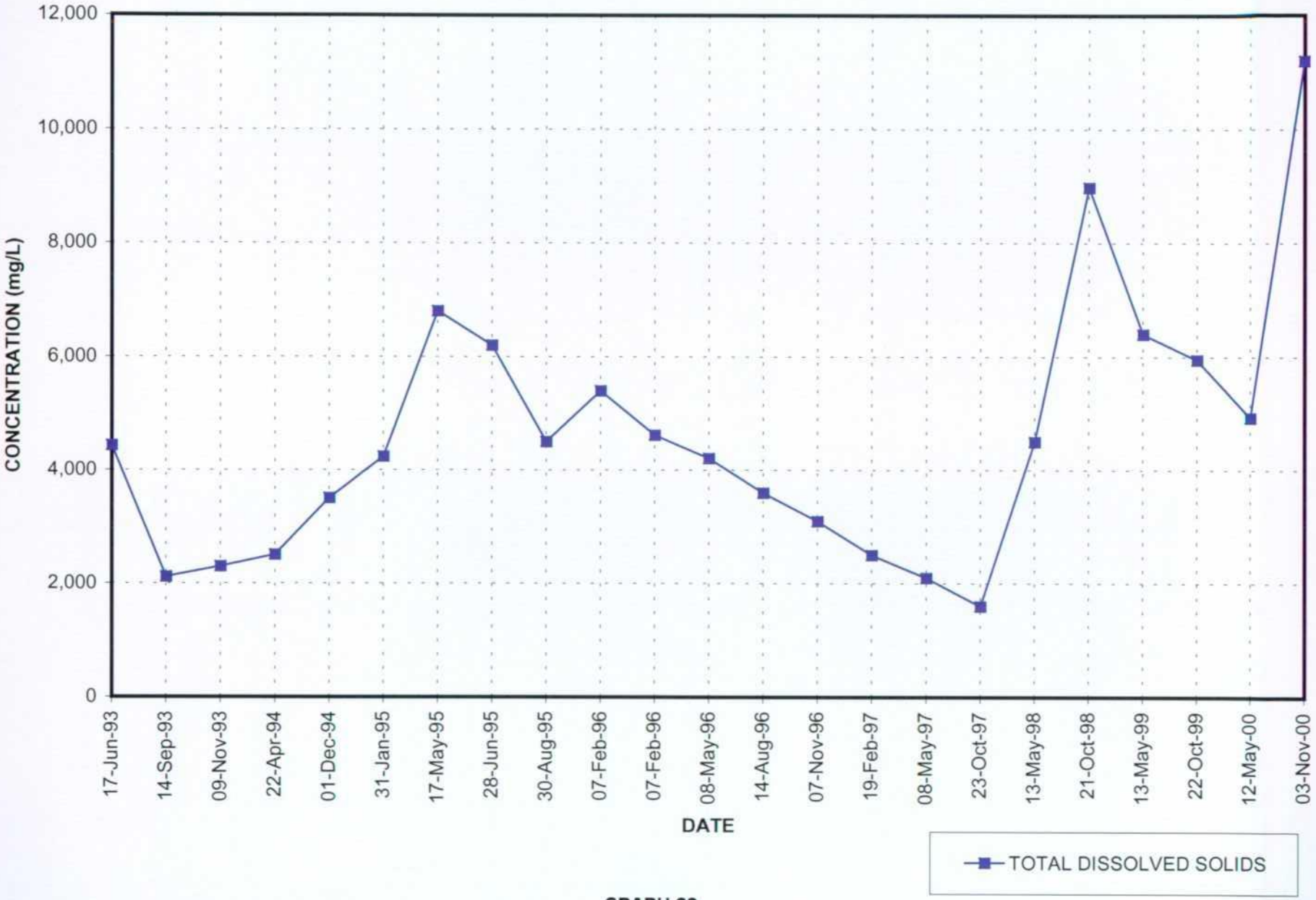
MONITOR WELL ACW-08



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

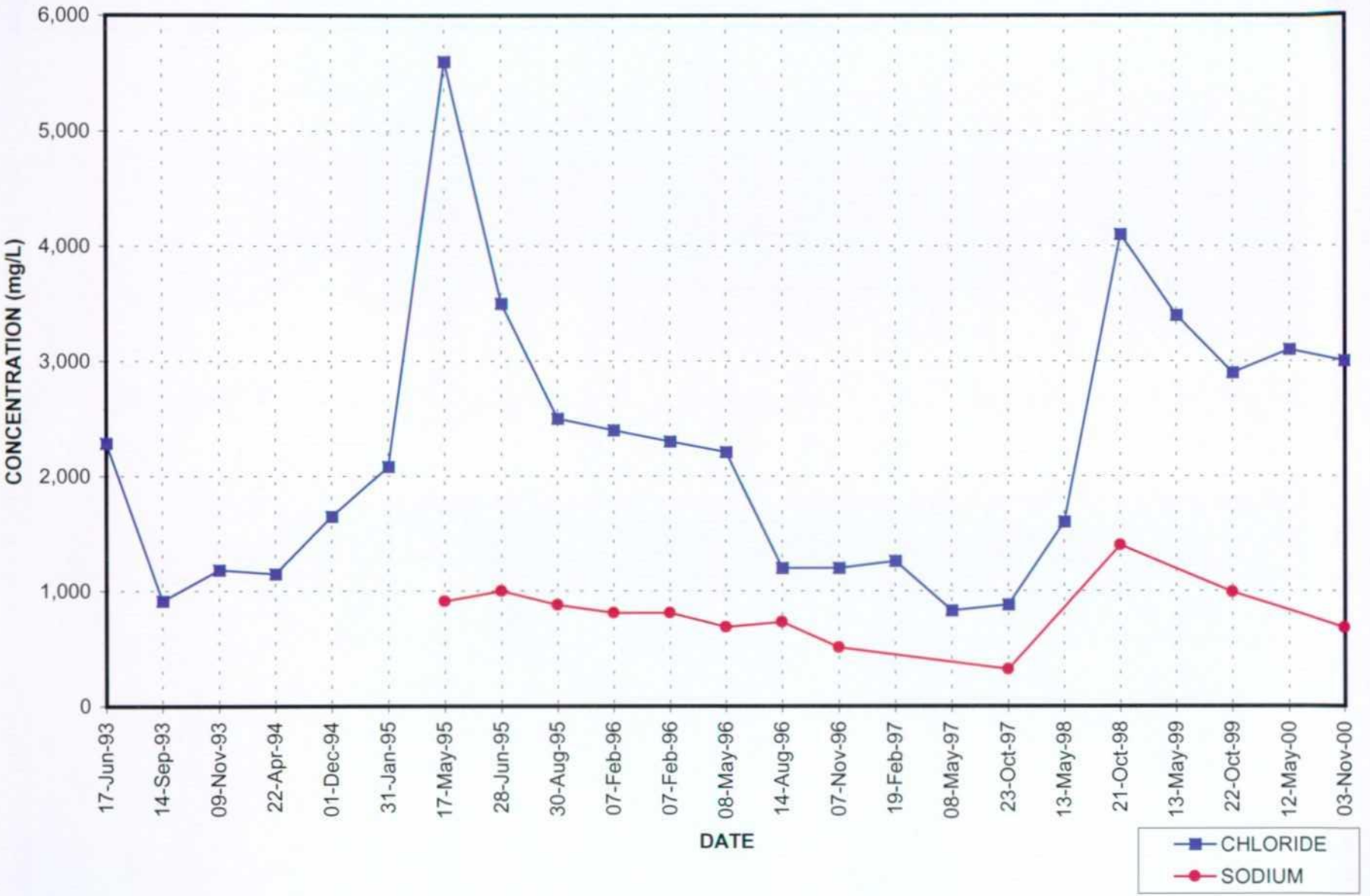
GRAPH 21

MONITOR WELL ACW-09



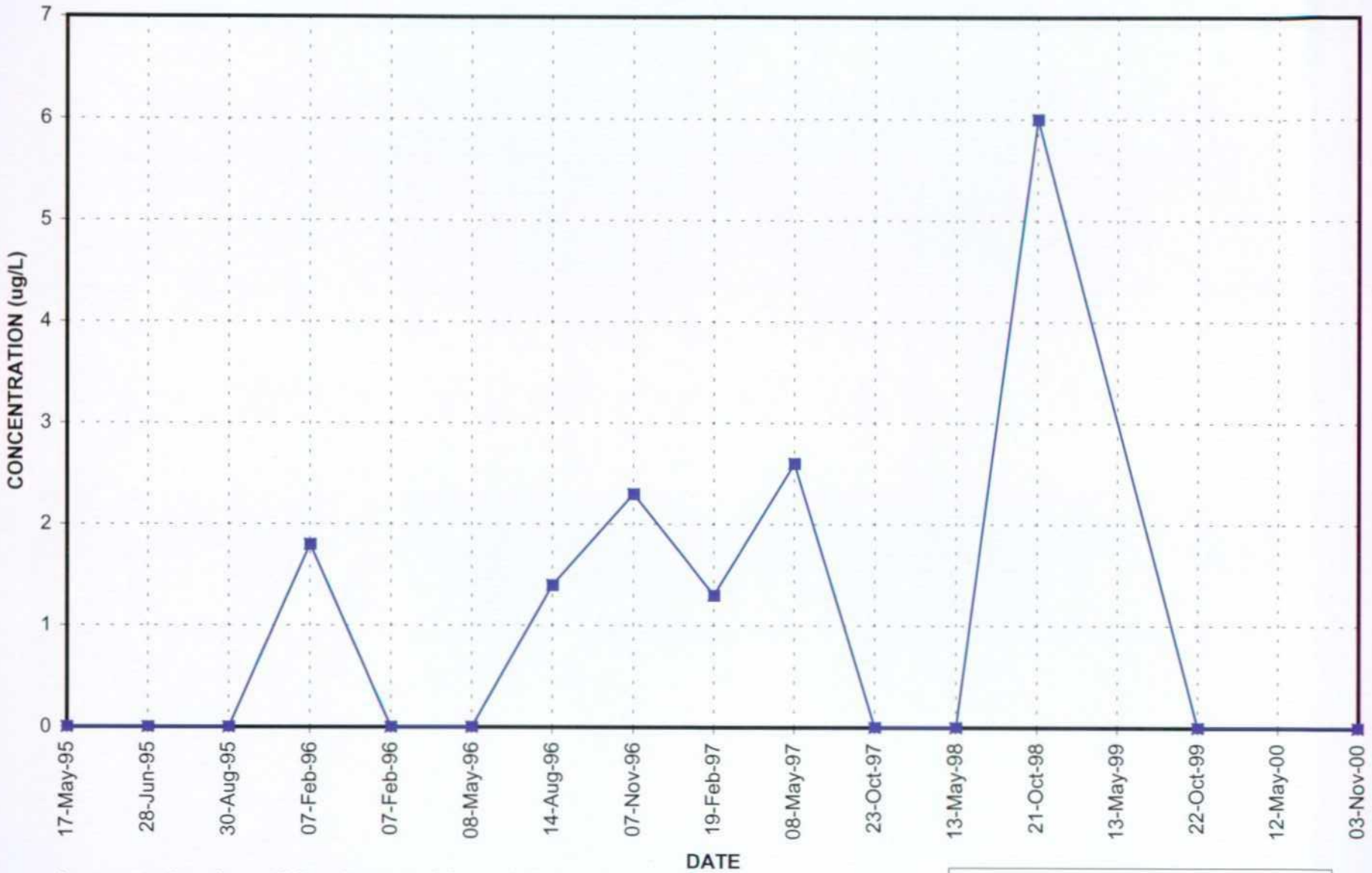
GRAPH 22

MONITOR WELL ACW-09



GRAPH 23

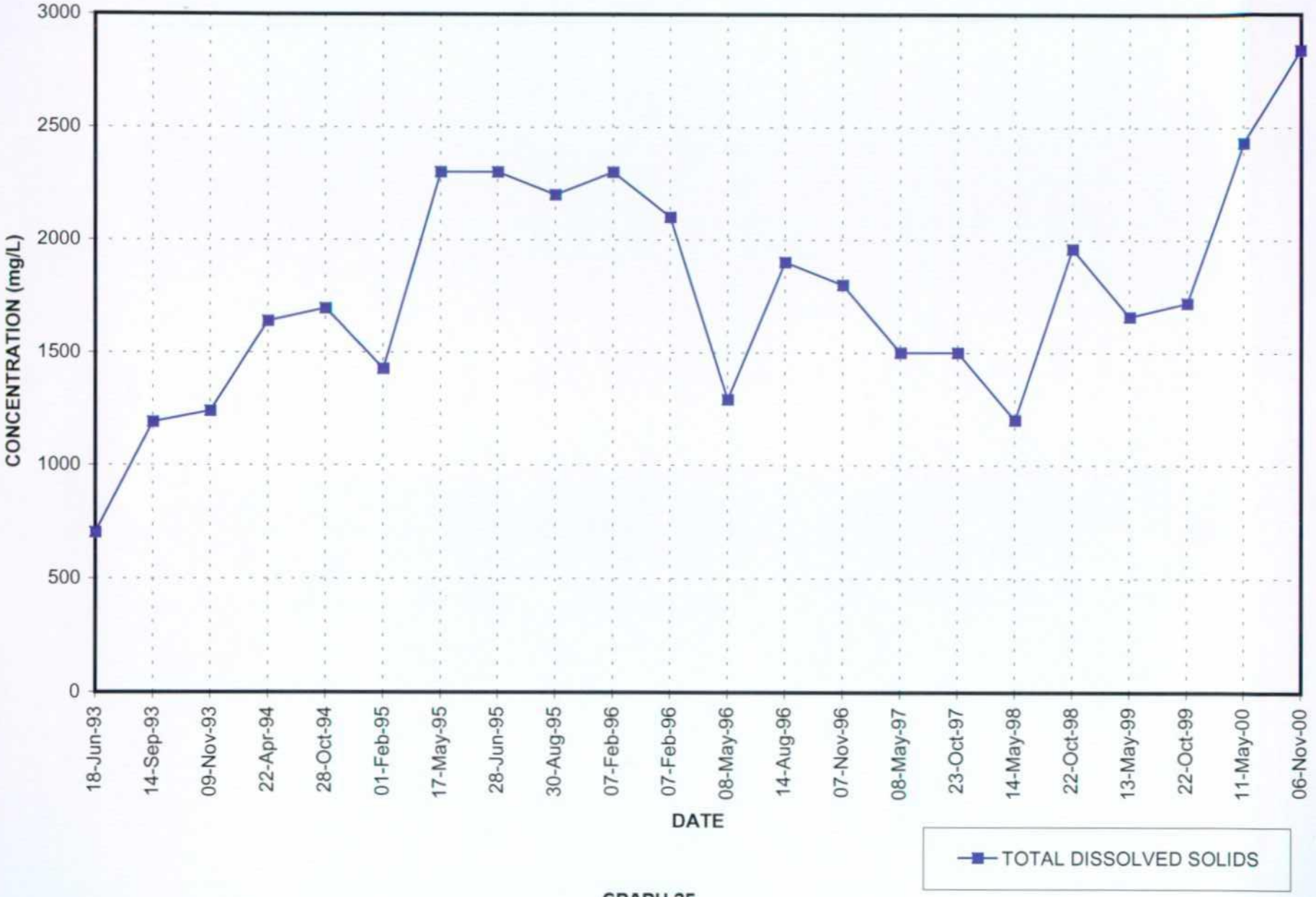
MONITOR WELL ACW-09



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

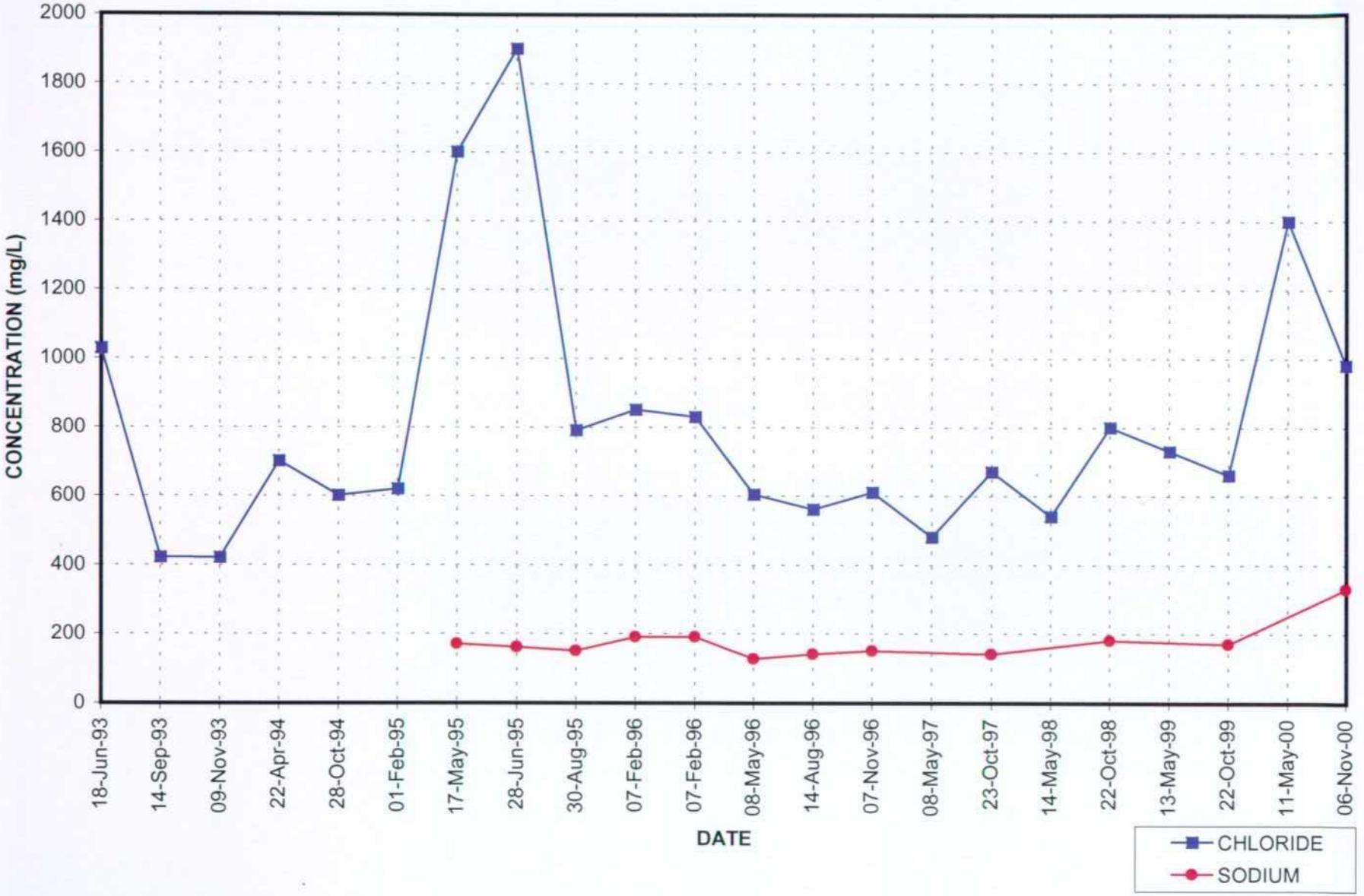
GRAPH 24

MONITOR WELL ACW-10



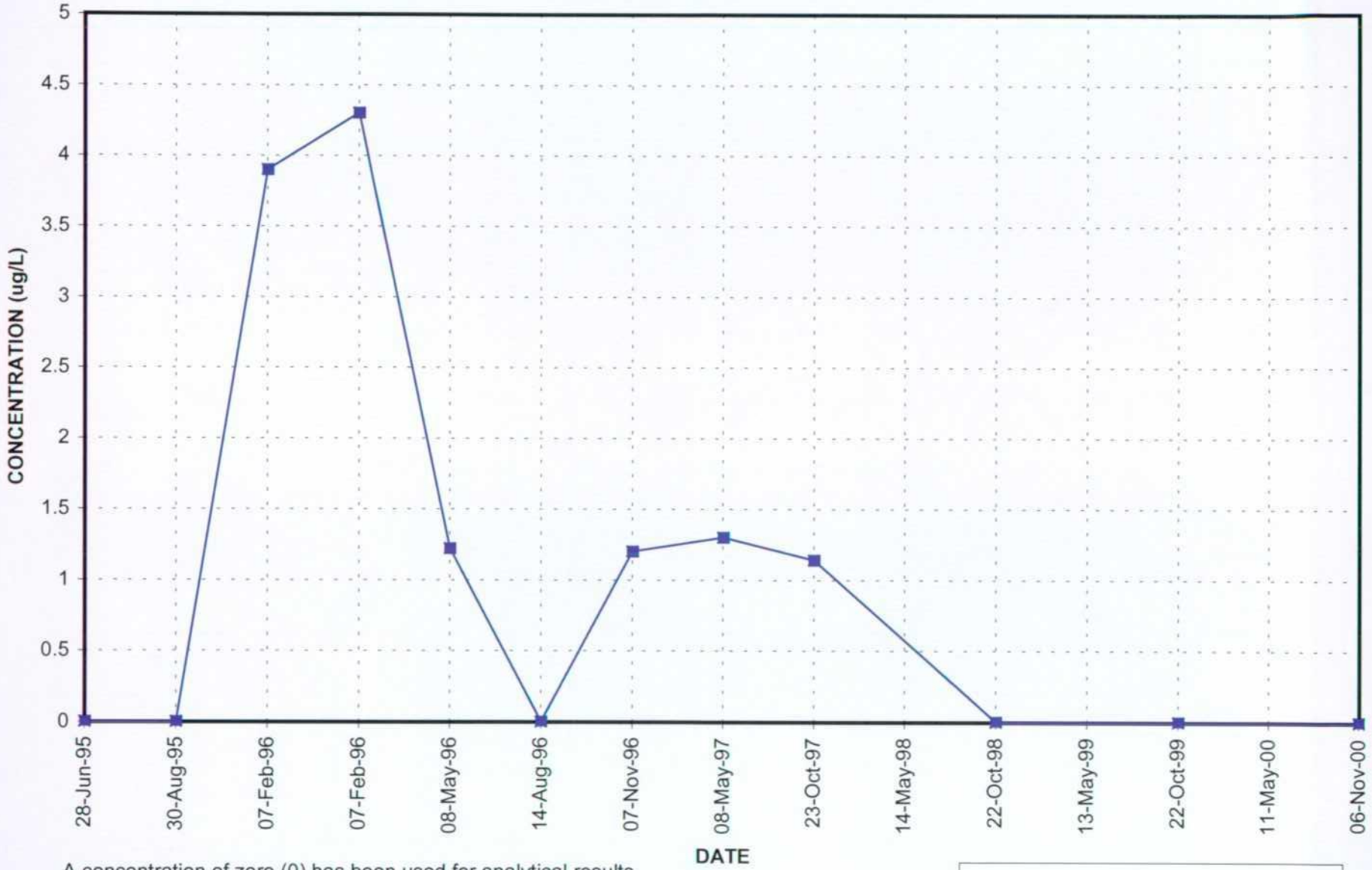
GRAPH 25

MONITOR WELL ACW-10



GRAPH 26

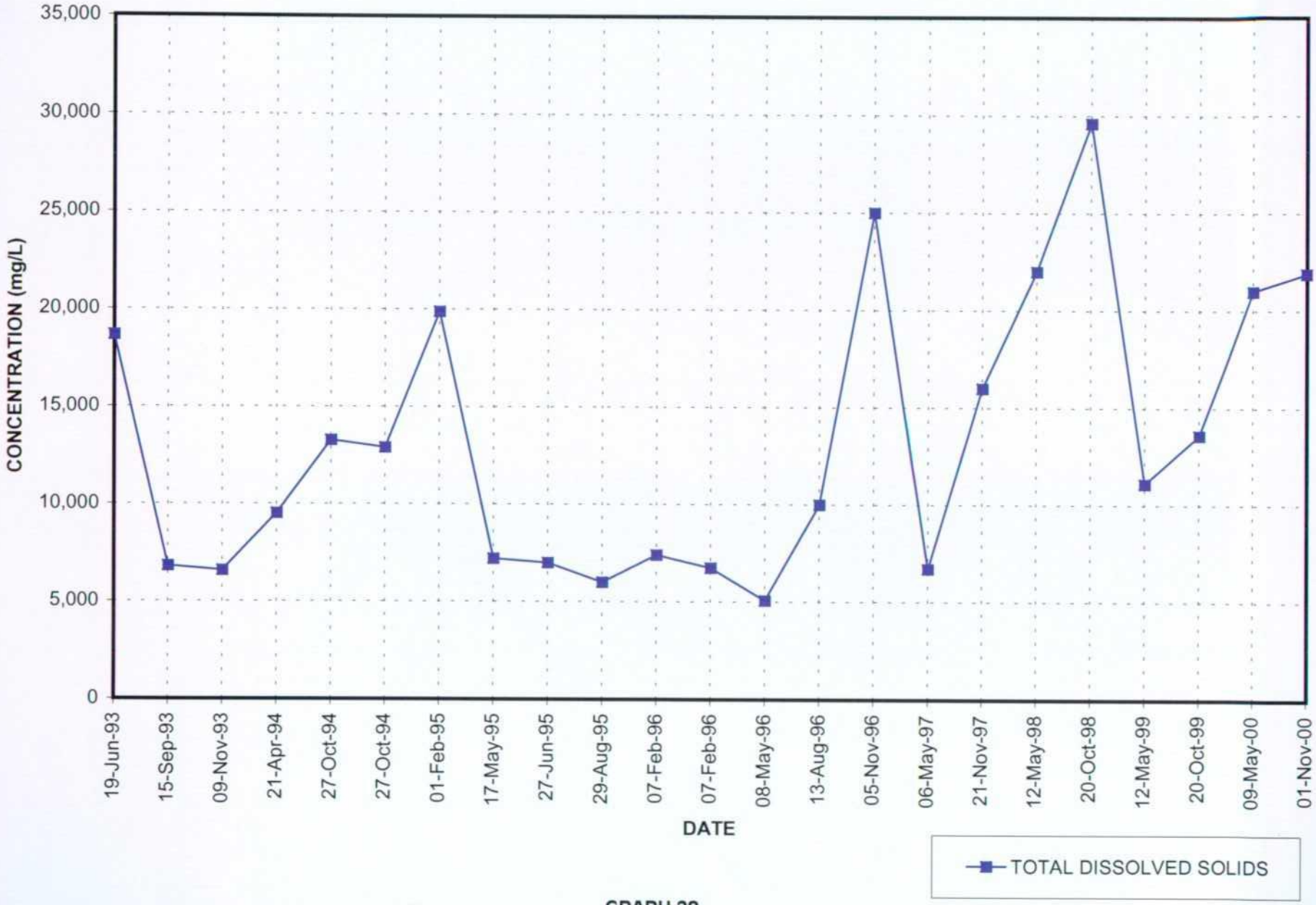
MONITOR WELL ACW-10



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

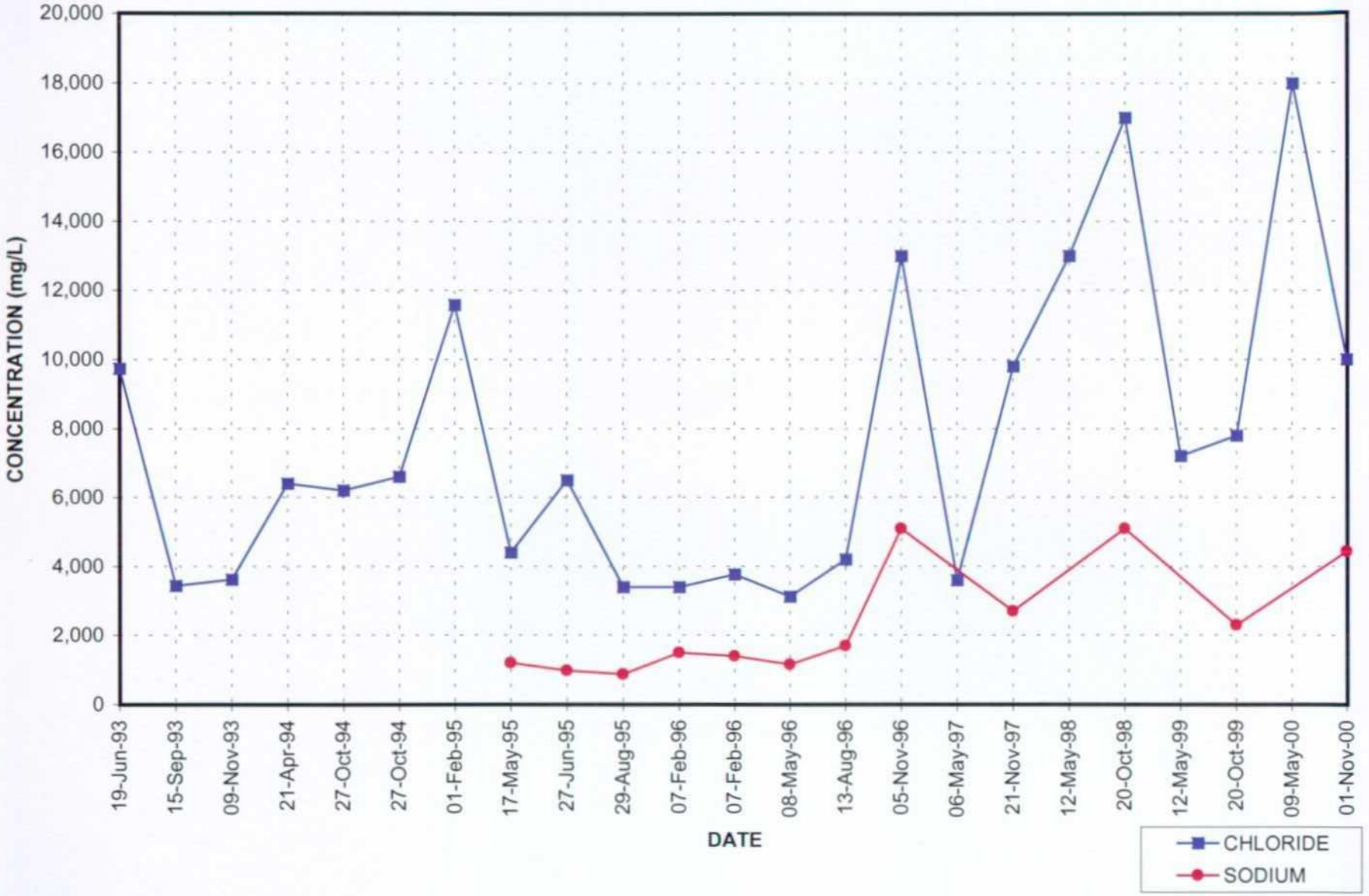
GRAPH 27

MONITOR WELL ACW-11



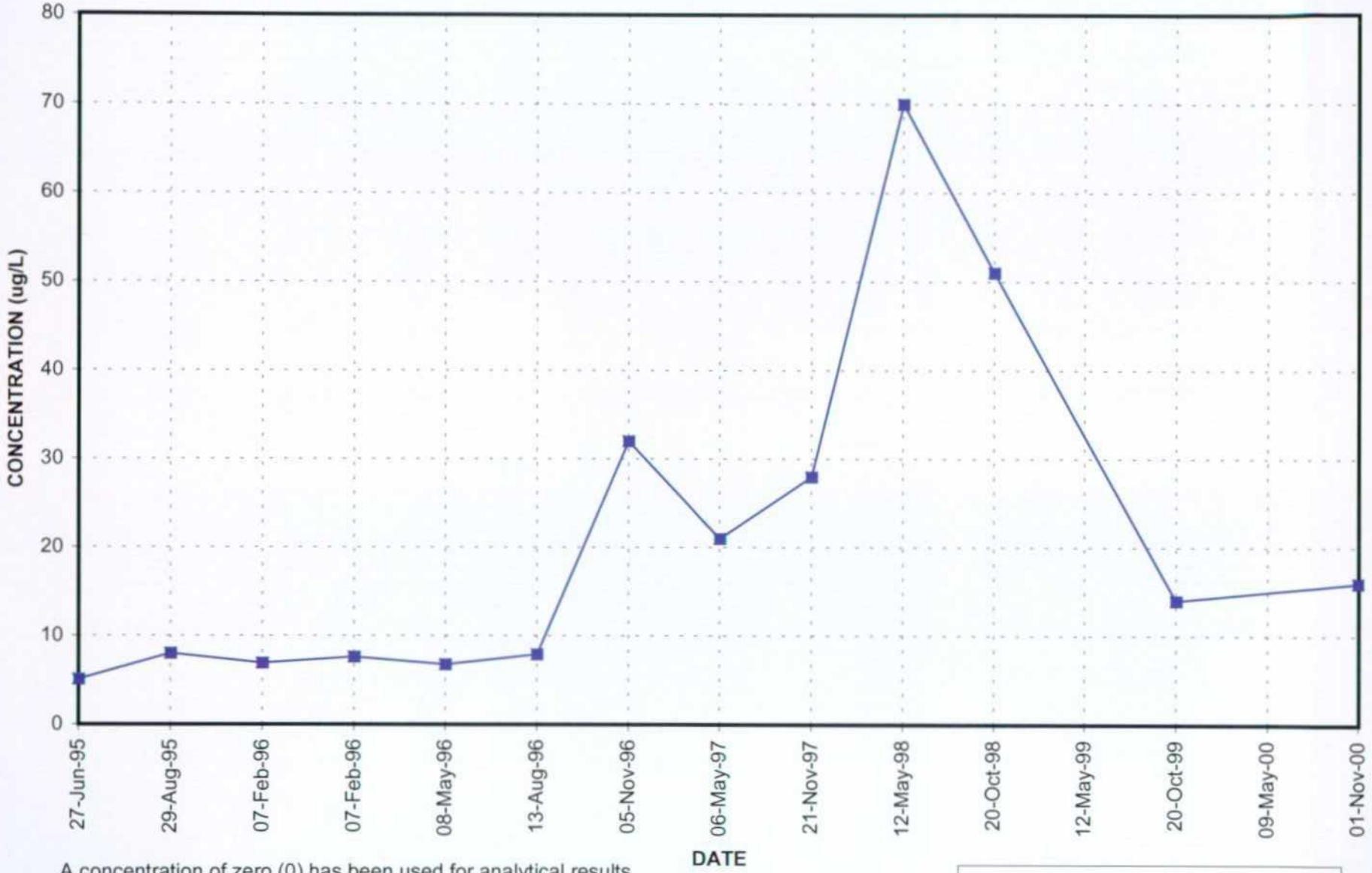
GRAPH 28

MONITOR WELL ACW-11



GRAPH 29

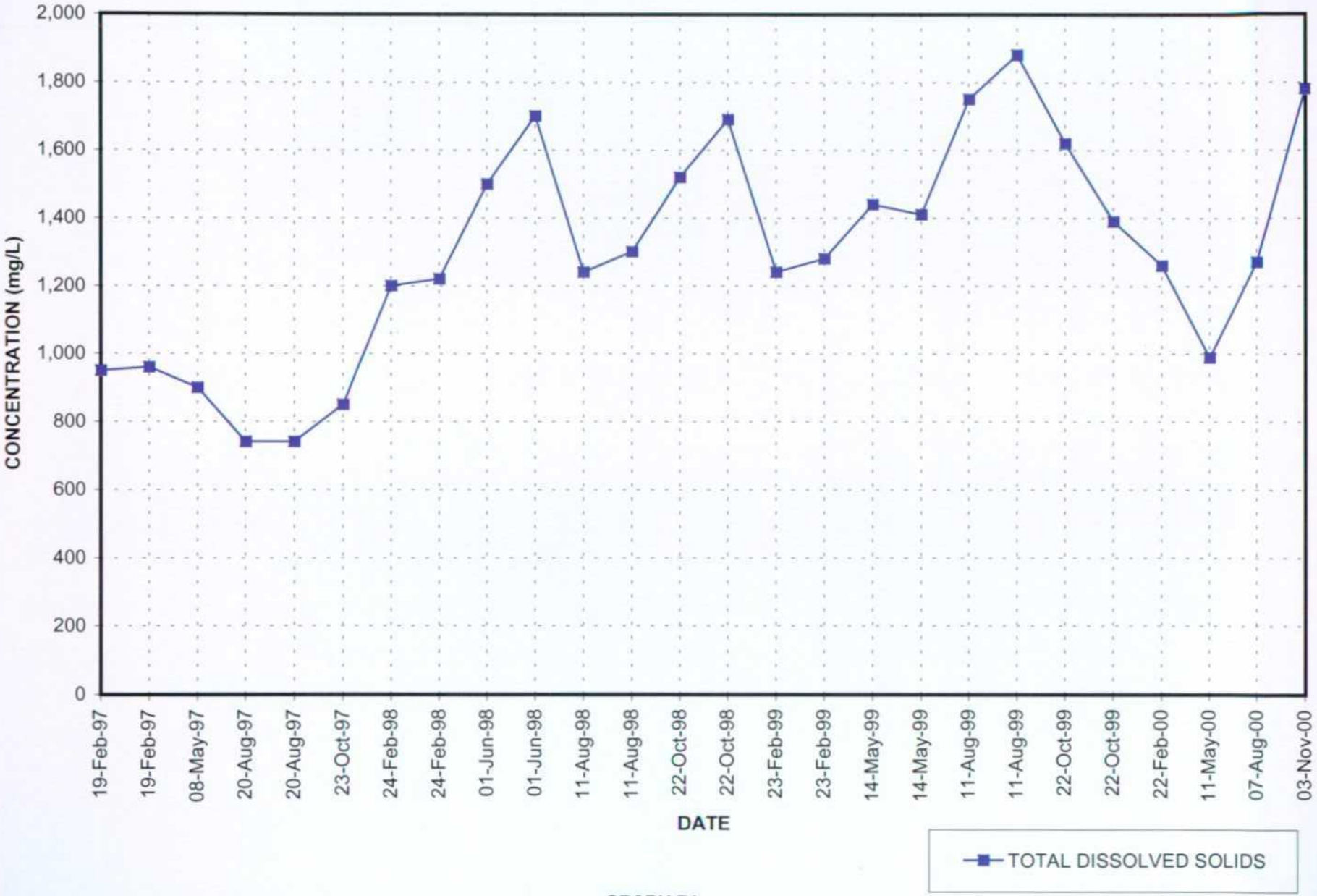
MONITOR WELL ACW-11



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

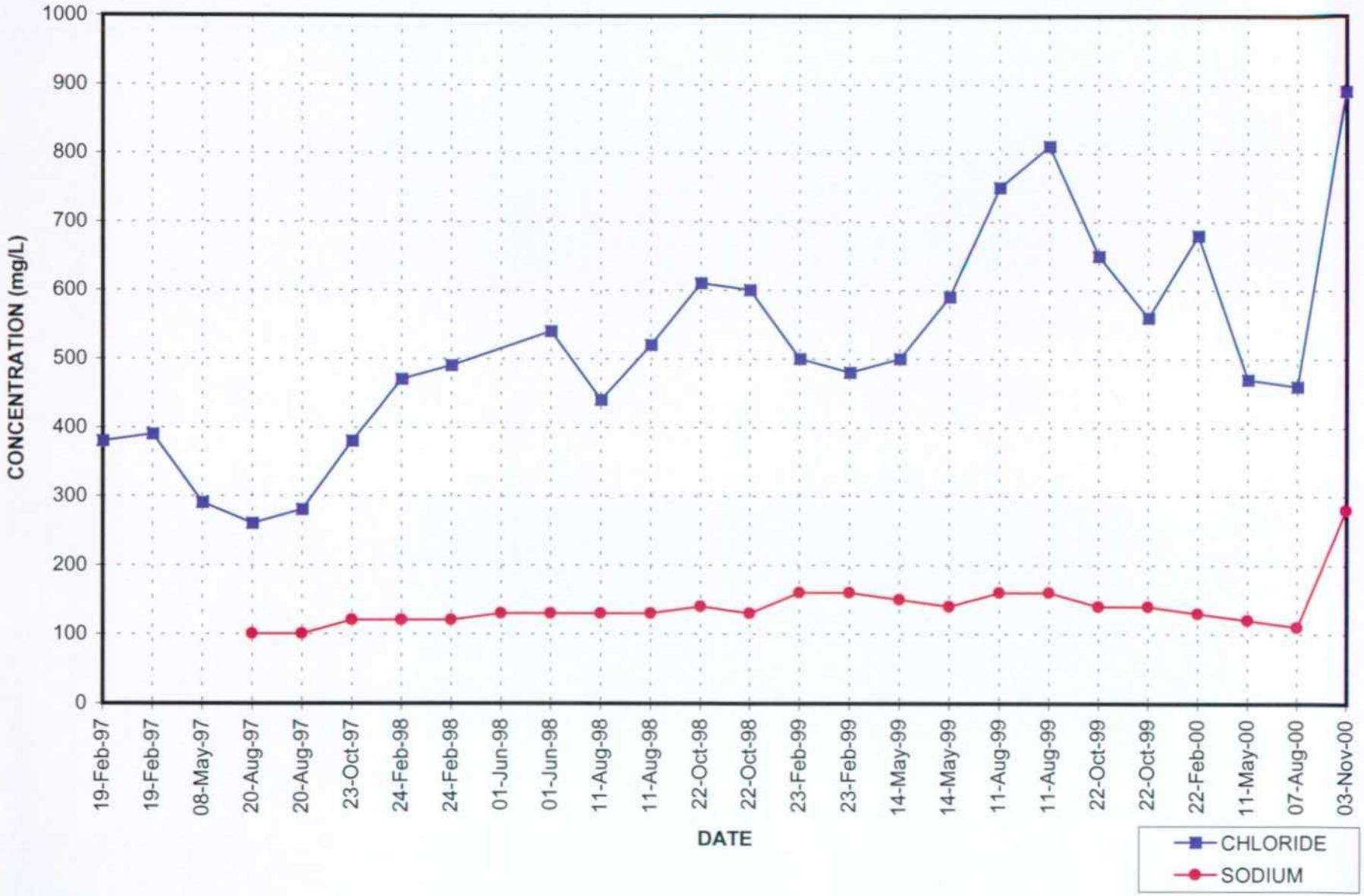
GRAPH 30

MONITOR WELL ACW-12



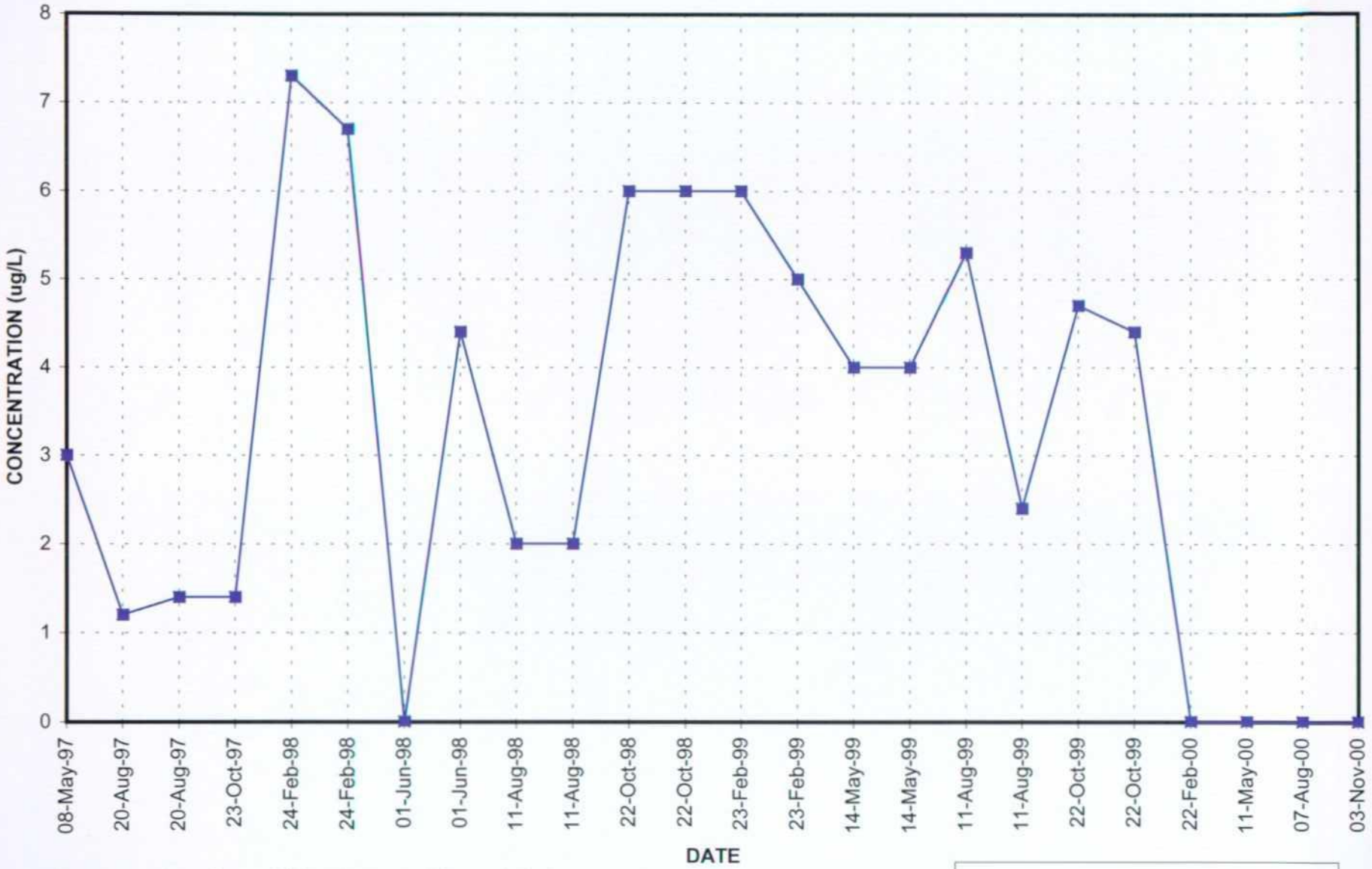
GRAPH 31

MONITOR WELL ACW-12



GRAPH 32

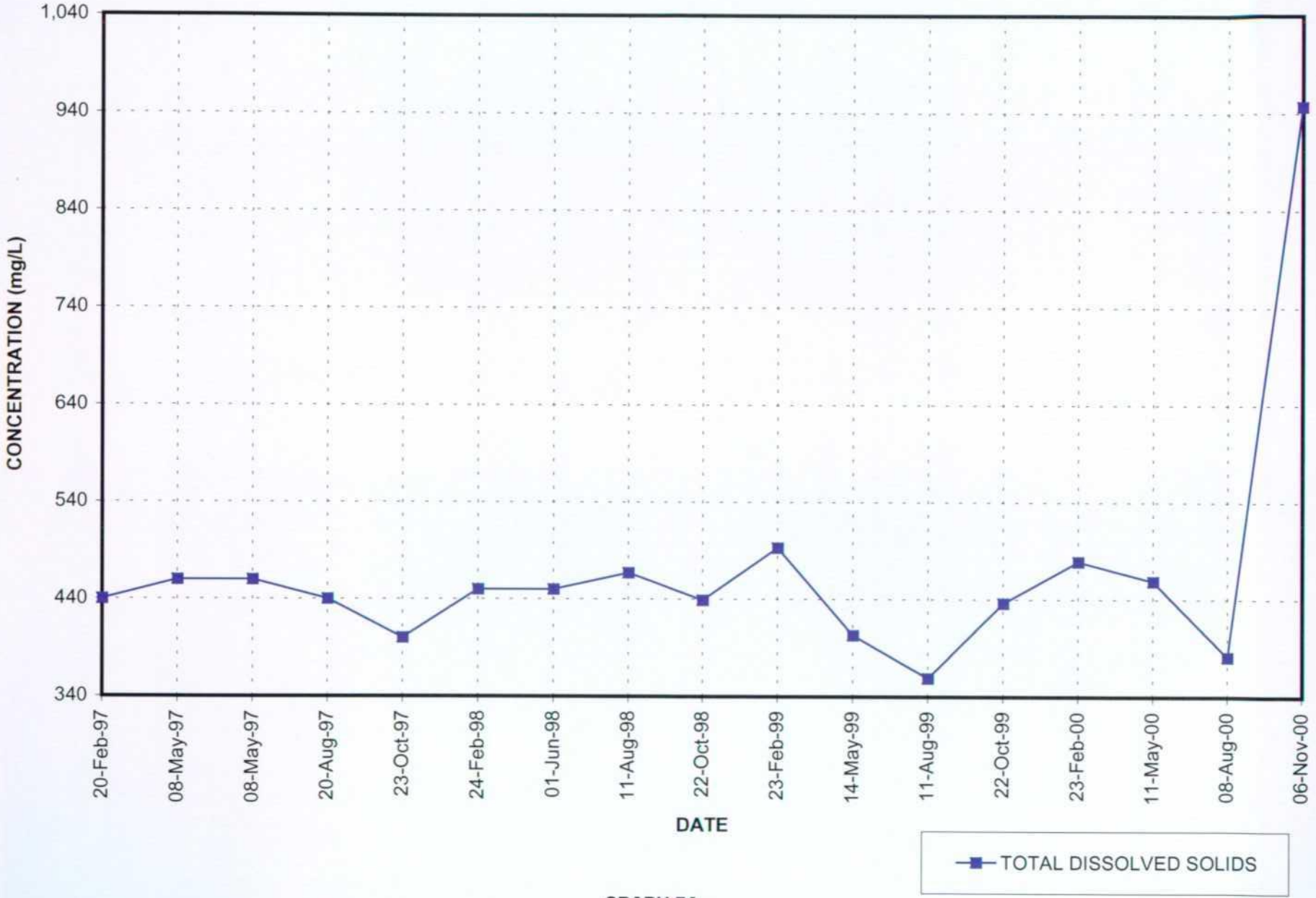
MONITOR WELL ACW-12



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

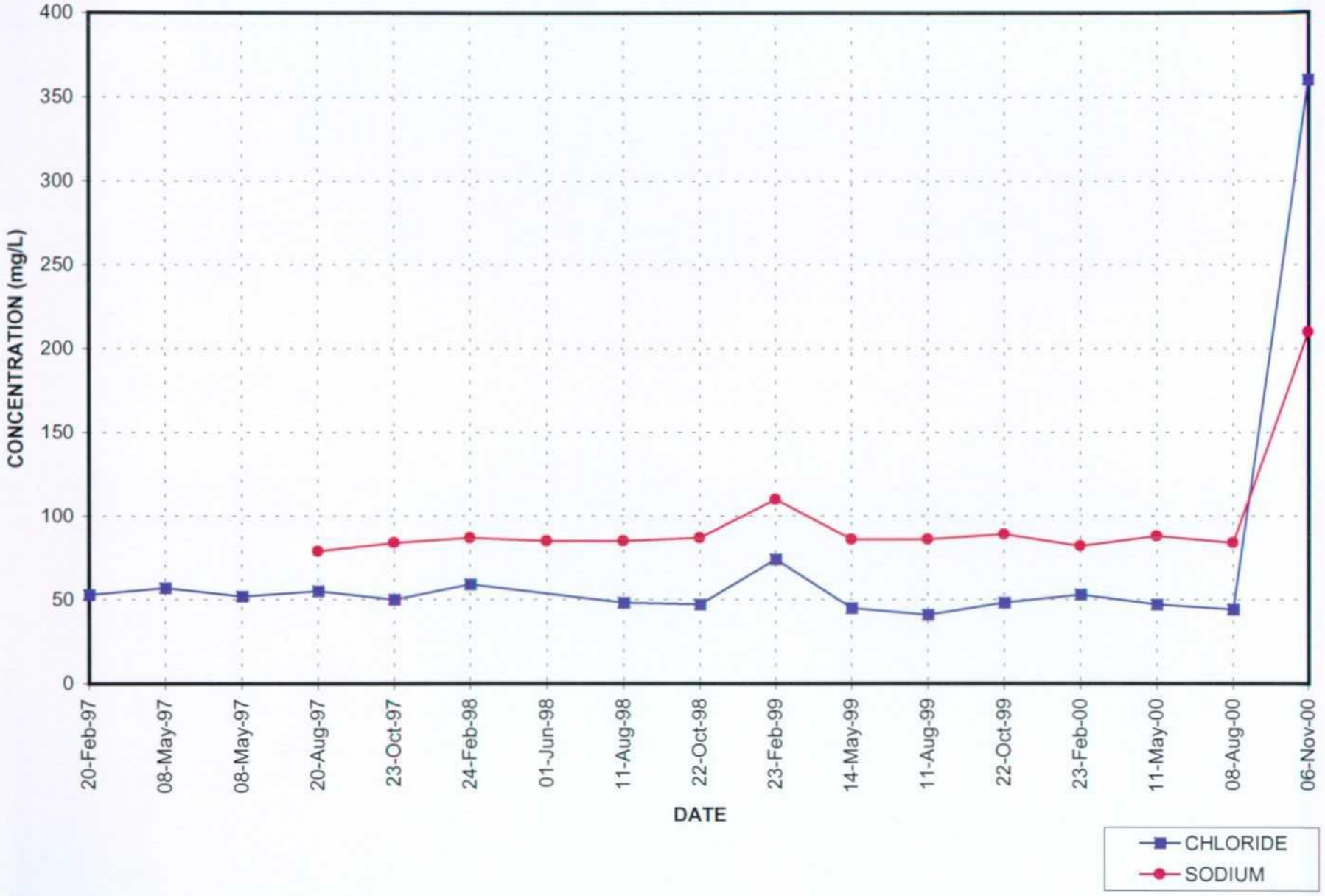
GRAPH 33

MONITOR WELL ACW-13



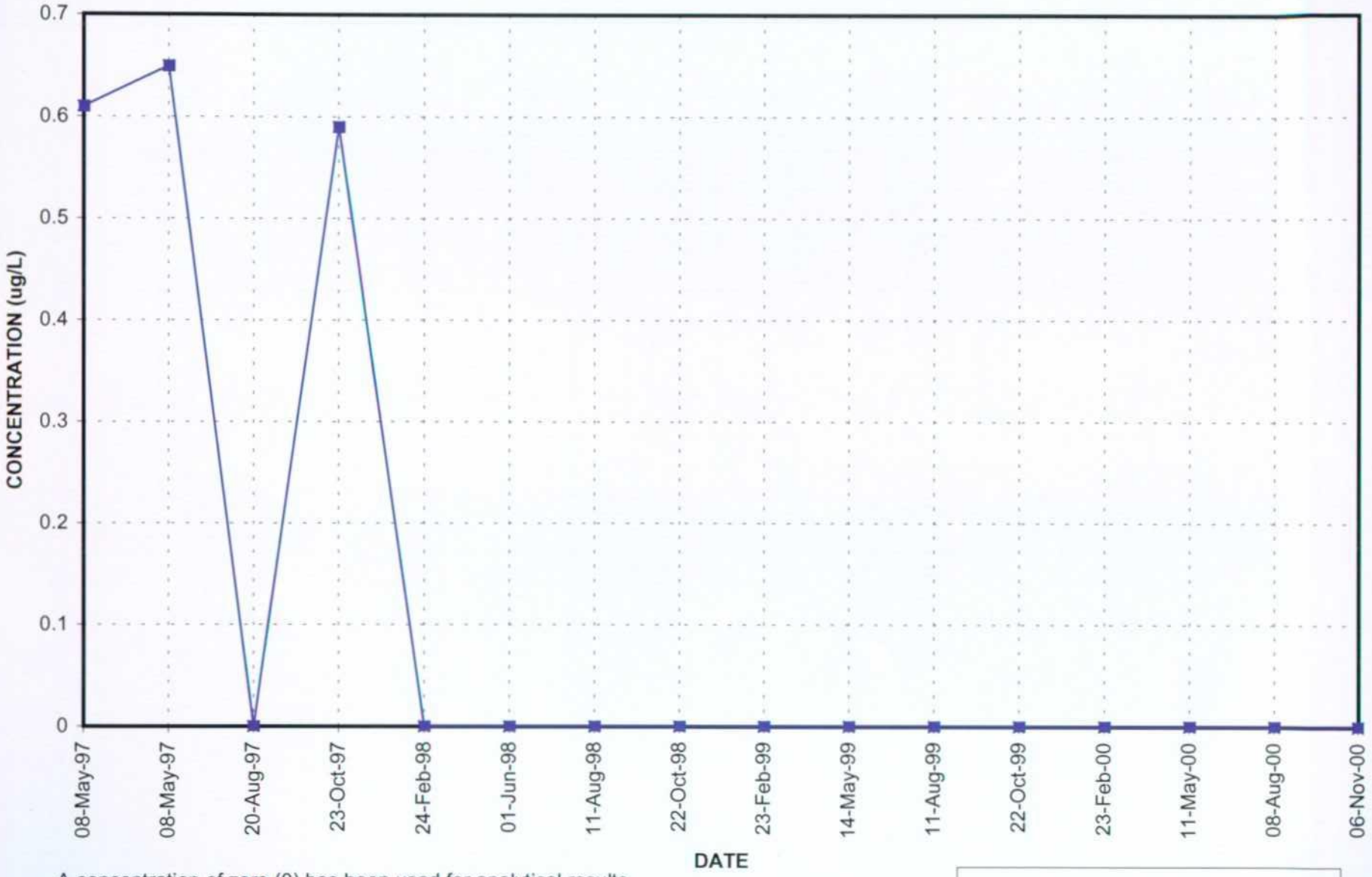
GRAPH 34

MONITOR WELL ACW-13



GRAPH 35

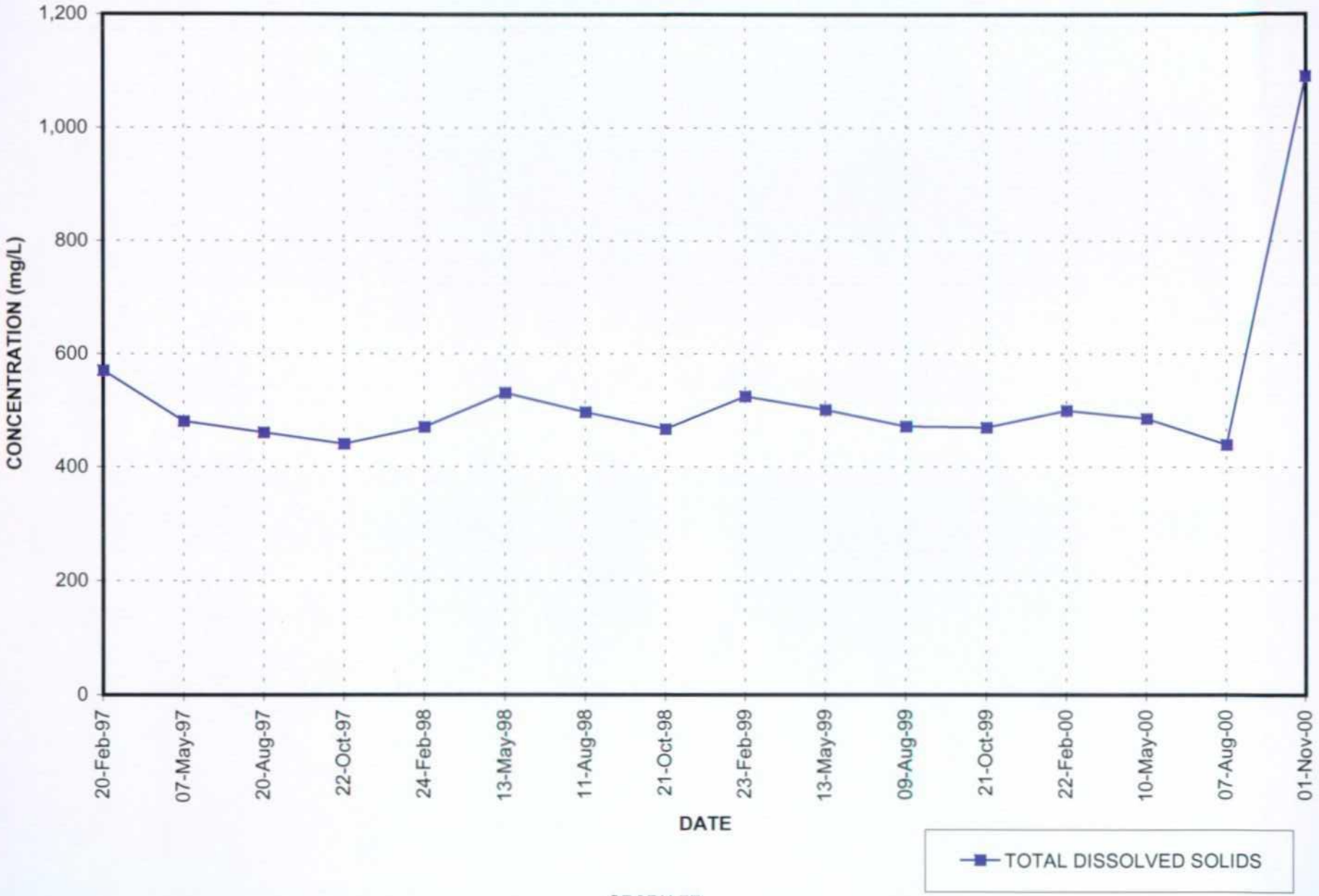
MONITOR WELL ACW-13



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

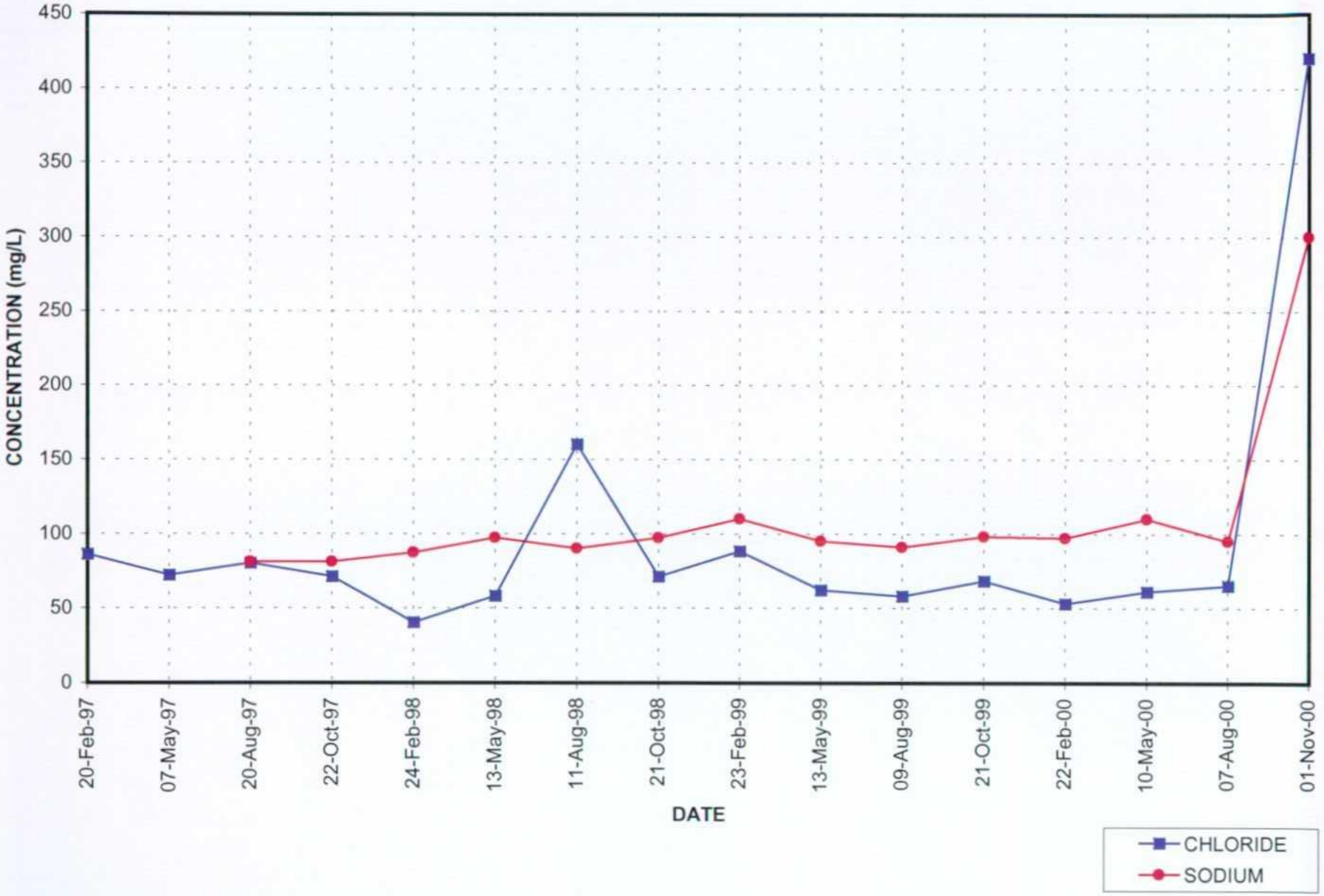
GRAPH 36

MONITOR WELL ACW-14



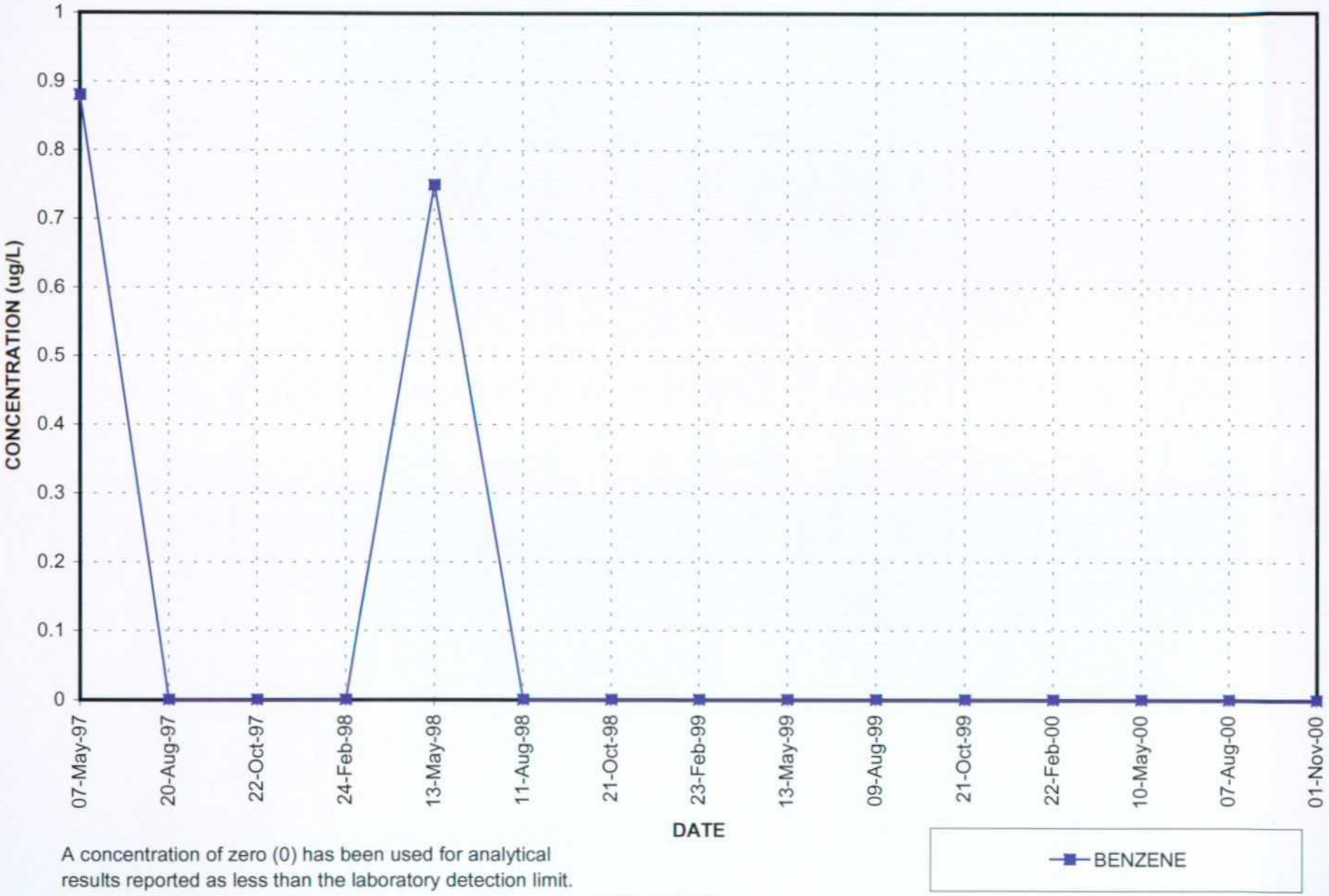
GRAPH 37

MONITOR WELL ACW-14



GRAPH 38

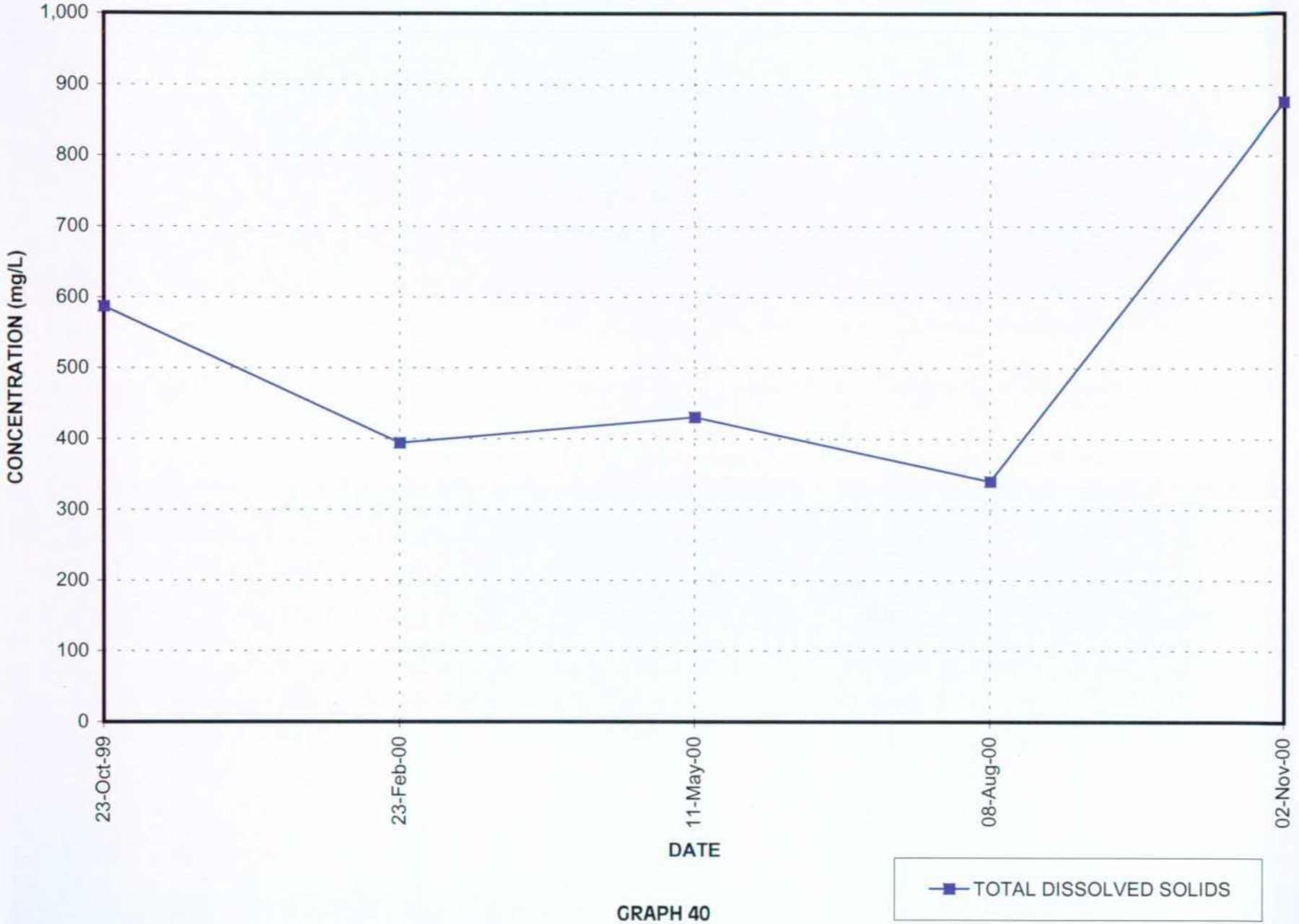
MONITOR WELL ACW-14



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

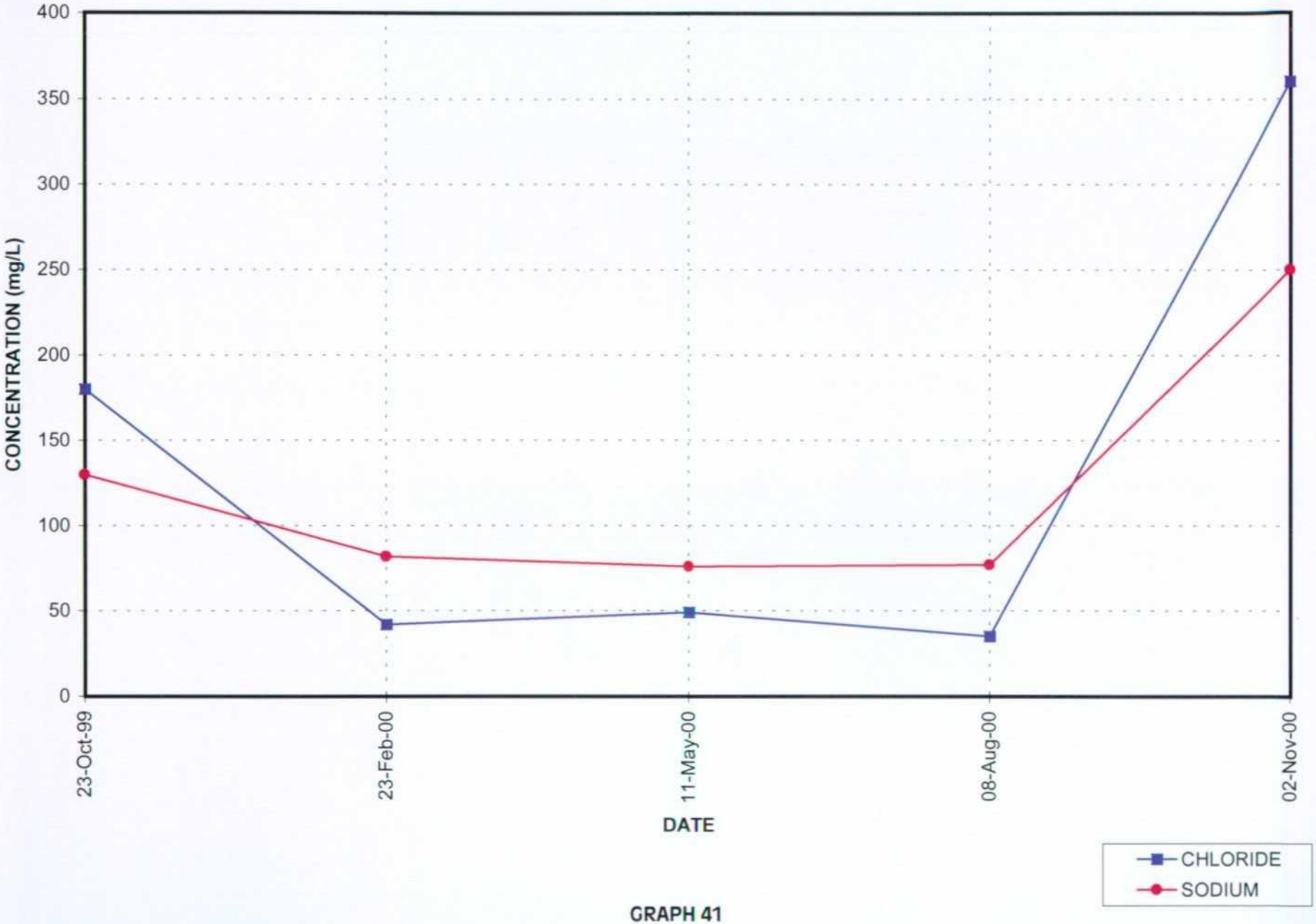
GRAPH 39

MONITOR WELL ACW-15



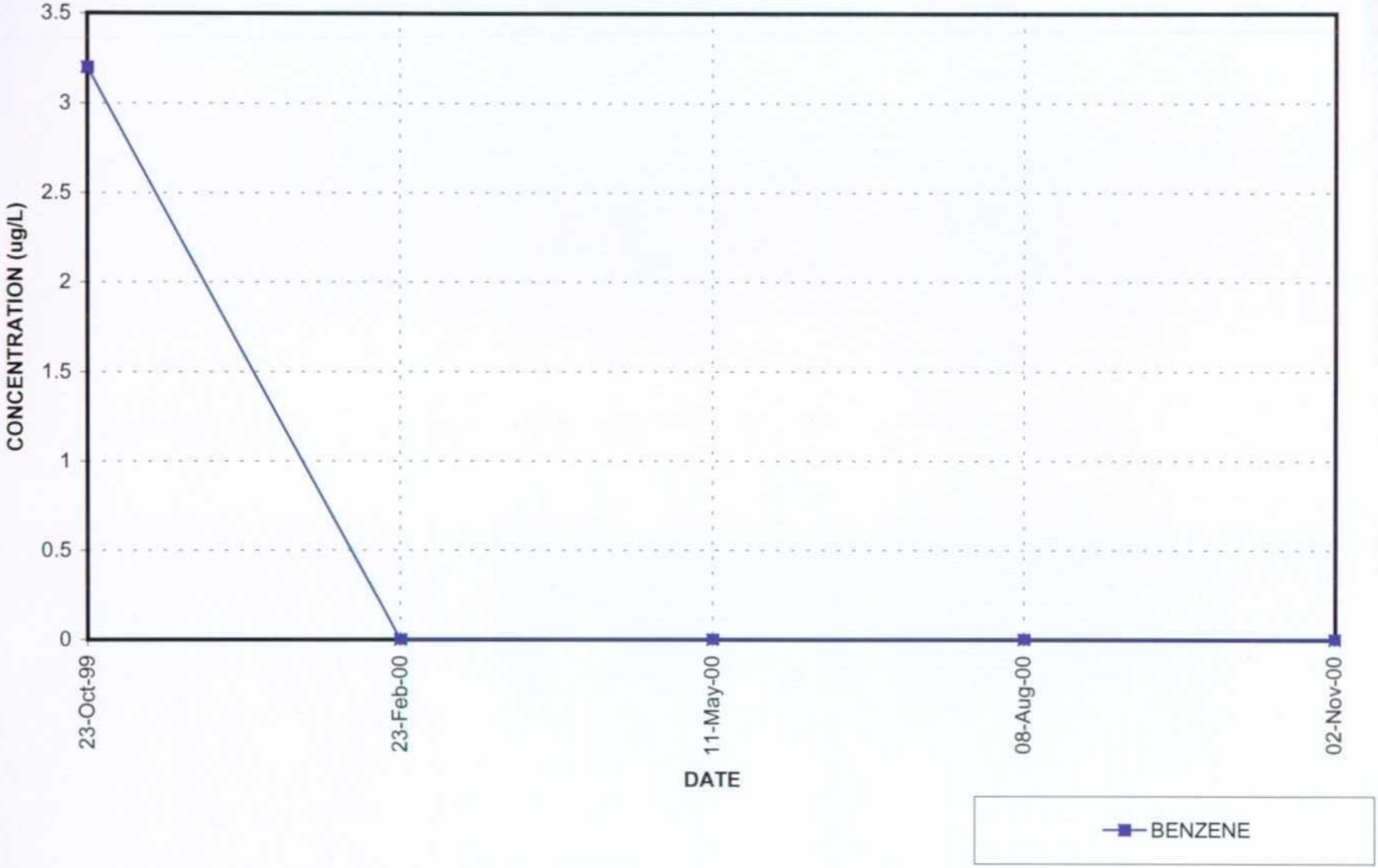
GRAPH 40

MONITOR WELL ACW-15



GRAPH 41

MONITOR WELL ACW-15



A concentration of zero (0) has been used for analytical results reported as less than the laboratory detection limit.

GRAPH 42

APPENDICES

APPENDIX A

LABORATORY ANALYTICAL REPORTS FOR GROUNDWATER SAMPLES COLLECTED DURING 2000

JAL #4 PLANT

	MONITOR WELL	INSTALLED BY	DATE INSTALLED	SCREENED INT	WELL DEPTH TD FEET	BORING RECORD
	ENSR-1	ENSR/DALLAS*	7/89	123-148	153	CONSTRUCTION
	ENSR-2	↓	↓	121-146	151	↓
	ENSR-3			123-148	151	
NW CORNER OF PIT	EPNG-1 SUP					
SOUTH OF ENG 6	EPNG-5 SUP					
SOUTH OF PLANT	EPNG-6 SUP					
NW OF PLANT	EPNG-12 SUP			175-234		NO
	ACW-1	KW BROWN	11/12/90	110-130	135.4	YES
	ACW-2	↓	11/14/90	106-126	131.4	YES
	ACW-2a		12/10/90	98-118	123.0	YES
	ACW-3		11/15/90	112-132	137.4	YES
	PTP-1		11/13/90	110-130	135.4	YES
	ACW-4	BURLINGTON ENV.	7/8/92	154-169	169	YES
	ACW-5	↓	7/10/92	105-115	115	↓
	ACW-6		7/15/92	110-120	120	
	ACW-7		7/14/92	105-115	115	
	ACW-8	BURLINGTON ENV.	6/15/93	140-160	160	YES
	ACW-9	↓	6/16/93	140-160	160	↓
	ACW-10		6/17/93	140-160	160	
	ACW-11		6/18/93	140-160	160	
FIELD TECH NOMENCLATURE ↓	ACW-12	PHILLIPS ENV.	BETWEEN 10/95 AND 9/96	150-170	170 TAKEN FROM EPEC TABLES	NO
	ACW-13	↓		153-173	173	↓
(ACW-15)	ACW-14 ✓			157-177	177	
(ACW-14)	RW-1 ✓	PHILLIPS ENV.	6/23/96	109-179	180	CONSTRUCTION
(ACW-16)	RW-2 ✓	PHILLIPS ENV.	6/30/96	105-175	177	↓
(AW-17)	ACW-15 ✓	HIGHLANDER ENV.	10/20/99	150-170	169	YES

TOPS

* ENSR/DALLAS - FORMERLY ERT

☆ ACW-2 HAD INSUFFICIENT YIELD TO DEVELOP (REPLACED BY ACW-2a)

● ACW DENOTES AQUIFER CHARACTERISATION WELL

SAMPLE KEY

SAMPLE NUMBER: M00-0020 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: EMP #3 PUMP BLANK BEFORE PURGING WELLS
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:40 SAMPLE DATE: 02/22/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0021 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: BAILER BLANK BEFORE SAMPLING WELLLS
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:50 SAMPLE DATE: 02/22/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0022 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: DOOMS PRODUCTION WELL
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:45 SAMPLE DATE: 02/22/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0023 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL ~~#ACW15~~ ACW14
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 14:00 SAMPLE DATE: 02/22/2000



SAMPLE KEY

SAMPLE NUMBER: M00-0024 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL #ACW12
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 16:05 SAMPLE DATE: 02/22/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0025 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: OXY PRODUCTION WELL
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:30 SAMPLE DATE: 02/23/2000

ORIGINAL

SAMPLE KEY

SAMPLE NUMBER: M00-0026 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL ~~#ACW17~~ ACW15
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:30 SAMPLE DATE: 02/23/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0027 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL ~~#ACW17 Dup~~. ACW15 Dup
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:30 SAMPLE DATE: 02/23/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0028 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor Well # ACW13
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 14:05 SAMPLE DATE: 02/23/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0029 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: EMP #3 AFTER PURING WELLS
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 14:45 SAMPLE DATE: 02/23/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0030 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: BAILER BLANK AFTER SAMPLING WELLS
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 14:50 SAMPLE DATE: 02/23/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0031 LOCATION: JAL #4 PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: FIELD BLANK
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:00 SAMPLE DATE: 02/23/2000

NEL LABORATORIES
Reno • Las Vegas
Phoenix • So. California

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4 NEL ORDER ID: P0002109
PROJECT NUMBER: NA

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 2/24/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

Hr - Sample was received beyond holding time for this parameter.

Jl - The batch MS and/or MSD were outside acceptance limits. The batch LCS was acceptable.

Some QA results have been flagged as follows:

Hr - Sample was received beyond holding time for this parameter.

Jl - The batch MS and/or MSD were outside acceptance limits. The batch LCS was acceptable.

Stan Van Wagenen
Laboratory Manager

3/13/00
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0020**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/22/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-01
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	47	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Magnesium	12	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Potassium	5.0	2. mg/L	1	EPA 200.7	2/25/00	2/28/00
Silica	19	5. mg/L	5	SM 4500Si-D	NA	2/28/00
Sodium	74	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0021**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/22/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-02
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Magnesium	ND	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Potassium	ND	2. mg/L	1	EPA 200.7	2/25/00	2/28/00
Silica	ND	1. mg/L	1	SM 4500Si-D	NA	2/28/00
Sodium	ND	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0023**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/22/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-03
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	62	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Magnesium	22	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Potassium	5.4	2. mg/L	1	EPA 200.7	2/25/00	2/28/00
Silica	46	5. mg/L	5	SM 4500Si-D	NA	2/28/00
Sodium	97	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0024**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/22/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-04
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	210	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Magnesium	71	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Potassium	9.2	2. mg/L	1	EPA 200.7	2/25/00	2/28/00
Silica	22	5. mg/L	5	SM 4500Si-D	NA	2/28/00
Sodium	130	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00

D.F - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0026**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/23/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-05
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	62	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Magnesium	15	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Potassium	5.7	2. mg/L	1	EPA 200.7	2/25/00	2/28/00
Silica	27	5. mg/L	5	SM 4500Si-D	NA	2/28/00
Sodium	81	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0027**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/23/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-06
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	58	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Magnesium	15	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Potassium	5.8	2. mg/L	1	EPA 200.7	2/25/00	2/28/00
Silica	24	5. mg/L	5	SM 4500Si-D	NA	2/28/00
Sodium	82	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0028**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/23/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-07
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	44	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Magnesium	14	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Potassium	6.3	2. mg/L	1	EPA 200.7	2/25/00	2/28/00
Silica	14	2. mg/L	2	SM 4500Si-D	NA	2/28/00
Sodium	82	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0029**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/23/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-08
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	46	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Magnesium	12	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Potassium	5.2	2. mg/L	1	EPA 200.7	2/25/00	2/28/00
Silica	13	2. mg/L	2	SM 4500Si-D	NA	2/28/00
Sodium	76	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0030**
DATE SAMPLED: 2/23/00
NEL SAMPLE ID: P0002109-09

TEST: **Cations by EPA 6010A**
MATRIX: Aqueous

ANALYST: JF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Magnesium	ND	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Potassium	ND	2. mg/L	1	EPA 200.7	2/25/00	2/28/00
Silica	ND	1. mg/L	1	SM 4500Si-D	NA	2/28/00
Sodium	ND	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0031**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/23/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-10
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Magnesium	ND	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Potassium	ND	2. mg/L	1	EPA 200.7	2/25/00	2/28/00
Silica	ND	1. mg/L	1	SM 4500Si-D	NA	2/28/00
Sodium	ND	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0022**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/23/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-11
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	68	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Magnesium	20	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Potassium	4.9	2. mg/L	1	EPA 200.7	2/25/00	2/28/00
Silica	12	2. mg/L	2	SM 4500Si-D	NA	2/28/00
Sodium	69	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0025**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/23/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-12
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	48	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Magnesium	16	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Potassium	4.1	2. mg/L	1	EPA 200.7	2/25/00	2/28/00
Silica	23	5. mg/L	5	SM 4500Si-D	NA	2/28/00
Sodium	71	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000228SI-BLK

TEST: **Silicon Oxide by Standard Method 3111D**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	NA	2/28/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P02111ii-BLK

TEST: **Cations by EPA 6010A**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Magnesium	ND	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00
Potassium	ND	2. mg/L	1	EPA 200.7	2/25/00	2/28/00
Sodium	ND	0.5 mg/L	1	EPA 200.7	2/25/00	2/28/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0020**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/22/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	87			1	SM 2320 B	mg/L	2/29/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	2/29/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	2/29/00
Alkalinity, Total	87		25.	1	SM 2320 B	mg/L	2/29/00
Bromide	ND		1.	5	EPA 300.0	mg/L	3/8/00
Chloride	86		10.	100	EPA 300.0	mg/L	3/8/00
Fluoride	1.8		0.4	1	SM 4500-F C	mg/L	2/29/00
Hardness, Total (as CaCO3)	170		2.	1	EPA 6010	mg/L	2/28/00
Nitrate, as N	ND		0.5	5	EPA 300.0	mg/L-N	2/24/00
pH	6.60	Hr	2.	1	EPA 150.1	pH Units	2/24/00
pH Temperature	16.6	Hr	1.	1	EPA 150.1	°C	2/24/00
Specific Conductance	683		1.	1	SM 2510 B	µS/cm	2/25/00
Sulfate	54		10.	100	EPA 300.0	mg/L	3/8/00
Total Dissolved Solids	490		15.	1	SM 2540 C	mg/L	2/25/00

D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0021**
DATE SAMPLED: 2/22/00
NEL SAMPLE ID: P0002109-02

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND			1	SM 2320 B	mg/L	2/29/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	2/29/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	2/29/00
Alkalinity, Total	ND		25.	1	SM 2320 B	mg/L	2/29/00
Bromide	ND		0.2	1	EPA 300.0	mg/L	2/24/00
Chloride	ND		0.1	1	EPA 300.0	mg/L	2/24/00
Fluoride	ND		0.4	1	SM 4500-F C	mg/L	2/29/00
Hardness, Total (as CaCO3)	ND		2.	1	EPA 6010	mg/L	2/28/00
Nitrate, as N	ND		0.1	1	EPA 300.0	mg/L-N	2/24/00
pH	5.88	Hr	2.	1	EPA 150.1	pH Units	2/24/00
pH Temperature	15.9	Hr	1.	1	EPA 150.1	°C	2/24/00
Specific Conductance	3		1.	1	SM 2510 B	µS/cm	2/25/00
Sulfate	ND		0.1	1	EPA 300.0	mg/L	2/24/00
Total Dissolved Solids	ND		15.	1	SM 2540 C	mg/L	2/25/00

D.F - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0023**
DATE SAMPLED: 2/22/00
NEL SAMPLE ID: P0002109-03

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	160		1	SM 2320 B	mg/L	2/29/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity, Total	160	25.	1	SM 2320 B	mg/L	2/29/00
Bromide	ND	1.	5	EPA 300.0	mg/L	2/24/00
Chloride	53	10.	100	EPA 300.0	mg/L	2/25/00
Fluoride	1.6	0.4	1	SM 4500-F C	mg/L	2/29/00
Hardness, Total (as CaCO3)	250	2.	1	EPA 6010	mg/L	2/28/00
Nitrate, as N	2.0	0.5	5	EPA 300.0	mg/L-N	2/24/00
pH	7.65	2.	1	EPA 150.1	pH Units	2/24/00
pH Temperature	16.1	1.	1	EPA 150.1	°C	2/24/00
Specific Conductance	738	1.	1	SM 2510 B	µS/cm	2/25/00
Sulfate	97	10.	100	EPA 300.0	mg/L	2/24/00
Total Dissolved Solids	499	15.	1	SM 2540 C	mg/L	2/25/00

D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0024**
DATE SAMPLED: 2/22/00
NEL SAMPLE ID: P0002109-04

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	130		1	SM 2320 B	mg/L	2/29/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity, Total	130	25.	1	SM 2320 B	mg/L	2/29/00
Bromide	ND	1.	5	EPA 300.0	mg/L	2/24/00
Chloride	680	50.	500	EPA 300.0	mg/L	2/29/00
Fluoride	1.1	0.4	1	SM 4500-F C	mg/L	2/29/00
Hardness, Total (as CaCO3)	800	2.	1	EPA 6010	mg/L	2/28/00
Nitrate, as N	ND	0.5	5	EPA 300.0	mg/L-N	2/24/00
pH	7.38	2.	1	EPA 150.1	pH Units	2/24/00
pH Temperature	16.4	1.	1	EPA 150.1	°C	2/24/00
Specific Conductance	1950	1.	1	SM 2510 B	µS/cm	2/25/00
Sulfate	130	5.	50	EPA 300.0	mg/L	3/1/00
Total Dissolved Solids	1260	15.	1	SM 2540 C	mg/L	2/25/00

D.F. - Dilution Factor
ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0026**
DATE SAMPLED: 2/23/00
NEL SAMPLE ID: P0002109-05

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	170		1	SM 2320 B	mg/L	2/29/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity, Total	170	25.	1	SM 2320 B	mg/L	2/29/00
Bromide	ND	1.	5	EPA 300.0	mg/L	2/24/00
Chloride	42	10.	100	EPA 300.0	mg/L	2/25/00
Fluoride	1.4	0.4	1	SM 4500-F C	mg/L	2/29/00
Hardness, Total (as CaCO3)	220	2.	1	EPA 6010	mg/L	2/28/00
Nitrate, as N	1.2	0.5	5	EPA 300.0	mg/L-N	2/24/00
pH	7.71	2.	1	EPA 150.1	pH Units	2/24/00
pH Temperature	16.6	1.	1	EPA 150.1	°C	2/24/00
Specific Conductance	665	1.	1	SM 2510 B	µS/cm	2/25/00
Sulfate	84	10.	100	EPA 300.0	mg/L	2/25/00
Total Dissolved Solids	402	15.	1	SM 2540 C	mg/L	2/25/00

D.F. - Dilution Factor
ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0027**
DATE SAMPLED: 2/23/00
NEL SAMPLE ID: P0002109-06

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D.F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	180		1	SM 2320 B	mg/L	2/29/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity, Total	180	25.	1	SM 2320 B	mg/L	2/29/00
Bromide	ND	20.	100	EPA 300.0	mg/L	2/25/00
Chloride	42	10.	100	EPA 300.0	mg/L	2/25/00
Fluoride	1.5	0.4	1	SM 4500-F C	mg/L	2/29/00
Hardness, Total (as CaCO3)	210	2.	1	EPA 6010	mg/L	2/28/00
Nitrate, as N	1.1	0.5	5	EPA 300.0	mg/L-N	2/25/00
pH	7.71	2.	1	EPA 150.1	pH Units	2/24/00
pH Temperature	16.6	1.	1	EPA 150.1	°C	2/24/00
Specific Conductance	660	1.	1	SM 2510 B	µS/cm	2/25/00
Sulfate	92	10.	100	EPA 300.0	mg/L	2/25/00
Total Dissolved Solids	394	15.	1	SM 2540 C	mg/L	2/25/00

D.F. - Dilution Factor
ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0028**
DATE SAMPLED: 2/23/00
NEL SAMPLE ID: P0002109-07

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	160		1	SM 2320 B	mg/L	2/29/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity, Total	160	25.	1	SM 2320 B	mg/L	2/29/00
Bromide	ND	1.	5	EPA 300.0	mg/L	2/25/00
Chloride	53	10.	100	EPA 300.0	mg/L	2/25/00
Fluoride	1.5	0.4	1	SM 4500-F C	mg/L	2/29/00
Hardness, Total (as CaCO3)	170	2.	1	EPA 6010	mg/L	2/28/00
Nitrate, as N	1.4	0.5	5	EPA 300.0	mg/L-N	2/25/00
pH	7.84	2.	1	EPA 150.1	pH Units	2/24/00
pH Temperature	16.9	1.	1	EPA 150.1	°C	2/24/00
Specific Conductance	697	1.	1	SM 2510 B	µS/cm	2/25/00
Sulfate	98	10.	100	EPA 300.0	mg/L	2/25/00
Total Dissolved Solids	479	15.	1	SM 2540 C	mg/L	2/25/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0029**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/23/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-08

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	95		1	SM 2320 B	mg/L	2/29/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity, Total	95	25.	1	SM 2320 B	mg/L	2/29/00
Bromide	0.63	1.	5	EPA 300.0	mg/L	2/25/00
Chloride	82	10.	100	EPA 300.0	mg/L	2/25/00
Fluoride	1.8	0.4	1	SM 4500-F C	mg/L	2/29/00
Hardness, Total (as CaCO3)	160	2.	1	EPA 6010	mg/L	2/28/00
Nitrate, as N	ND	0.5	5	EPA 300.0	mg/L-N	2/25/00
pH	6.99	2.	1	EPA 150.1	pH Units	2/24/00
pH Temperature	17.0	1.	1	EPA 150.1	°C	2/24/00
Specific Conductance	681	1.	1	SM 2510 B	µS/cm	2/25/00
Sulfate	52	10.	100	EPA 300.0	mg/L	2/25/00
Total Dissolved Solids	460	15.	1	SM 2540 C	mg/L	2/25/00

D.F. - Dilution Factor
ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0030**
DATE SAMPLED: 2/23/00
NEL SAMPLE ID: P0002109-09

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND			1	SM 2320 B	mg/L	2/29/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	2/29/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	2/29/00
Alkalinity, Total	ND		25.	1	SM 2320 B	mg/L	2/29/00
Bromide	ND		0.2	1	EPA 300.0	mg/L	2/25/00
Chloride	ND		0.1	1	EPA 300.0	mg/L	2/25/00
Fluoride	ND		0.4	1	SM 4500-F C	mg/L	2/29/00
Hardness, Total (as CaCO3)	ND		2.	1	EPA 6010	mg/L	2/28/00
Nitrate, as N	ND		0.1	1	EPA 300.0	mg/L-N	2/25/00
pH	5.88		2.	1	EPA 150.1	pH Units	2/24/00
pH Temperature	17.3		1.	1	EPA 150.1	°C	2/24/00
Specific Conductance	3		1.	1	SM 2510 B	µS/cm	2/25/00
Sulfate	ND	JI	0.1	1	EPA 300.0	mg/L	2/25/00
Total Dissolved Solids	ND		15.	1	SM 2540 C	mg/L	2/25/00

D.F. - Dilution Factor
ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0031**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/23/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-10

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity, Total	ND	25.	1	SM 2320 B	mg/L	2/29/00
Bromide	ND	0.2	1	EPA 300.0	mg/L	2/25/00
Chloride	ND	0.1	1	EPA 300.0	mg/L	2/25/00
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	2/29/00
Hardness, Total (as CaCO3)	ND	2.	1	EPA 6010	mg/L	2/28/00
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	2/25/00
pH	6.04	2.	1	EPA 150.1	pH Units	2/24/00
pH Temperature	17.4	1.	1	EPA 150.1	°C	2/24/00
Specific Conductance	1	1.	1	SM 2510 B	µS/cm	2/25/00
Sulfate	ND	0.1	1	EPA 300.0	mg/L	2/25/00
Total Dissolved Solids	ND	15.	1	SM 2540 C	mg/L	2/25/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0022**
DATE SAMPLED: 2/23/00
NEL SAMPLE ID: P0002109-11

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	140		1	SM 2320 B	mg/L	2/29/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity, Total	140	25.	1	SM 2320 B	mg/L	2/29/00
Bromide	0.58	1.	5	EPA 300.0	mg/L	2/25/00
Chloride	130	10.	100	EPA 300.0	mg/L	2/25/00
Fluoride	1.1	0.4	1	SM 4500-F C	mg/L	2/29/00
Hardness, Total (as CaCO3)	250	2.	1	EPA 6010	mg/L	2/28/00
Nitrate, as N	0.72	0.5	5	EPA 300.0	mg/L-N	2/25/00
pH	7.92	2.	1	EPA 150.1	pH Units	2/24/00
pH Temperature	17.4	1.	1	EPA 150.1	°C	2/24/00
Specific Conductance	814	1.	1	SM 2510 B	µS/cm	2/25/00
Sulfate	54	10.	100	EPA 300.0	mg/L	2/25/00
Total Dissolved Solids	506	15.	1	SM 2540 C	mg/L	2/25/00

D.F. - Dilution Factor
ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0025**
DATE SAMPLED: 2/23/00
NEL SAMPLE ID: P0002109-12

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	190		1	SM 2320 B	mg/L	2/29/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity, Total	190	25.	1	SM 2320 B	mg/L	2/29/00
Bromide	ND	1.	5	EPA 300.0	mg/L	2/25/00
Chloride	38	10.	100	EPA 300.0	mg/L	2/25/00
Fluoride	1.1	0.4	1	SM 4500-F C	mg/L	2/29/00
Hardness, Total (as CaCO3)	180	2.	1	EPA 6010	mg/L	2/28/00
Nitrate, as N	1.2	0.5	5	EPA 300.0	mg/L-N	2/25/00
pH	7.85	2.	1	EPA 150.1	pH Units	2/24/00
pH Temperature	17.6	1.	1	EPA 150.1	°C	2/24/00
Specific Conductance	630	1.	1	SM 2510 B	µS/cm	2/25/00
Sulfate	77	10.	100	EPA 300.0	mg/L	2/25/00
Total Dissolved Solids	392	15.	1	SM 2540 C	mg/L	2/25/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	*000224IC-BLK*

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	2/24/00
Chloride	ND	0.1	1	EPA 300.0	mg/L	2/24/00
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	2/24/00
Sulfate	ND	0.1	1	EPA 300.0	mg/L	2/24/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000225IC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	2/25/00
Chloride	ND	0.1	1	EPA 300.0	mg/L	2/25/00
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	2/25/00
Sulfate	ND	0.1	1	EPA 300.0	mg/L	2/25/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000225TDS-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	2/25/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000225TDS2-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	2/25/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000229ALK-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity, Total	ND	25	1	SM 2320 B	mg/L	2/29/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000229ALK2-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	2/29/00
Alkalinity, Total	ND	25	1	SM 2320 B	mg/L	2/29/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000229F-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	2/29/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000308IC2-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	3/8/00
Sulfate	ND	0.1	1	EPA 300.0	mg/L	3/8/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000308IC6-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	3/8/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0020**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/22/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-01

TEST: **BTEX by EPA SW846 Method 8021B, Dec. 1996**

METHOD:	EPA 8021B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	2/29/00
DILUTION:	1	ANALYZED:	2/29/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	7.5 µg/L	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a.a.a-Trifluorotoluene	107	75 - 125

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0021**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/22/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-02

TEST: **BTEX by EPA SW846 Method 8021B, Dec. 1996**

METHOD:	EPA 8021B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	2/29/00
DILUTION:	1	ANALYZED:	2/29/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	110	75 - 125

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0023**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/22/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-03

TEST: **BTEX by EPA SW846 Method 8021B, Dec. 1996**

METHOD:	EPA 8021B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	2/29/00
DILUTION:	1	ANALYZED:	2/29/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a.a.a-Trifluorotoluene	108	75 - 125

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0024**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/22/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-04

TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	2/29/00
DILUTION:	1	ANALYZED:	2/29/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	104	75 - 125

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0026**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/23/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-05
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	*CHG - Las Vegas Division*
MATRIX:	Aqueous	EXTRACTED:	2/29/00
DILUTION:	1	ANALYZED:	2/29/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a.a.a-Trifluorotoluene	108	75 - 125

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0027**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/23/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-06

TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	2/29/00
DILUTION:	1	ANALYZED:	2/29/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	103	75 - 125

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0028**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/23/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-07
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	2/29/00
DILUTION:	1	ANALYZED:	2/29/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	101	75 - 125

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0029**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/23/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-08

TEST: **BTEX by EPA SW846 Method 8021B, Dec. 1996**

METHOD:	*EPA 8021B*	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	2/29/00
DILUTION:	1	ANALYZED:	2/29/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	2.5 µg/L	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a.a.a-Trifluorotoluene	100	75 - 125

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0030**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/23/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-09

TEST: **BTEX by EPA SW846 Method 8021B, Dec. 1996**

METHOD:	EPA 8021B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	2/29/00
DILUTION:	1	ANALYZED:	2/29/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	102	75 - 125

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0031**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/23/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-10
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	2/29/00
DILUTION:	1	ANALYZED:	2/29/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	98	75 - 125

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0022**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/23/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-11

TEST: **BTEX by EPA SW846 Method 8021B, Dec. 1996**

METHOD:	EPA 8021B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	2/29/00
DILUTION:	1	ANALYZED:	2/29/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	104	75 - 125

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0025**
PROJECT ID:	JAL #4	DATE SAMPLED:	2/23/00
PROJECT #:	NA	NEL SAMPLE ID:	P0002109-12

TEST: **BTEX by EPA SW846 Method 8021B, Dec. 1996**

METHOD:	EPA 8021B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	2/29/00
DILUTION:	1	ANALYZED:	2/29/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	105	75 - 125

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000229BX8021-BLK
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	2/29/00
		ANALYZED:	2/29/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	97	75 - 125

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
7.00 Buffer	000224pH-LCS	7	7	100	99 - 101	
7.00 Buffer	000224pH-LCSD	7	7.03	100	99 - 101	0.4

- Results outside QC Acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Specific Conductance	000225 COND-LCS	1412	1411	100	95 - 105	

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	000225TDS-LCS	1000	973	97	80 - 120	

- Results outside QC Acceptance criteria.

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	000225TDS2-LCS	1000	973	97	80 - 120	

- Results outside QC Acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Drinking Water

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Alkalinity, Total	000229ALK-LCS	125	123.76	99	85 - 115	

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Alkalinity, Total	000229ALK2-LCS	125	123.74	99	85 - 115	
Alkalinity, Total	000229ALK2-LCSD	125	122.52	98	85 - 115	1.

- Results outside QC Acceptance criteria.

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **BTEX by EPA SW846 Method 8021B, Dec. 1996**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Benzene	000229BX8021-LCS	50	53	106	85 - 115	
Benzene	000229BX8021-LCSD	50	51	102	80 - 120	3.8
Benzene	P0002109-09-MS	50	52	104	70 - 130	
Benzene	P0002109-09-MSD	50	51	102	70 - 130	1.9
Toluene	000229BX8021-LCS	50	54	108	85 - 115	
Toluene	000229BX8021-LCSD	50	50	100	80 - 120	7.7
Toluene	P0002109-09-MS	50	51	102	70 - 130	
Toluene	P0002109-09-MSD	50	50	100	70 - 130	2.
Ethylbenzene	000229BX8021-LCS	50	53	106	85 - 115	
Ethylbenzene	000229BX8021-LCSD	50	49	98	80 - 120	7.8
Ethylbenzene	P0002109-09-MS	50	50	100	70 - 130	
Ethylbenzene	P0002109-09-MSD	50	49	98	70 - 130	2.
Total Xylenes	000229BX8021-LCS	150	160	107	85 - 115	
Total Xylenes	000229BX8021-LCSD	150	147	98	80 - 120	8.5
Total Xylenes	P0002109-09-MS	150	149	99	70 - 130	
Total Xylenes	P0002109-09-MSD	150	147	98	70 - 130	1.4

- Results outside QC Acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Drinking Water

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Fluoride	000229F-LCS	2	2.048	102	85 - 115	
Fluoride	P0002109-09-MS	1	1.1	110	80 - 120	
Fluoride	P0002109-09-MSD	1	1.2	120	80 - 120	8.7

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	000229IC-LCS	100	102	102	90 - 110	
Chloride	000229IC-LCSD	100	104	104	90 - 110	1.9
Chloride	L0002060-03-MS	100	132	98	80 - 120	

- Results outside QC Acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Drinking Water

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Sulfate	000301IC-LCS	100	105	105	90 - 110	
Sulfate	000301IC-LCSD	100	106	106	90 - 110	0.9
Sulfate	P0002045-02-MS	100	233	93	80 - 120	
Sulfate	P0002045-02-MSD	100	227	87	80 - 120	6.7

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	000308IC2-LCS	100	103	103	90 - 110	
Chloride	000308IC2-LCSD	100	103	103	90 - 110	0.
Chloride	P0002109-01-MS	100	186	100	80 - 120	
Chloride	P0002109-01-MSD	100	180	94	80 - 120	6.2
Sulfate	000308IC2-LCS	100	106	106	90 - 110	
Sulfate	000308IC2-LCSD	100	104	104	90 - 110	1.9
Sulfate	P0002109-01-MS	100	154	100	80 - 120	
Sulfate	P0002109-01-MSD	100	150	96	80 - 120	4.1

- Results outside QC Acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Bromide	000308IC6-LCS	100	103	103	90 - 110	
Bromide	000308IC6-LCSD	100	103	103	90 - 110	0.
Bromide	P0002109-01-MS	100	106	106	80 - 120	
Bromide	P0002109-01-MSD	100	104	104	80 - 120	1.9

- Results outside QC Acceptance criteria.

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Jal #4
PROJECT #: NA
TEST: **Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Silica	000228SI-LCS	5	4.72	94	85 - 115	
Silica	P0002109-02-MS	5	4.81	96	75 - 125	
Silica	P0002109-02-MSD	5	4.69	94	75 - 125	2.5

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Jal #4
PROJECT #: NA
TEST: **Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Silver	P0002111-03-MSD	0.5	0.487	97	75 - 125	9.7
Sodium	P02111ii-LCS	20	19.6	98	85 - 115	
Sodium	P0002111-03-MS	20	39.9	99	75 - 125	
Sodium	P0002111-03-MSD	20	39.3	96	75 - 125	3.1
Zinc	P02111ii-LCS	0.5	0.493	99	85 - 115	
Zinc	P0002111-03-MS	0.5	0.536	107	75 - 125	
Zinc	P0002111-03-MSD	0.5	0.528	106	75 - 125	1.5

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Jal #4
PROJECT #: NA
TEST: **Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Aluminum	P02111ii-LCS	1	1.02	102	85 - 115	
Aluminum	P0002111-03-MS	1	1.01	101	75 - 125	
Aluminum	P0002111-03-MSD	1	0.949	95	75 - 125	1.7
Barium	P02111ii-LCS	1	0.971	97	85 - 115	
Barium	P0002111-03-MS	1	1.02	100	75 - 125	
Barium	P0002111-03-MSD	1	1.02	100	75 - 125	0.
Beryllium	P02111ii-LCS	0.1	0.0948	95	85 - 115	
Beryllium	P0002111-03-MS	0.1	0.0984	98	75 - 125	
Beryllium	P0002111-03-MSD	0.1	0.098	98	75 - 125	0.4
Cadmium	P02111ii-LCS	0.2	0.198	99	85 - 115	
Cadmium	P0002111-03-MS	0.2	0.208	104	75 - 125	
Cadmium	P0002111-03-MSD	0.2	0.206	103	75 - 125	1.
Calcium	P02111ii-LCS	20	19.5	98	85 - 115	
Calcium	P0002111-03-MS	20	263	115	75 - 125	
Calcium	P0002111-03-MSD	20	266	130	75 - 125	12.2
Chromium	P02111ii-LCS	0.5	0.498	100	85 - 115	
Chromium	P0002111-03-MS	0.5	0.514	103	75 - 125	
Chromium	P0002111-03-MSD	0.5	0.508	102	75 - 125	1.2
Copper	P02111ii-LCS	0.5	0.48	96	85 - 115	
Copper	P0002111-03-MS	0.5	0.499	100	75 - 125	
Copper	P0002111-03-MSD	0.5	0.498	100	75 - 125	0.2
Iron	P02111ii-LCS	1	0.936	94	85 - 115	
Iron	P0002111-03-MS	1	0.96	96	75 - 125	
Iron	P0002111-03-MSD	1	0.948	95	75 - 125	1.3
Magnesium	P02111ii-LCS	20	18.9	95	85 - 115	
Magnesium	P0002111-03-MS	20	88.2	101	75 - 125	
Magnesium	P0002111-03-MSD	20	85.1	85	75 - 125	16.6
Manganese	P02111ii-LCS	0.5	0.501	100	85 - 115	
Manganese	P0002111-03-MS	0.5	0.517	103	75 - 125	
Manganese	P0002111-03-MSD	0.5	0.512	102	75 - 125	1.
Nickel	P02111ii-LCS	1	0.978	98	85 - 115	
Nickel	P0002111-03-MS	1	1	100	75 - 125	
Nickel	P0002111-03-MSD	1	0.996	100	75 - 125	0.4
Potassium	P02111ii-LCS	20	19.9	99	85 - 115	
Potassium	P0002111-03-MS	20	21.7	109	75 - 125	
Potassium	P0002111-03-MSD	20	21.7	109	75 - 125	0.
Silver	P02111ii-LCS	0.5	0.486	97	85 - 115	
Silver	P0002111-03-MS	0.5	0.442	88	75 - 125	

ND - Not Detected

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EL PASO NATURAL GAS

Vegas Head

CHAIN OF CUSTODY RECORD

3/2/00

P0002109

Page _____ of _____

PROJECT NUMBER	PROJECT NAME	SAMPLERS: (Signature)	DATE:
	JOA #4		2/23/00

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: Cations Anions	REQUESTED ANALYSIS: SEE ATTACHED	REMARKS
01	2/22/00	1010	H_2O	MOO-0020	6		X	X	Received extra Sample for MOO-0028. TF 2/29/00
02	2/22/00	1050	H_2O	MOO-0021	6		X	X	
03	2/22/00	1400	H_2O	MOO-0023	6		X	X	Run BTEX by 8021 per Stan.
04	2/22/00	1605	H_2O	MOO-0024	6		X	X	
05	2/23/00	1130	H_2O	MOO-0026	5		X	X	1st & 4 pH's out of Hold. (Time Zone) OK to Run per Kristina
06	2/23/00	1130	H_2O	MOO-0027	5		X	X	
07	2/23/00	1405	H_2O	MOO-0028	5		X	X	
08	2/23/00	1445	H_2O	MOO-0029	5		X	X	Custody Seal Intact: Y N (None) Temp: 4°C
09	2/23/00	1450	H_2O	MOO-0030	5		X	X	Condition when received: Poor (Good)
10	2/23/00	1500	H_2O	MOO-0031	5		X	X	

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	2/23/00 1730	VIA Fed Ex Talia Foter 0940			
		2/24/00			
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

White - *Testing Laboratory* Canary - *EPNG Lab* Pink - *Field Sampler*

FM-08-0566 (Rev. 4 98)

EL PASO NATURAL GAS

Vegas Lead 3/2/00 P0002109

CHAIN OF CUSTODY RECORD

Page ____ of ____

PROJECT NUMBER	PROJECT NAME				TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS						CONTRACT LABORATORY
	JAL #4												
SAMPLERS: (Signature)	DATE: 9/22/00												
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER			BTEX + Anions	SEE ATTACHED					REMARKS
11	9/22/00	1245	H2O	M00-0022	6		X	X					
12	9/23/00	1030	H2O	M00-0025	6		X	X					

Custody Seal Intact Y N None Temp: 4°c
Condition when received: Poor Good

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	9/23/00 1730	VIA FedEx Talin Foter 0940			
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO :

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

White - *Testing Laboratory* Canary - *EPNG Lab* Pink - *Field Sampler*

FM-08-0566 (Rev 4-98)

SAMPLE KEY

SAMPLE NUMBER: M00-0075 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: EMP #3 before purging wells
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:15 SAMPLE DATE: 05/08/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0076 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Bailer Blank before sampling
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:20 SAMPLE DATE: 05/08/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0077 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ACW #3
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 14:00 SAMPLE DATE: 05/08/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0078 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ACW #2A
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:50 SAMPLE DATE: 05/08/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0079 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ACW #4
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 17:25 SAMPLE DATE: 05/08/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0080 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ENSR #2
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 08:33 SAMPLE DATE: 05/09/2000

ORIGINAL

SAMPLE KEY

SAMPLE NUMBER: M00-0081 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well **ACW #1**
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:35 SAMPLE DATE: 05/09/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0082 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well **ENSR #1**
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:25 SAMPLE DATE: 05/09/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0083 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well **ENSR #3**
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:35 SAMPLE DATE: 05/09/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0084 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well **ENSR #3 DUP.**
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:35 SAMPLE DATE: 05/09/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0085 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well **PTP #1**
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:30 SAMPLE DATE: 05/09/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0086 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well **ACW #8**
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:00 SAMPLE DATE: 05/09/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0087 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ACW #11
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 16:20 SAMPLE DATE: 05/09/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0088 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ACW #7
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:30 SAMPLE DATE: 05/10/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0089 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ACW #6
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:45 SAMPLE DATE: 05/10/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0090 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: EMP #3 middle of sampling
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:10 SAMPLE DATE: 05/10/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0091 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Bailer middle of sampling
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:45 SAMPLE DATE: 05/10/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0092 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ACW#5
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:20 SAMPLE DATE: 05/10/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0093 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor well ~~ACW#15~~ ACW-14
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:07 SAMPLE DATE: 05/10/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0094 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: **Production well Dooms**
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:45 SAMPLE DATE: 05/10/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0095 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well ~~ACW#17~~ ACW-15
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:25 SAMPLE DATE: 05/11/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0096 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well **ACW#13**
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:45 SAMPLE DATE: 05/11/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0097 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: **Production Well-OXY**
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:15 SAMPLE DATE: 05/11/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0098 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well **ACW#12**
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 16:40 SAMPLE DATE: 05/11/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0099 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well **ACW#10**
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 16:40 SAMPLE DATE: 05/11/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0100 LOCATION: Jal #4
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well **ACW#9**
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:08 SAMPLE DATE: 05/12/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0101 LOCATION: Jal #4
MATRIX: water
SAMPLE DESCRIPTION: Monitor **well #9 Dup.**
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:08 SAMPLE DATE: 05/12/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0102 LOCATION: Jal #4
MATRIX: water
SAMPLE DESCRIPTION: **Bailer blank after sampling**
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:33 SAMPLE DATE: 05/12/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0103 LOCATION: Jal #4
MATRIX: water
SAMPLE DESCRIPTION: **Pump blank after sampling**
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:40 SAMPLE DATE: 05/12/2000

EMP #3

SAMPLE KEY

SAMPLE NUMBER: M00-0104 LOCATION: Jal #4
MATRIX: WATER
SAMPLE DESCRIPTION: **FIELD BLANK**
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 14:30 SAMPLE DATE: 05/12/2000

NEL LABORATORIES
Reno • Las Vegas
Phoenix • So. California

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4
PROJECT NUMBER: NA

NEL ORDER ID: P0005041

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 5/11/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

Hr - Sample was received beyond holding time for this parameter.

Stan Van Wagenen
Laboratory Manager

5/24/00
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0075
PROJECT ID:	JAL #4	DATE SAMPLED:	5/8/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005041-01
TEST:	Metals		
MATRIX:	Aqueous	ANALYST:	JF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	46	0.5 mg/L	1	EPA 6010	5/12/00	5/16/00
Magnesium	12	0.5 mg/L	1	EPA 6010	5/12/00	5/16/00
Potassium	4.7	2. mg/L	1	EPA 6010	5/12/00	5/16/00
Silica	25	2. mg/L	2	SM 4500Si-D	NA	5/16/00
Sodium	73	0.5 mg/L	1	EPA 6010	5/12/00	5/16/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0076
PROJECT ID:	JAL #4	DATE SAMPLED:	5/8/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005041-02
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	JF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	5/12/00	5/16/00
Magnesium	ND	0.5 mg/L	1	EPA 6010	5/12/00	5/16/00
Potassium	ND	2. mg/L	1	EPA 6010	5/12/00	5/16/00
Silica	ND	1. mg/L	1	SM 4500Si-D	NA	5/16/00
Sodium	ND	0.5 mg/L	1	EPA 6010	5/12/00	5/16/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P05041I-BLK

TEST: **Metals**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	5/12/00	5/16/00
Magnesium	ND	0.5 mg/L	1	EPA 6010	5/12/00	5/16/00
Potassium	ND	2. mg/L	1	EPA 6010	5/12/00	5/16/00
Sodium	ND	0.5 mg/L	1	EPA 6010	5/12/00	5/16/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P05051-Si-BLK

TEST: **Silicon Oxide by Standard Method 3111D**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	NA	5/16/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0075**
DATE SAMPLED: 5/8/00
NEL SAMPLE ID: P0005041-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	130			1	SM 2320 B	mg/L	5/11/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	5/11/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	5/11/00
Alkalinity, Total	130		25.	1	SM 2320 B	mg/L	5/11/00
Bromide	0.46		0.2	1	EPA 300.0	mg/L	5/15/00
Chloride	83		2.5	25	EPA 300.0	mg/L	5/16/00
Fluoride	1.7		0.4	1	SM 4500-F C	mg/L	5/18/00
Hardness, Total (as CaCO3)	160		2.	1	EPA 200.7	mg/L	5/16/00
Nitrate, as N	ND	Hr	1.	10	EPA 300.0	mg/L-N	5/11/00
pH	7.16	Hr	2.	1	EPA 150.1	pH Units	5/11/00
pH Temperature	21.8	Hr	1.	1	EPA 150.1	°C	5/11/00
Specific Conductance	653		1.	1	SM 2510 B	µS/cm	5/15/00
Sulfate	51		1.	10	EPA 300.0	mg/L	5/11/00
Total Dissolved Solids	482		15.	1	SM 2540 C	mg/L	5/12/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M00-0076
DATE SAMPLED: 5/8/00
NEL SAMPLE ID: P0005041-02

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		REPORTING LIMIT	D.F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND			1	SM 2320 B	mg/L	5/11/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	5/11/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	5/11/00
Alkalinity, Total	ND		25.	1	SM 2320 B	mg/L	5/11/00
Bromide	ND		0.2	1	EPA 300.0	mg/L	5/11/00
Chloride	ND		0.1	1	EPA 300.0	mg/L	5/11/00
Fluoride	ND		0.4	1	SM 4500-F C	mg/L	5/18/00
Hardness, Total (as CaCO3)	ND		2.	1	EPA 200.7	mg/L	5/16/00
Nitrate, as N	ND	Hr	0.1	1	EPA 300.0	mg/L-N	5/11/00
pH	5.52	Hr	2.	1	EPA 150.1	pH Units	5/11/00
pH Temperature	21.3	Hr	1.	1	EPA 150.1	°C	5/11/00
Specific Conductance	4		1.	1	SM 2510 B	µS/cm	5/15/00
Sulfate	ND		0.1	1	EPA 300.0	mg/L	5/11/00
Total Dissolved Solids	21		15.	1	SM 2540 C	mg/L	5/12/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000511ALK-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND		1	SM 2320 B	mg/L	5/11/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	5/11/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	5/11/00
Alkalinity, Total	ND	25	1	SM 2320 B	mg/L	5/11/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000511IC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/kg	5/11/00
Chloride	ND	0.1	1	EPA 300.0	mg/kg	5/11/00
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/Kg-N	5/11/00
Sulfate	ND	0.1	1	EPA 300.0	mg/kg	5/11/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000512TDS-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	5/12/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000515IC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	5/15/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000516IC-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	5/16/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000518F-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	5/18/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0075
PROJECT ID:	JAL #4	DATE SAMPLED:	5/8/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005041-01
TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	BJV - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	5/17/00
DILUTION:	1	ANALYZED:	5/17/00

PARAMETER	Result	Reporting Limit
Benzene	ND	5 µg/L
Toluene	ND	5 µg/L
Ethylbenzene	ND	5 µg/L
Total Xylenes	ND	10 µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	111	86 - 115
Toluene-d8	112	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0076**
PROJECT ID:	JAL #4	DATE SAMPLED:	5/8/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005041-02
TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	BJV - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	5/17/00
DILUTION:	1	ANALYZED:	5/17/00

PARAMETER	Result	Reporting Limit
Benzene	ND	5 µg/L
Toluene	ND	5 µg/L
Ethylbenzene	ND	5 µg/L
Total Xylenes	ND	10 µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	113	86 - 115
Toluene-d8	112	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000517BX60_1B-BLK
TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	BJV - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	5/17/00
		ANALYZED:	5/17/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	111	86 - 115
Toluene-d8	111	88 - 110

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Alkalinity, Total	000511ALK-LCS	125	127.1	102	90 - 109	
Alkalinity, Total	000511ALK-LCSD	125	124.08	99	90 - 109	2.4

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Solid

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Bromide	000511IC-LCS	100	103	103	90 - 110	
Bromide	000511IC-LCSD	100	105	105	90 - 110	1.9
Chloride	000511IC-LCS	100	105	105	90 - 110	
Chloride	000511IC-LCSD	100	106	106	90 - 110	0.9
Nitrate, as N	000511IC-LCS	100	100	100	90 - 110	
Nitrate, as N	000511IC-LCSD	100	99	99	90 - 110	1.
Nitrate, as N	L0005074-12-MS	100	110	0	70 - 130	
Sulfate	000511IC-LCS	100	99	99	90 - 110	
Sulfate	000511IC-LCSD	100	103	103	90 - 110	4.
Sulfate	L0005074-12-MS	100	324	104	70 - 130	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Waste Water

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
7.00 Buffer	000511pH-LCS	7	7.01	100	99 - 101	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	000512TDS-LCS	1000	989	99	94 - 102	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Specific Conductance	000515COND-LCS	1412	1418	100	95 - 105	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Bromide	000515IC-LCS	100	102	102	90 - 110	
Bromide	000515IC-LCSD	100	104	104	90 - 110	1.9
Bromide	P0005049-03-MS	100	105.5	105	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	000516IC-LCS	100	106	106	90 - 110	
Chloride	000516IC-LCSD	100	109	109	90 - 110	2.8
Chloride	P0005046-01-MS	100	175	114	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Benzene	000517BX60_1B-LCS	20	19	95	80 - 120	
Benzene	P0005046-01-MS	20	19	95	76 - 127	
Benzene	P0005046-01-MSD	20	20	100	76 - 127	5.1
Toluene	000517BX60_1B-LCS	20	19	95	80 - 120	
Toluene	P0005046-01-MS	20	20	100	76 - 125	
Toluene	P0005046-01-MSD	20	20	100	76 - 125	0.
Ethylbenzene	000517BX60_1B-LCS	20	19	95	80 - 120	
Ethylbenzene	P0005046-01-MS	20	19	95	70 - 130	
Ethylbenzene	P0005046-01-MSD	20	20	100	70 - 130	0.
Total Xylenes	000517BX60_1B-LCS	60	59	98	80 - 120	
Total Xylenes	P0005046-01-MS	60	58	97	70 - 130	
Total Xylenes	P0005046-01-MSD	60	61	102	70 - 130	0.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Fluoride	000518F-LCS	2	1.98	99	84 - 109	
Fluoride	000518F-LCSD	2	1.83	92	84 - 109	7.9
Fluoride	P0005041-02-MS	1	0.96	96	71 - 126	
Fluoride	P0005041-02-MSD	1	1	100	71 - 126	4.1

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Calcium	P05041I-LCS	20	20.1	101	85 - 115	
Calcium	P0005041-01-MS	20	64	90	75 - 125	
Calcium	P0005041-01-MSD	20	67.2	106	75 - 125	16.3
Magnesium	P05041I-LCS	20	19.9	99	85 - 115	
Magnesium	P0005041-01-MS	20	31.3	97	75 - 125	
Magnesium	P0005041-01-MSD	20	32.2	101	75 - 125	4.6
Potassium	P05041I-LCS	20	19.3	97	85 - 115	
Potassium	P0005041-01-MS	20	24.1	97	75 - 125	
Potassium	P0005041-01-MSD	20	24.3	98	75 - 125	1.
Sodium	P05041I-LCS	20	19.8	99	85 - 115	
Sodium	P0005041-01-MS	20	90.3	86	75 - 125	
Sodium	P0005041-01-MSD	20	95	110	75 - 125	23.9

ND - Not Detected

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EL PASO NATURAL GAS

DUR 5/18

CHAIN OF CUSTODY RECORD

VEGAS (cont.) P0005041

Page ____ of ____

PROJECT NUMBER	PROJECT NAME	SAMPLERS: (Signature)	DATE:
	JAI #4	Allen Burdine	5/8/00

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: Anions + Cations	TPS	sp. Cond.	BTEX	SEE ATTACHED	REMARKS
12	5/8/00	1015	H2O	MOO-0075	5		X	X	X	X	X	BTEX by 8260 on 8021
13	5/8/00	1020	H2O	MOO-0076	6		X	X	X	X	X	
												Per Wendy A OK to Run pH out of Hold Time 5-11-00 1320

Custody Seal Intact: Y N None Temp: 3°C

Condition when received: Poor Good

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Allen Burdine	5/10/00 0900	VIA FED-X		5/11/00 10:00	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

White - *Testing Laboratory* Canary - *EPNG Lab* Pink - *Field Sampler*

FM-08-0566 (Rev 4-98)

NEL LABORATORIES
Reno • Las Vegas
Phoenix • So. California

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4
PROJECT NUMBER: NA

NEL ORDER ID: P0005040

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 5/11/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Stan Van Wagenen
Laboratory Manager

5/19/00
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M00-0077
DATE SAMPLED: 5/8/00
NEL SAMPLE ID: P0005040-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	7600	500.	5000	EPA 300.0	mg/L	5/15/00
Specific Conductance	19400	1.	1	SM 2510 B	µS/cm	5/15/00
Total Dissolved Solids	11900	15.	1	SM 2540 C	mg/L	5/15/00

D.F. - Dilution Factor
ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0078**
PROJECT ID:	JAL #4	DATE SAMPLED:	5/8/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005040-02

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	7200	500.	5000	EPA 300.0	mg/L	5/15/00
Specific Conductance	21500	1.	1	SM 2510 B	µS/cm	5/15/00
Total Dissolved Solids	13600	15.	1	SM 2540 C	mg/L	5/15/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0079**
PROJECT ID:	JAL #4	DATE SAMPLED:	5/8/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005040-03

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D.F.	METHOD	UNITS	ANALYZED
Chloride	47000	5000.	50000	EPA 300.0	mg/L	5/16/00
Specific Conductance	106000	1.	1	SM 2510 B	µS/cm	5/15/00
Total Dissolved Solids	72300	15.	1	SM 2540 C	mg/L	5/15/00

D.F. - Dilution Factor
ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0080
PROJECT ID:	JAL #4	DATE SAMPLED:	5/8/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005040-04

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	18000	500.	5000	EPA 300.0	mg/L	5/15/00
Specific Conductance	42900	1.	1	SM 2510 B	µS/cm	5/15/00
Total Dissolved Solids	26700	15.	1	SM 2540 C	mg/L	5/15/00

D.F. - Dilution Factor
ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0081**
PROJECT ID:	JAL #4	DATE SAMPLED:	5/8/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005040-05

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	7000	500.	5000	EPA 300.0	mg/L	5/15/00
Specific Conductance	19300	1.	1	SM 2510 B	µS/cm	5/15/00
Total Dissolved Solids	11300	15.	1	SM 2540 C	mg/L	5/15/00

D.F. - Dilution Factor
ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M00-0082
DATE SAMPLED: 5/8/00
NEL SAMPLE ID: P0005040-06

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D.F.	METHOD	UNITS	ANALYZED
Chloride	6200	250.	2500	EPA 300.0	mg/L	5/16/00
Specific Conductance	12800	1.	1	SM 2510 B	µS/cm	5/15/00
Total Dissolved Solids	7420	15.	1	SM 2540 C	mg/L	5/15/00

D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0083**
PROJECT ID:	JAL #4	DATE SAMPLED:	5/8/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005040-07

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	710	50.	500	EPA 300.0	mg/L	5/16/00
Specific Conductance	2360	1.	1	SM 2510 B	µS/cm	5/15/00
Total Dissolved Solids	1580	15.	1	SM 2540 C	mg/L	5/15/00

D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0084**
DATE SAMPLED: 5/8/00
NEL SAMPLE ID: P0005040-08

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	710	50.	500	EPA 300.0	mg/L	5/16/00
Specific Conductance	2410	1.	1	SM 2510 B	µS/cm	5/15/00
Total Dissolved Solids	1580	15.	1	SM 2540 C	mg/L	5/15/00

D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M00-0085
DATE SAMPLED: 5/8/00
NEL SAMPLE ID: P0005040-09

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	510	50.	500	EPA 300.0	mg/L	5/16/00
Specific Conductance	2210	1.	1	SM 2510 B	µS/cm	5/15/00
Total Dissolved Solids	1400	15.	1	SM 2540 C	mg/L	5/15/00

D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0086**
DATE SAMPLED: 5/8/00
NEL SAMPLE ID: P0005040-10

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	32000	1000.	10000	EPA 300.0	mg/L	5/16/00
Specific Conductance	62900	1.	1	SM 2510 B	µS/cm	5/15/00
Total Dissolved Solids	41800	15.	1	SM 2540 C	mg/L	5/15/00

D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0087**
PROJECT ID:	JAL #4	DATE SAMPLED:	5/8/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005040-11

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	18000	500.	5000	EPA 300.0	mg/L	5/16/00
Specific Conductance	31500	1.	1	SM 2510 B	µS/cm	5/15/00
Total Dissolved Solids	21000	15.	1	SM 2540 C	mg/L	5/15/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000515IC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	5/15/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000515TDS-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	5/15/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000516IC-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	5/16/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Specific Conductance	000515COND-LCS	1412	1418	100	95 - 105	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	000515IC-LCS	100	101	101	90 - 110	
Chloride	000515IC-LCSD	100	102	102	90 - 110	1.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	000515TDS-LCS	1000	985	99	94 - 102	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	000516IC-LCS	100	106	106	90 - 110	
Chloride	000516IC-LCSD	100	109	109	90 - 110	2.8
Chloride	P0005046-01-MS	100	175	114	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

EL PASO NATURAL GAS

DUE 5/18/00

CHAIN OF CUSTODY RECORD

VOAs lead x Only

P0005040

Page 1 of 1

PROJECT NUMBER	PROJECT NAME	SAMPLERS: (Signature)	DATE:
	JAI #4		5/18/00

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: CL	TPS	SP. Cond
01	5/18/00	1400	H2O	M00-0077	SP. #1		X	X	X
02	5/18/00	1550	H2O	M00-0078	1		X	X	X
03	5/18/00	1725	H2O	M00-0079	1		X	X	X
04	5/19/00	0833	H2O	M00-0080	1		X	X	X
05	5/19/00	0935	H2O	M00-0081	1		X	X	X
06	5/19/00	1125	H2O	M00-0082	1		X	X	X
07	5/19/00	1235	H2O	M00-0083	1		X	X	X
08	5/19/00	1235	H2O	M00-0084	1		X	X	X
09	5/19/00	1330	H2O	M00-0085	1		X	X	X
10	5/19/00	1500	H2O	M00-0086	1		X	X	X
11	5/19/00	1620	H2O	M00-0087	1		X	X	X

CONTRACT LABORATORY

REMARKS

Custody Seal Intact: Y N None Temp: 3°C

Condition when received: Poor Good

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	5/18/00 0900	Via Fed-X		5/11/00 10:00	MRL-LV
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME: ☑ ROUTINE ☐ RUSH

CARRIER CO

BILL NO

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

1-08-0566 (Rev 4-98)

NEL LABORATORIES
Reno • Las Vegas
Phoenix • So. California

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4
PROJECT NUMBER: NA

NEL ORDER ID: P0005044

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 5/12/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Stan Van Wagenen
Laboratory Manager

5/19/00
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0088
PROJECT ID:	JAL #4	DATE SAMPLED:	5/10/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005044-01
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	7100	250.	2500	EPA 300.0	mg/L	5/16/00
Specific Conductance	14900	1.	1	SM 2510 B	µS/cm	5/15/00
Total Dissolved Solids	8900	15.	1	SM 2540 C	mg/L	5/15/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0089
PROJECT ID:	JAL #4	DATE SAMPLED:	5/10/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005044-02
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	3600	250.	2500	EPA 300.0	mg/L	5/16/00
Specific Conductance	10300	1.	1	SM 2510 B	µS/cm	5/15/00
Total Dissolved Solids	6290	15.	1	SM 2540 C	mg/L	5/15/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M00-0090
DATE SAMPLED: 5/10/00
NEL SAMPLE ID: P0005044-03

TEST: **Inorganic Non-Metals**
MATRIX: **Aqueous**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	98	5.	50	EPA 300.0	mg/L	5/16/00
Specific Conductance	648	1.	1	SM 2510 B	µS/cm	5/15/00
Total Dissolved Solids	373	15.	1	SM 2540 C	mg/L	5/15/00

D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M00-0091
DATE SAMPLED: 5/10/00
NEL SAMPLE ID: P0005044-04

TEST: Inorganic Non-Metals
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	5/16/00
Specific Conductance	2	1.	1	SM 2510 B	µS/cm	5/15/00
Total Dissolved Solids	19	15.	1	SM 2540 C	mg/L	5/15/00

D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M00-0092
DATE SAMPLED: 5/10/00
NEL SAMPLE ID: P0005044-05

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	750	100.	1000	EPA 300.0	mg/L	5/16/00
Specific Conductance	3180	1.	1	SM 2510 B	µS/cm	5/15/00
Total Dissolved Solids	1960	15.	1	SM 2540 C	mg/L	5/15/00

D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000515TDS-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	5/15/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000516IC-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	5/16/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Specific Conductance	000515COND-LCS	1412	1418	100	95 - 105	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	000515TDS-LCS	1000	985	99	94 - 102	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	000516IC-LCS	100	106	106	90 - 110	
Chloride	000516IC-LCSD	100	109	109	90 - 110	2.8
Chloride	P0005046-01-MS	100	175	114	80 - 120	

ND - Not Detected

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EL PASO NATURAL GAS

DAFE 5/19

Vreas lead & Only

CHAIN OF CUSTODY RECORD

P0005044

Page _____ of _____

PROJECT NUMBER	PROJECT NAME	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS						CONTRACT LABORATORY
	Tgl #4									
SAMPLERS: (Signature)	DATE:									
	5/10/00									REMARKS
LAB ID / DATE / TIME / MATRIX / SAMPLE NUMBER				CT	TPS	Sp. Cond.				
01 5/10/00 1030 H2O MOO-0088		1		X	X	X				
02 5/10/00 1145 H2O MOO-0089		1		X	X	X				
03 5/10/00 1210 H2O MOO-0090		1		X	X	X				
04 5/10/00 1245 H2O MOO-0091		1		X	X	X				
05 5/10/00 1320 H2O MOO-0092		1		X	X	X				

Custody Seal Intact: Y N None Temp: 1°C

Condition when received: Poor Good

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	5/10/00 0800	VIA FED-X		5/12 0940	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO.

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

White - *Testing Laboratory* Canary - *EPNG Lab* Pink - *Field Sampler*

4-08-0566 (Rev 4-98)

NEL LABORATORIES
Reno • Las Vegas
Phoenix • So. California

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4
PROJECT NUMBER: NA

NEL ORDER ID: P0005046

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 5/12/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

Hr - Sample was received beyond holding time for this parameter.

Stan Van Wagenen
Laboratory Manager

6/5/00
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0093
PROJECT ID:	JAL #4	DATE SAMPLED:	5/10/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005046-01
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	51	0.5 mg/L	1	EPA 6010	5/15/00	5/17/00
Magnesium	19	0.5 mg/L	1	EPA 6010	5/15/00	5/17/00
Potassium	6.6	2. mg/L	1	EPA 6010	5/15/00	5/17/00
Silica	34	2. mg/L	2	SM 4500Si-D	NA	5/16/00
Sodium	110	0.5 mg/L	1	EPA 6010	5/15/00	5/17/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	L05118-Si-BLK

TEST: **Silicon Oxide by Standard Method 3111D**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	NA	5/16/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P05045I-BLK

TEST: **Cations by EPA 6010A**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	5/15/00	5/17/00
Magnesium	ND	0.5 mg/L	1	EPA 6010	5/15/00	5/17/00
Potassium	ND	2. mg/L	1	EPA 6010	5/15/00	5/17/00
Sodium	ND	0.5 mg/L	1	EPA 6010	5/15/00	5/17/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M00-0093
DATE SAMPLED: 5/10/00
NEL SAMPLE ID: P0005046-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	170			1	SM 2320 B	mg/L	5/19/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	5/19/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	5/19/00
Alkalinity, Total	170		25.	1	SM 2320 B	mg/L	5/19/00
Bromide	0.38		0.2	1	EPA 300.0	mg/L	5/16/00
Chloride	61		10.	100	EPA 300.0	mg/L	5/16/00
Fluoride	1.5		0.4	1	SM 4500-F C	mg/L	5/19/00
Hardness, Total (as CaCO3)	200		2.	1	EPA 200.7	mg/L	5/17/00
Nitrate, as N	1.8		0.5	5	EPA 300.0	mg/L-N	5/12/00
pH	7.66	Hr	2.	1	EPA 150.1	pH Units	5/12/00
pH Temperature	21.2		1.	1	EPA 150.1	°C	5/12/00
Specific Conductance	761		1.	1	SM 2510 B	µS/cm	5/15/00
Sulfate	110		10.	100	EPA 300.0	mg/L	5/16/00
Total Dissolved Solids	485		15.	1	SM 2540 C	mg/L	5/15/00

D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000512IC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	5/12/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000515TDS-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	5/15/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000516IC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	5/16/00
Chloride	ND	0.1	1	EPA 300.0	mg/L	5/16/00
Sulfate	ND	0.1	1	EPA 300.0	mg/L	5/16/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000519ALK-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND		1	SM 2320 B	mg/L	5/19/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	5/19/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	5/19/00
Alkalinity, Total	ND	25	1	SM 2320 B	mg/L	5/19/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000519F-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	5/19/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0093
PROJECT ID:	JAL #4	DATE SAMPLED:	5/10/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005046-01

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	BJV - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	5/17/00
DILUTION:	1	ANALYZED:	5/17/00

PARAMETER	Result	Reporting Limit
Benzene	ND	5 µg/L
Toluene	ND	5 µg/L
Ethylbenzene	ND	5 µg/L
Total Xylenes	ND	10 µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	110	86 - 115
Toluene-d8	112	88 - 110

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000517BX60_1B-BLK
TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	BJV - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	5/17/00
		ANALYZED:	5/17/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	111	86 - 115
Toluene-d8	111	88 - 110

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000517WW24_1A-BLK
TEST:	**Purgeable Organic Compounds by EPA 624, July 1998**		
METHOD:	EPA 624	ANALYST:	BJV - Las Vegas Division
MATRIX:	Waste Water	EXTRACTED:	5/17/00
		ANALYZED:	5/17/00

PARAMETER	Result	Reporting Limit
Benzene	ND	5. µg/L
Bromodichloromethane	ND	5. µg/L
Bromoform	ND	5. µg/L
Bromomethane	ND	5. µg/L
Carbon tetrachloride	ND	5. µg/L
Chlorobenzene	ND	5. µg/L
Chloroethane	ND	5. µg/L
2-Chloroethyl vinyl ether	ND	25. µg/L
Chloroform	ND	5. µg/L
Chloromethane	ND	5. µg/L
Dibromochloromethane	ND	5. µg/L
cis-1,2-Dichloroethene	ND	5. µg/L
1,2-Dichlorobenzene (o-DCB)	ND	5. µg/L
1,3-Dichlorobenzene (m-DCB)	ND	5. µg/L
1,4-Dichlorobenzene (p-DCB)	ND	5. µg/L
1,1-Dichloroethane (1,1-DCA)	ND	5. µg/L
1,2-Dichloroethane (1,2-DCA)	ND	5. µg/L
1,1-Dichloroethene (1,1-DCE)	ND	5. µg/L
trans-1,2-Dichloroethene	ND	5. µg/L
1,2-Dichloropropane	ND	5. µg/L
cis-1,3-Dichloropropene	ND	5. µg/L
trans-1,3-Dichloropropene	ND	5. µg/L
Ethylbenzene	ND	5. µg/L
Methylene chloride (Dichloromethane)	ND	5. µg/L
Styrene	ND	5. µg/L
1,1,2,2-Tetrachloroethane	ND	5. µg/L
MTBE	ND	5. µg/L
Tetrachloroethene (PCE)	ND	5. µg/L
Toluene	ND	5. µg/L
1,1,1-Trichloroethane (1,1,1-TCA)	ND	5. µg/L
1,1,2-Trichloroethane (1,1,2-TCA)	ND	5. µg/L
Trichloroethene (TCE)	ND	5. µg/L
Trichlorofluoromethane (Freon 11)	ND	10. µg/L
Vinyl chloride	ND	5. µg/L
m,p-Xylene	ND	10. µg/L
o-Xylene	ND	5. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	111	76 - 112
Dibromofluoromethane	107	77 - 112
Toluene-d8	111	82 - 115

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Nitrate, as N	000512IC-LCS	100	102	102	90 - 110	
Nitrate, as N	000512IC-LCSD	100	101	101	90 - 110	1.
Nitrate, as N	P0005046-01-MS	100	106.8	105	80 - 120	

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
7.00 Buffer	000512pH-LCS	7	6.99	100	99 - 101	
7.00 Buffer	000512pH-LCSD	7	7	100	99 - 101	0.1

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Specific Conductance	000515COND-LCS	1412	1418	100	95 - 105	

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	000515TDS-LCS	1000	985	99	94 - 102	

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	000516IC-LCS	100	106	106	90 - 110	
Chloride	000516IC-LCSD	100	109	109	90 - 110	2.8
Chloride	P0005046-01-MS	100	175	114	80 - 120	
Bromide	000516IC-LCS	100	106	106	90 - 110	
Bromide	000516IC-LCSD	100	105	105	90 - 110	0.9
Bromide	P0005046-01-MS	100	106.4	106	80 - 120	
Sulfate	000516IC-LCS	100	102	102	90 - 110	
Sulfate	000516IC-LCSD	100	103	103	90 - 110	1.
Sulfate	P0005046-01-MS	100	194	84	80 - 120	

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Benzene	000517BX60_1B-LCS	20	19	95	80 - 120	
Benzene	P0005046-01-MS	20	19	95	76 - 127	
Benzene	P0005046-01-MSD	20	20	100	76 - 127	5.1
Toluene	000517BX60_1B-LCS	20	19	95	80 - 120	
Toluene	P0005046-01-MS	20	20	100	76 - 125	
Toluene	P0005046-01-MSD	20	20	100	76 - 125	0.
Ethylbenzene	000517BX60_1B-LCS	20	19	95	80 - 120	
Ethylbenzene	P0005046-01-MS	20	19	95	70 - 130	
Ethylbenzene	P0005046-01-MSD	20	20	100	70 - 130	0.
Total Xylenes	000517BX60_1B-LCS	60	59	98	80 - 120	
Total Xylenes	P0005046-01-MS	60	58	97	70 - 130	
Total Xylenes	P0005046-01-MSD	60	61	102	70 - 130	0.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Purgeable Organic Compounds by EPA 624, July 1998**
MATRIX: Waste Water

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Benzene	000517WW24_1A-LCS	20	19	95	37 - 151	
Benzene	P0005046-01-MS	20	19	95	37 - 151	
Benzene	P0005046-01-MSD	20	20	100	37 - 151	5.1
Bromodichloromethane	000517WW24_1A-LCS	20	18	90	35 - 155	
Bromodichloromethane	P0005046-01-MS	20	17	85	35 - 155	
Bromodichloromethane	P0005046-01-MSD	20	19	95	35 - 155	11.1
Bromoform	000517WW24_1A-LCS	20	18	90	25 - 242	
Bromoform	P0005046-01-MS	20	18	90	25 - 242	
Bromoform	P0005046-01-MSD	20	19	95	25 - 242	5.4
Bromomethane	P0005046-01-MS	20	19	95	45 - 169	
Bromomethane	P0005046-01-MSD	20	20	100	45 - 169	5.1
Carbon tetrachloride	000517WW24_1A-LCS	20	19	95	45 - 169	
Carbon tetrachloride	P0005046-01-MS	20	18	90	70 - 140	
Carbon tetrachloride	P0005046-01-MSD	20	19	95	70 - 140	5.4
Chlorobenzene	000517WW24_1A-LCS	20	20	100	70 - 140	
Chlorobenzene	P0005046-01-MS	20	18	90	37 - 160	
Chlorobenzene	P0005046-01-MSD	20	20	100	37 - 160	10.5
Chloroethane	000517WW24_1A-LCS	20	22	110	37 - 160	
Chloroethane	P0005046-01-MS	20	20	100	25 - 230	
Chloroethane	P0005046-01-MSD	20	20	100	25 - 230	0.
Chloroform	000517WW24_1A-LCS	20	18	90	25 - 230	
Chloroform	P0005046-01-MS	20	18	90	51 - 138	
Chloroform	P0005046-01-MSD	20	19	95	51 - 138	5.4
Chloromethane	000517WW24_1A-LCS	20	23	115	25 - 273	
Chloromethane	P0005046-01-MS	20	20	100	25 - 273	
Chloromethane	P0005046-01-MSD	20	21	105	25 - 273	4.9
Dibromochloromethane	000517WW24_1A-LCS	20	18	90	53 - 149	
Dibromochloromethane	P0005046-01-MS	20	17	85	53 - 149	
Dibromochloromethane	P0005046-01-MSD	20	19	95	53 - 149	11.1
1,2-Dichlorobenzene (o-DCB)	000517WW24_1A-LCS	20	18	90	25 - 190	
1,2-Dichlorobenzene (o-DCB)	P0005046-01-MS	20	18	90	25 - 190	
1,2-Dichlorobenzene (o-DCB)	P0005046-01-MSD	20	19	95	25 - 190	5.4
1,3-Dichlorobenzene (m-DCB)	000517WW24_1A-LCS	20	20	100	59 - 156	
1,3-Dichlorobenzene (m-DCB)	P0005046-01-MS	20	18	90	59 - 156	
1,3-Dichlorobenzene (m-DCB)	P0005046-01-MSD	20	20	100	59 - 155	10.5
1,4-Dichlorobenzene (p-DCB)	000517WW24_1A-LCS	20	20	100	25 - 190	
1,4-Dichlorobenzene (p-DCB)	P0005046-01-MS	20	19	95	25 - 190	
1,4-Dichlorobenzene (p-DCB)	P0005046-01-MSD	20	20	100	25 - 190	5.1

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

TEST: **Purgeable Organic Compounds by EPA 624, July 1998**
MATRIX: Waste Water

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
1,1-Dichloroethane (1,1-DCA)	000517WW24_1A-LCS	20	18	90	59 - 155	
1,1-Dichloroethane (1,1-DCA)	P0005046-01-MS	20	18	90	59 - 155	
1,1-Dichloroethane (1,1-DCA)	P0005046-01-MSD	20	19	95	59 - 155	5.4
1,2-Dichloroethane (1,2-DCA)	000517WW24_1A-LCS	20	18	90	49 - 155	
1,2-Dichloroethane (1,2-DCA)	P0005046-01-MS	20	17	85	49 - 155	
1,2-Dichloroethane (1,2-DCA)	P0005046-01-MSD	20	19	95	49 - 155	11.1
1,1-Dichloroethene (1,1-DCE)	000517WW24_1A-LCS	20	18	90	25 - 234	
1,1-Dichloroethene (1,1-DCE)	P0005046-01-MS	20	17	85	25 - 234	
1,1-Dichloroethene (1,1-DCE)	P0005046-01-MSD	20	17	85	25 - 234	0.
trans-1,2-Dichloroethene	000517WW24_1A-LCS	20	18	90	54 - 156	
trans-1,2-Dichloroethene	P0005046-01-MS	20	18	90	54 - 156	
trans-1,2-Dichloroethene	P0005046-01-MSD	20	18	90	54 - 156	0.
1,2-Dichloropropane	000517WW24_1A-LCS	20	20	100	25 - 210	
1,2-Dichloropropane	P0005046-01-MS	20	19	95	25 - 210	
1,2-Dichloropropane	P0005046-01-MSD	20	21	105	25 - 210	10.
cis-1,3-Dichloropropene	000517WW24_1A-LCS	20	19	95	25 - 227	
cis-1,3-Dichloropropene	P0005046-01-MS	20	18	90	25 - 227	
cis-1,3-Dichloropropene	P0005046-01-MSD	20	19	95	25 - 227	5.4
trans-1,3-Dichloropropene	000517WW24_1A-LCS	20	19	95	25 - 183	
trans-1,3-Dichloropropene	P0005046-01-MS	20	18	90	25 - 183	
trans-1,3-Dichloropropene	P0005046-01-MSD	20	20	100	25 - 183	10.5
Ethylbenzene	000517WW24_1A-LCS	20	19	95	37 - 162	
Ethylbenzene	P0005046-01-MS	20	19	95	37 - 162	
Ethylbenzene	P0005046-01-MSD	20	20	100	37 - 162	5.1
Methylene chloride (Dichloromethane)	000517WW24_1A-LCS	20	16	80	25 - 221	
Methylene chloride (Dichloromethane)	P0005046-01-MS	20	20	100	25 - 221	
Methylene chloride (Dichloromethane)	P0005046-01-MSD	20	22	110	25 - 221	9.5
1,1,2,2-Tetrachloroethane	000517WW24_1A-LCS	20	18	90	46 - 157	
1,1,2,2-Tetrachloroethane	P0005046-01-MS	20	19	95	46 - 157	
1,1,2,2-Tetrachloroethane	P0005046-01-MSD	20	19	95	46 - 157	0.
Tetrachloroethene (PCE)	000517WW24_1A-LCS	20	20	100	64 - 148	
Tetrachloroethene (PCE)	P0005046-01-MS	20	19	95	64 - 148	
Tetrachloroethene (PCE)	P0005046-01-MSD	20	20	100	64 - 148	5.1
Toluene	000517WW24_1A-LCS	20	19	95	47 - 150	
Toluene	P0005046-01-MS	20	20	100	47 - 150	
Toluene	P0005046-01-MSD	20	20	100	47 - 150	0.
1,1,1-Trichloroethane (1,1,1-TCA)	000517WW24_1A-LCS	20	18	90	52 - 162	
1,1,1-Trichloroethane (1,1,1-TCA)	P0005046-01-MS	20	18	90	52 - 162	

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Purgeable Organic Compounds by EPA 624, July 1998**
MATRIX: Waste Water

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
1,1,1-Trichloroethane (1,1,1-TCA)	P0005046-01-MSD	20	19	95	52 - 162	5.4
1,1,2-Trichloroethane (1,1,2-TCA)	000517WW24_1A-LCS	20	18	90	52 - 150	
1,1,2-Trichloroethane (1,1,2-TCA)	P0005046-01-MS	20	18	90	52 - 150	
1,1,2-Trichloroethane (1,1,2-TCA)	P0005046-01-MSD	20	19	95	52 - 150	5.4
Trichloroethene (TCE)	000517WW24_1A-LCS	20	19	95	71 - 157	
Trichloroethene (TCE)	P0005046-01-MS	20	18	90	71 - 157	
Trichloroethene (TCE)	P0005046-01-MSD	20	19	95	71 - 157	5.4
Trichlorofluoromethane (Freon 11)	000517WW24_1A-LCS	20	22	110	25 - 181	
Trichlorofluoromethane (Freon 11)	P0005046-01-MS	20	20	100	25 - 181	
Trichlorofluoromethane (Freon 11)	P0005046-01-MSD	20	20	100	25 - 181	0.
Vinyl chloride	000517WW24_1A-LCS	20	22	110	25 - 251	
Vinyl chloride	P0005046-01-MS	20	12	60	25 - 251	
Vinyl chloride	P0005046-01-MSD	20	10	50	25 - 251	18.2

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Alkalinity, Total	000519ALK-LCS	125	123.96	99	90 - 109	
Alkalinity, Total	000519ALK-LCSD	125	121.84	97	90 - 109	1.7

ND - Not Detected

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- NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0097
PROJECT ID:	JAL #4	DATE SAMPLED:	5/11/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005051-01
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	71	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00
Magnesium	21	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00
Potassium	5.0	2. mg/L	1	EPA 6010	5/17/00	5/18/00
Silica	35	2. mg/L	2	SM 4500Si-D	NA	5/16/00
Sodium	72	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P050491-BLK

TEST: **Cations by EPA 6010A**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00
Magnesium	ND	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00
Potassium	ND	2. mg/L	1	EPA 6010	5/17/00	5/18/00
Sodium	ND	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P05051-Si-BLK

TEST: **Silicon Oxide by Standard Method 3111D**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D.F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	NA	5/16/00

D.F. - Dilution Factor

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M00-0097
DATE SAMPLED: 5/11/00
NEL SAMPLE ID: P0005051-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	150			1	SM 2320 B	mg/L	5/19/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	5/19/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	5/19/00
Alkalinity, Total	150		25.	1	SM 2320 B	mg/L	5/19/00
Bromide	0.50		0.2	1	EPA 300.0	mg/L	5/16/00
Chloride	120		25.	250	EPA 300.0	mg/L	5/16/00
Fluoride	0.99		0.4	1	SM 4500-F C	mg/L	5/17/00
Hardness, Total (as CaCO3)	260		2.	1	EPA 200.7	mg/L	5/17/00
Nitrate, as N	0.84	Hr	0.5	5	EPA 300.0	mg/L-N	5/15/00
pH	7.96	Hr	2.	1	EPA 150.1	pH Units	5/16/00
pH Temperature	19.6	Hr	1.	1	EPA 150.1	°C	5/16/00
Specific Conductance	835		1.	1	SM 2510 B	µS/cm	5/16/00
Sulfate	63		1.	10	EPA 300.0	mg/L	5/16/00
Total Dissolved Solids	504		15.	1	SM 2540 C	mg/L	5/16/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000515IC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	5/15/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000516IC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	5/16/00
Chloride	ND	0.1	1	EPA 300.0	mg/L	5/16/00
Sulfate	ND	0.1	1	EPA 300.0	mg/L	5/16/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000516TDS-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	5/16/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000517F-BLK

TEST: ***Non-Metals***

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	5/17/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 000519ALK-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND		1	SM 2320 B	mg/L	5/19/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	5/19/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	5/19/00
Alkalinity, Total	ND	25	1	SM 2320 B	mg/L	5/19/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0097**
PROJECT ID:	JAL #4	DATE SAMPLED:	5/11/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005051-01

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	5/19/00
DILUTION:	1	ANALYZED:	5/19/00

PARAMETER	Result	Reporting Limit
Benzene	ND	5 µg/L
Toluene	ND	5 µg/L
Ethylbenzene	ND	5 µg/L
Total Xylenes	ND	10 µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	100	75 - 125
Toluene-d8	100	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000519BX60_2A-BLK
TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	5/19/00
		ANALYZED:	5/19/00

PARAMETER	Result	Reporting Limit
Benzene	ND	5. µg/L
Toluene	ND	5. µg/L
Ethylbenzene	ND	5. µg/L
Total Xylenes	ND	10. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	99	75 - 125
Toluene-d8	99	88 - 110

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Nitrate, as N	000515IC-LCS	100	99	99	90 - 110	
Nitrate, as N	000515IC-LCSD	100	99	99	90 - 110	0.
Nitrate, as N	P0005049-03-MS	100	99.15	99	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Specific Conductance	000516COND-LCS	1412	1419	100	95 - 105	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	000516IC-LCS	100	106	106	90 - 110	
Chloride	000516IC-LCSD	100	109	109	90 - 110	2.8
Chloride	P0005046-01-MS	100	175	114	80 - 120	
Bromide	000516IC-LCS	100	106	106	90 - 110	
Bromide	000516IC-LCSD	100	105	105	90 - 110	0.9
Bromide	P0005046-01-MS	100	106.4	106	80 - 120	
Sulfate	000516IC-LCS	100	102	102	90 - 110	
Sulfate	000516IC-LCSD	100	103	103	90 - 110	1.
Sulfate	P0005046-01-MS	100	194	84	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
7.00 Buffer	000516pH-LCS	7	6.99	100	99 - 101	
7.00 Buffer	000516pH-LCSD	7	7.02	100	99 - 101	0.4

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	000516TDS-LCS	1000	977	98	94 - 102	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Fluoride	000519F-LCS	2	1.85	93	84 - 109	
Fluoride	000519F-LCSD	2	1.82	91	84 - 109	1.6
Fluoride	L0005171-01-MS	1	1.66	103	71 - 126	
Fluoride	L0005171-01-MSD	1	1.64	101	71 - 126	2.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Calcium	P05045I-LCS	20	19.6	98	85 - 115	
Calcium	P0005045-01-MS	20	64.3	101	75 - 125	
Calcium	P0005045-01-MSD	20	65.7	109	75 - 125	6.7
Magnesium	P05045I-LCS	20	19.6	98	85 - 115	
Magnesium	P0005045-01-MS	20	34.9	99	75 - 125	
Magnesium	P0005045-01-MSD	20	35.5	102	75 - 125	3.
Potassium	P05045I-LCS	20	20.2	101	85 - 115	
Potassium	P0005045-01-MS	20	23.8	98	75 - 125	
Potassium	P0005045-01-MSD	20	24	99	75 - 125	1.
Sodium	P05045I-LCS	20	21.5	108	85 - 115	
Sodium	P0005045-01-MS	20	93.5	108	75 - 125	
Sodium	P0005045-01-MSD	20	95.4	117	75 - 125	8.5

ND - Not Detected

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EL PASO NATURAL GAS

DUE 5/19

Verbal lead

CHAIN OF CUSTODY RECORD

P000050C46

Page _____ of _____

PROJECT NUMBER	PROJECT NAME	SAMPLERS: (Signature)	DATE:
	JA1 #4		5/10/00

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: Anions Cations	SEE ATTACHED	TDS	Sp. cond.	BTEX
01	5/10/00	1507	H2O	MOO-00093	5		X	X	X	X	X

CONTRACT LABORATORY

REMARKS

Run 8260 BTEX
OK TO RUN out of
Hold Time per
Wendy A. 5-12-00 1200

Custody Seal Intact: Y N None Temp: 1.6°C
Condition when received: Poor Good

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	5/10/00 1800	VIA FED-X		5/12 0940	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

White - *Testing Laboratory* Canary - *EPNG Lab* Pink - *Field Sampler*

FM-08-0566 (Rev 4-98)

NEL LABORATORIES
Reno • Las Vegas
Phoenix • So. California

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4
PROJECT NUMBER: NA

NEL ORDER ID: P0005045

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 5/12/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

Hr - Sample was received beyond holding time for this parameter.

Stan Van Wagenen
Laboratory Manager

6/1/00
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0094**
PROJECT ID:	JAL #4	DATE SAMPLED:	5/10/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005045-01
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	44	0.5 mg/L	1	EPA 6010	5/15/00	5/17/00
Magnesium	15	0.5 mg/L	1	EPA 6010	5/15/00	5/17/00
Potassium	4.2	2. mg/L	1	EPA 6010	5/15/00	5/17/00
Silica	29	2. mg/L	2	SM 4500Si-D	NA	5/16/00
Sodium	72	0.5 mg/L	1	EPA 6010	5/15/00	5/17/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P05045I-BLK

TEST: **Cations by EPA 6010A**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	5/15/00	5/17/00
Magnesium	ND	0.5 mg/L	1	EPA 6010	5/15/00	5/17/00
Potassium	ND	2. mg/L	1	EPA 6010	5/15/00	5/17/00
Sodium	ND	0.5 mg/L	1	EPA 6010	5/15/00	5/17/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	*El Paso Natural Gas Company*	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P05051-Si-BLK

TEST: **Silicon Oxide by Standard Method 3111D**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	NA	5/16/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M00-0094
DATE SAMPLED: 5/10/00
NEL SAMPLE ID: P0005045-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	190			1	SM 2320 B	mg/L	5/19/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	5/19/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	5/19/00
Alkalinity, Total	190		25.	1	SM 2320 B	mg/L	5/19/00
Bromide	0.27		0.2	1	EPA 300.0	mg/L	5/16/00
Chloride	31		2.5	25	EPA 300.0	mg/L	5/16/00
Fluoride	0.82		0.4	1	SM 4500-F C	mg/L	5/19/00
Hardness, Total (as CaCO3)	170		2.	1	EPA 200.7	mg/L	5/17/00
Nitrate, as N	1.2		0.5	5	EPA 300.0	mg/L-N	5/12/00
pH	7.69	Hr	2.	1	EPA 150.1	pH Units	5/12/00
pH Temperature	21.3		1.	1	EPA 150.1	°C	5/12/00
Specific Conductance	619		1.	1	SM 2510 B	µS/cm	5/15/00
Sulfate	77		2.5	25	EPA 300.0	mg/L	5/16/00
Total Dissolved Solids	417		15.	1	SM 2540 C	mg/L	5/15/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000512IC-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	5/12/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000515TDS-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	5/15/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000516IC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	*REPORTING* LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	5/16/00
Chloride	ND	0.1	1	EPA 300.0	mg/L	5/16/00
Sulfate	ND	0.1	1	EPA 300.0	mg/L	5/16/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000519ALK-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND		1	SM 2320 B	mg/L	5/19/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	5/19/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	5/19/00
Alkalinity, Total	ND	25	1	SM 2320 B	mg/L	5/19/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000519F-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	5/19/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0094
PROJECT ID:	JAL #4	DATE SAMPLED:	5/10/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005045-01
TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	BJV - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	5/17/00
DILUTION:	1	ANALYZED:	5/17/00

PARAMETER	Result	Reporting Limit
Benzene	ND	5 µg/L
Toluene	ND	5 µg/L
Ethylbenzene	ND	5 µg/L
Total Xylenes	ND	10 µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	109	86 - 115
Toluene-d8	111	88 - 110

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000517BX60_1B-BLK
TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	BJV - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	5/17/00
		ANALYZED:	5/17/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	111	86 - 115
Toluene-d8	111	88 - 110

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Nitrate, as N	000512IC-LCS	100	102	102	90 - 110	
Nitrate, as N	000512IC-LCSD	100	101	101	90 - 110	1.
Nitrate, as N	P0005046-01-MS	100	106.8	105	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
7.00 Buffer	000512pH-LCS	7	6.99	100	99 - 101	
7.00 Buffer	000512pH-LCSD	7	7	100	99 - 101	0.1

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Specific Conductance	000515COND-LCS	1412	1418	100	95 - 105	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	000515TDS-LCS	1000	985	99	94 - 102	

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	000516IC-LCS	100	106	106	90 - 110	
Chloride	*000516IC-LCSD*	*100*	*109*	*109*	*90 - 110*	*2.8*
Chloride	P0005046-01-MS	100	175	114	80 - 120	
Bromide	000516IC-LCS	100	106	106	90 - 110	
Bromide	000516IC-LCSD	100	105	105	90 - 110	0.9
Bromide	P0005046-01-MS	100	106.4	106	80 - 120	
Sulfate	000516IC-LCS	100	102	102	90 - 110	
Sulfate	000516IC-LCSD	100	103	103	90 - 110	1.
Sulfate	P0005046-01-MS	100	194	84	80 - 120	

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Benzene	000517BX60_1B-LCS	20	19	95	80 - 120	
Benzene	P0005046-01-MS	20	19	95	76 - 127	
Benzene	P0005046-01-MSD	20	20	100	76 - 127	5.1
Toluene	000517BX60_1B-LCS	20	19	95	80 - 120	
Toluene	P0005046-01-MS	20	20	100	76 - 125	
Toluene	P0005046-01-MSD	20	20	100	76 - 125	0.
Ethylbenzene	000517BX60_1B-LCS	20	19	95	80 - 120	
Ethylbenzene	P0005046-01-MS	20	19	95	70 - 130	
Ethylbenzene	P0005046-01-MSD	20	20	100	70 - 130	0.
Total Xylenes	000517BX60_1B-LCS	60	59	98	80 - 120	
Total Xylenes	P0005046-01-MS	60	58	97	70 - 130	
Total Xylenes	P0005046-01-MSD	60	61	102	70 - 130	0.

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Alkalinity, Total	000519ALK-LCS	125	123.96	99	90 - 109	
Alkalinity, Total	000519ALK-LCSD	125	121.84	97	90 - 109	1.7

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Fluoride	000519F-LCS	2	1.85	93	84 - 109	
Fluoride	000519F-LCSD	2	1.82	91	84 - 109	1.6
Fluoride	L0005171-01-MS	1	1.66	103	71 - 126	
Fluoride	L0005171-01-MSD	1	1.64	101	71 - 126	2.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Calcium	P05045I-LCS	20	19.6	98	85 - 115	
Calcium	P0005045-01-MS	20	64.3	101	75 - 125	
Calcium	P0005045-01-MSD	20	65.7	109	75 - 125	6.7
Magnesium	P05045I-LCS	20	19.6	98	85 - 115	
Magnesium	P0005045-01-MS	20	34.9	99	75 - 125	
Magnesium	P0005045-01-MSD	20	35.5	102	75 - 125	3.
Potassium	P05045I-LCS	20	20.2	101	85 - 115	
Potassium	P0005045-01-MS	20	23.8	98	75 - 125	
Potassium	P0005045-01-MSD	20	24	99	75 - 125	1.
Sodium	P05045I-LCS	20	21.5	108	85 - 115	
Sodium	P0005045-01-MS	20	93.5	108	75 - 125	
Sodium	P0005045-01-MSD	20	95.4	117	75 - 125	8.5

ND - Not Detected

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EL PASO NATURAL GAS

DYE 5/19

Vegas lead

CHAIN OF CUSTODY RECORD

P000S-045

Page ____ of ____

PROJECT NUMBER	PROJECT NAME	SAMPLERS: (Signature)	DATE:
	JAL #4	Ian Brunlee	5/10/00

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: Anions Cations	See Attached	TDS	sp. cond.	BTEX
01	5/10/00	1545	H2O	MOD-0094	5		X	X	X	X	X

CONTRACT LABORATORY

REMARKS

Run 8260 BTEX
OK to Run out of
Hold Time per
Wendy R. 5-12-00 1200

Custody Seal Intact: Y N None Temp: 15°C
Condition when received: Poor Good

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Ian Brunlee	5/11/00 0800	VIA	FED-X	5/12 0940	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FM-08-0566 (Rev 4-98)

NEL LABORATORIES
Reno • Las Vegas
Phoenix • So. California

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4
PROJECT NUMBER: NA

NEL ORDER ID: P0005051

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 5/13/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

Hr - Sample was received beyond holding time for this parameter.

Stan Van Wagenen
Laboratory Manager

6/2/00
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES
Reno • Las Vegas
Phoenix • So. California

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4
PROJECT NUMBER: NA

NEL ORDER ID: P0005051

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 5/13/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

Hr - Sample was received beyond holding time for this parameter.

Stan Van Wagenen
Laboratory Manager

6/2/00
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Fluoride	000517F-LCS	2	1.83	92	84 - 109	
Fluoride	000517F-LCSD	2	1.87	94	84 - 109	2.2
Fluoride	P0005039-01-MS	4	13.1	107	71 - 126	
Fluoride	P0005039-01-MSD	4	13.1	107	71 - 126	0.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Alkalinity, Total	000519ALK-LCS	125	123.96	99	90 - 109	
Alkalinity, Total	000519ALK-LCSD	125	121.84	97	90 - 109	1.7

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Benzene	000519BX60_2A-LCS	20	19.21	96	80 - 120	
Benzene	P0005061-01-MS	20	23.81	119	76 - 127	
Benzene	P0005061-01-MSD	20	23.61	118	76 - 127	0.8
Toluene	000519BX60_2A-LCS	20	19.56	98	80 - 120	
Toluene	P0005061-01-MS	20	23.36	117	76 - 125	
Toluene	P0005061-01-MSD	20	23.41	117	76 - 125	0.2
Ethylbenzene	000519BX60_2A-LCS	20	19.33	97	80 - 120	
Ethylbenzene	P0005061-01-MS	20	23	115	70 - 130	
Ethylbenzene	P0005061-01-MSD	20	22.69	113	70 - 130	1.4
Total Xylenes	000519BX60_2A-LCS	60	60.19	100	80 - 120	
Total Xylenes	P0005061-01-MS	60	70.37	117	70 - 130	
Total Xylenes	P0005061-01-MSD	60	69.66	116	70 - 130	1.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Calcium	P05049I-LCS	20	20.5	102	85 - 115	
Calcium	P0005049-01-MS	20	68.9	110	75 - 125	
Calcium	P0005049-01-MSD	20	69.3	111	75 - 125	1.8
Magnesium	P05049I-LCS	20	19.7	99	85 - 115	
Magnesium	P0005049-01-MS	20	33.9	99	75 - 125	
Magnesium	P0005049-01-MSD	20	34	100	75 - 125	0.5
Potassium	P05049I-LCS	20	19.8	99	85 - 115	
Potassium	P0005049-01-MS	20	24.7	99	75 - 125	
Potassium	P0005049-01-MSD	20	24.8	99	75 - 125	0.5
Sodium	P05049I-LCS	20	19.8	99	85 - 115	
Sodium	P0005049-01-MS	20	99	115	75 - 125	
Sodium	P0005049-01-MSD	20	99.7	119	75 - 125	3.

ND - Not Detected

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EL PASO NATURAL GAS

+ TMC 5/22

CHAIN OF CUSTODY RECORD

P0000505 1

Page _____ of _____

PROJECT NUMBER	PROJECT NAME	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS					CONTRACT LABORATORY
	JAL #4			CATIONS + ANIONS	SEE ATTACHED	SP. COND.	TDS	BTEX	
SAMPLERS: (Signature)	DATE: 5/11/00								
LAB ID / DATE / TIME / MATRIX / SAMPLE NUMBER									REMARKS
01 / 5/11/00 / 1515 / H2O / MW-0097				X	X	X	X	X	* Analyze per test hole per Client Run 8260 ~~5-15-00~~

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	5/12/00 1500	Via FedEx		5/13/00 12:10	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)
	5/15/00 0900				

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO

BILL NO.:

SAMPLE RECEIPT REMARKS

Custody Seal Intact: Y N None Temp: 4°C

Condition when received: Poor Good

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

White - *Testing Laboratory* Canary - *EPNG Lab* Pink - *Field Sampler*

FM-08-0566 (Rev 4-98)

NEL LABORATORIES
Reno • Las Vegas
Phoenix • So. California

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4
PROJECT NUMBER: NA

NEL ORDER ID: P0005050

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 5/13/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Stan Van Wagenen
Laboratory Manager

5/23/00
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0099
PROJECT ID:	JAL #4	DATE SAMPLED:	5/12/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005050-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	1400	100.	1000	EPA 300.0	mg/L	5/16/00
Specific Conductance	3620	1.	1	SM 2510 B	µS/cm	5/16/00
Total Dissolved Solids	2430	30.	2	SM 2540 C	mg/L	5/16/00

D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0100**
DATE SAMPLED: 5/12/00
NEL SAMPLE ID: P0005050-02

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	2500	500.	5000	EPA 300.0	mg/L	5/16/00
Specific Conductance	7830	1.	1	SM 2510 B	µS/cm	5/16/00
Total Dissolved Solids	4810	60.	4	SM 2540 C	mg/L	5/16/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0101**
PROJECT ID:	JAL #4	DATE SAMPLED:	5/12/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005050-03

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	3100	500.	5000	EPA 300.0	mg/L	5/16/00
Specific Conductance	7960	1.	1	SM 2510 B	µS/cm	5/16/00
Total Dissolved Solids	4930	60.	4	SM 2540 C	mg/L	5/16/00

D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000516IC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	5/16/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000516TDS-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	5/16/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Specific Conductance	000516COND-LCS	1412	1419	100	95 - 105	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	000516IC-LCS	100	106	106	90 - 110	
Chloride	000516IC-LCSD	100	109	109	90 - 110	2.8
Chloride	P0005046-01-MS	100	175	114	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	000516TDS-LCS	1000	977	98	94 - 102	

ND - Not Detected

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EL PASO NATURAL GAS Date 5/22

CHAIN OF CUSTODY RECORD

Vanessa Hood / P000505-0

Page ____ of ____

PROJECT NUMBER	PROJECT NAME	SAMPLERS: (Signature)	DATE:
	JAL #4	[signature]	5/12/00

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: Cl	TDS	sp. cond.				REMARKS
01	5/12/00	1134	H2O	MOO-0099	1		X	X	X				
02	5/12/00	1308	H2O	MOO-0100	1		X	X	X				
03	5/12/00	1308	H2O	MOO-0101	1		X	X	X				

CONTRACT LABORATORY

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	5/12/00 1500	Via Fed EX		5/13/00 12:10	Vanessa Hood
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)
Vanessa Hood	5/15/00 0900	[signature] NPU-14			

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO

BILL NO.

SAMPLE RECEIPT REMARKS
Custody Seal Intact: Y N None Temp: 11.0
Condition when received: Poor Good

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

White - *Testing Laboratory* Canary - *EPNG Lab* Pink - *Field Sampler*

FM-08-0566 (Rev 4-98)

NEL LABORATORIES
Reno • Las Vegas
Phoenix • So. California

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4
PROJECT NUMBER: NA

NEL ORDER ID: P0005049

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 5/13/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

Hr - Sample was received beyond holding time for this parameter.

Stan Van Wagenen
Laboratory Manager

6/7/00
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0095
PROJECT ID:	JAL #4	DATE SAMPLED:	5/11/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005049-01
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	47	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00
Magnesium	14	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00
Potassium	4.9	2. mg/L	1	EPA 6010	5/17/00	5/18/00
Silica	29	2. mg/L	2	SM 4500Si-D	NA	5/16/00
Sodium	76	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0096
PROJECT ID:	JAL #4	DATE SAMPLED:	5/11/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005049-02
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	48	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00
Magnesium	16	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00
Potassium	6.6	2. mg/L	1	EPA 6010	5/17/00	5/18/00
Silica	30	2. mg/L	2	SM 4500Si-D	NA	5/16/00
Sodium	88	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	*El Paso Natural Gas Company*	*CLIENT ID:*	***M00-0098***
PROJECT ID:	JAL #4	DATE SAMPLED:	5/11/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005049-03
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	150	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00
Magnesium	51	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00
Potassium	9.3	2. mg/L	1	EPA 6010	5/17/00	5/18/00
Silica	28	2. mg/L	2	SM 4500Si-D	NA	5/16/00
Sodium	120	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0102**
PROJECT ID:	JAL #4	DATE SAMPLED:	5/12/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005049-04
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00
Magnesium	ND	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00
Potassium	ND	2. mg/L	1	EPA 6010	5/17/00	5/18/00
Silica	ND	1. mg/L	1	SM 4500Si-D	NA	5/16/00
Sodium	ND	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0103**
PROJECT ID:	JAL #4	DATE SAMPLED:	5/12/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005049-05
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	49	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00
Magnesium	13	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00
Potassium	4.4	2. mg/L	1	EPA 6010	5/17/00	5/18/00
Silica	22	2. mg/L	2	SM 4500Si-D	NA	5/16/00
Sodium	72	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0104
PROJECT ID:	JAL #4	DATE SAMPLED:	5/12/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005049-06
TEST:	Cations by EPA 6010A		
MATRIX:	Aqueous	ANALYST:	JF - Reno Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00
Magnesium	ND	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00
Potassium	ND	2. mg/L	1	EPA 6010	5/17/00	5/18/00
Silica	ND	1. mg/L	1	SM 4500Si-D	NA	5/16/00
Sodium	ND	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P050491-BLK

TEST: **Cations by EPA 6010A**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00
Magnesium	ND	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00
Potassium	ND	2. mg/L	1	EPA 6010	5/17/00	5/18/00
Sodium	ND	0.5 mg/L	1	EPA 6010	5/17/00	5/18/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P05051-Si-BLK

TEST: **Silicon Oxide by Standard Method 3111D**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	NA	5/16/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M00-0095
DATE SAMPLED: 5/11/00
NEL SAMPLE ID: P0005049-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	170			1	SM 2320 B	mg/L	5/17/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	5/17/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	5/17/00
Alkalinity, Total	170		25.	1	SM 2320 B	mg/L	5/17/00
Bromide	0.34		0.2	1	EPA 300.0	mg/L	5/16/00
Chloride	49		5.	50	EPA 300.0	mg/L	5/16/00
Fluoride	1.4		0.4	1	SM 4500-F C	mg/L	5/18/00
Hardness, Total (as CaCO3)	170		2.	1	EPA 200.7	mg/L	5/17/00
Nitrate, as N	0.86	Hr	0.5	5	EPA 300.0	mg/L-N	5/15/00
pH	7.95	Hr	2.	1	EPA 150.1	pH Units	5/16/00
pH Temperature	18.4	Hr	1.	1	EPA 150.1	°C	5/16/00
Specific Conductance	654		1.	1	SM 2510 B	µS/cm	5/16/00
Sulfate	91		5.	50	EPA 300.0	mg/L	5/16/00
Total Dissolved Solids	431		15.	1	SM 2540 C	mg/L	5/16/00

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M00-0096
DATE SAMPLED: 5/11/00
NEL SAMPLE ID: P0005049-02

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	170			1	SM 2320 B	mg/L	5/17/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	5/17/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	5/17/00
Alkalinity, Total	170		25.	1	SM 2320 B	mg/L	5/17/00
Bromide	0.33		0.2	1	EPA 300.0	mg/L	5/16/00
Chloride	47		5.	50	EPA 300.0	mg/L	5/16/00
Fluoride	1.3		0.4	1	SM 4500-F C	mg/L	5/18/00
Hardness, Total (as CaCO3)	190		2.	1	EPA 200.7	mg/L	5/17/00
Nitrate, as N	1.5	Hr	0.5	5	EPA 300.0	mg/L-N	5/15/00
pH	8.00	Hr	2.	1	EPA 150.1	pH Units	5/16/00
pH Temperature	18.2	Hr	1.	1	EPA 150.1	°C	5/16/00
Specific Conductance	697		1.	1	SM 2510 B	µS/cm	5/16/00
Sulfate	120		5.	50	EPA 300.0	mg/L	5/16/00
Total Dissolved Solids	459		15.	1	SM 2540 C	mg/L	5/16/00

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M00-0098
DATE SAMPLED: 5/11/00
NEL SAMPLE ID: P0005049-03

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	140			1	SM 2320 B	mg/L	5/17/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	5/17/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	5/17/00
Alkalinity, Total	140		25.	1	SM 2320 B	mg/L	5/17/00
Bromide	0.47		0.2	1	EPA 300.0	mg/L	5/16/00
Chloride	470		50.	500	EPA 300.0	mg/L	5/16/00
Fluoride	1.2		0.4	1	SM 4500-F C	mg/L	5/18/00
Hardness, Total (as CaCO3)	590		2.	1	EPA 200.7	mg/L	5/17/00
Nitrate, as N	0.15	Hr	0.1	1	EPA 300.0	mg/L-N	5/16/00
pH	7.88	Hr	2.	1	EPA 150.1	pH Units	5/16/00
pH Temperature	18.5	Hr	1.	1	EPA 150.1	°C	5/16/00
Specific Conductance	1590		1.	1	SM 2510 B	µS/cm	5/16/00
Sulfate	100		5.	50	EPA 300.0	mg/L	5/16/00
Total Dissolved Solids	989		15.	1	SM 2540 C	mg/L	5/16/00

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0102**
DATE SAMPLED: 5/12/00
NEL SAMPLE ID: P0005049-04

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND			1	SM 2320 B	mg/L	5/17/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	5/17/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	5/17/00
Alkalinity, Total	ND		25.	1	SM 2320 B	mg/L	5/17/00
Bromide	ND		0.2	1	EPA 300.0	mg/L	5/15/00
Chloride	6.1		0.5	5	EPA 300.0	mg/L	5/16/00
Fluoride	ND		0.4	1	SM 4500-F C	mg/L	5/18/00
Hardness, Total (as CaCO3)	ND		2.	1	EPA 200.7	mg/L	5/17/00
Nitrate, as N	ND	Hr	0.1	1	EPA 300.0	mg/L-N	5/15/00
pH	7.13	Hr	2.	1	EPA 150.1	pH Units	5/16/00
pH Temperature	18.5	Hr	1.	1	EPA 150.1	°C	5/16/00
Specific Conductance	41		1.	1	SM 2510 B	µS/cm	5/16/00
Sulfate	1.4		0.1	1	EPA 300.0	mg/L	5/15/00
Total Dissolved Solids	42		15.	1	SM 2540 C	mg/L	5/16/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0103**
DATE SAMPLED: 5/12/00
NEL SAMPLE ID: P0005049-05

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	150			1	SM 2320 B	mg/L	5/17/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	5/17/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	5/17/00
Alkalinity, Total	150		25.	1	SM 2320 B	mg/L	5/17/00
Bromide	0.54		0.2	1	EPA 300.0	mg/L	5/16/00
Chloride	91		10.	100	EPA 300.0	mg/L	5/19/00
Fluoride	1.6		0.4	1	SM 4500-F C	mg/L	5/18/00
Hardness, Total (as CaCO3)	170		2.	1	EPA 200.7	mg/L	5/17/00
Nitrate, as N	ND	Hr	0.1	1	EPA 300.0	mg/L-N	5/16/00
pH	8.22	Hr	2.	1	EPA 150.1	pH Units	5/16/00
pH Temperature	18.5	Hr	1.	1	EPA 150.1	°C	5/16/00
Specific Conductance	670		1.	1	SM 2510 B	µS/cm	5/16/00
Sulfate	52		1.	10	EPA 300.0	mg/L	5/16/00
Total Dissolved Solids	405		15.	1	SM 2540 C	mg/L	5/16/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M00-0104
DATE SAMPLED: 5/12/00
NEL SAMPLE ID: P0005049-06

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		REPORTING LIMIT	D.F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND			1	SM 2320 B	mg/L	5/17/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	5/17/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	5/17/00
Alkalinity, Total	ND		25.	1	SM 2320 B	mg/L	5/17/00
Bromide	ND		0.2	1	EPA 300.0	mg/L	5/15/00
Chloride	ND		0.1	1	EPA 300.0	mg/L	5/15/00
Fluoride	ND		0.4	1	SM 4500-F C	mg/L	5/18/00
Hardness, Total (as CaCO3)	ND		2.	1	EPA 200.7	mg/L	5/17/00
Nitrate, as N	ND	Hr	0.1	1	EPA 300.0	mg/L-N	5/15/00
pH	5.47	Hr	2.	1	EPA 150.1	pH Units	5/16/00
pH Temperature	18.6	Hr	1.	1	EPA 150.1	°C	5/16/00
Specific Conductance	6		1.	1	SM 2510 B	µS/cm	5/16/00
Sulfate	ND		0.1	1	EPA 300.0	mg/L	5/15/00
Total Dissolved Solids	17		15.	1	SM 2540 C	mg/L	5/16/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000515IC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	5/15/00
Chloride	ND	0.1	1	EPA 300.0	mg/L	5/15/00
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	5/15/00
Sulfate	ND	0.1	1	EPA 300.0	mg/L	5/15/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000516IC-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	5/16/00
Chloride	ND	0.1	1	EPA 300.0	mg/L	5/16/00
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	5/16/00
Sulfate	ND	0.1	1	EPA 300.0	mg/L	5/16/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000516TDS-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	*REPORTING* LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	5/16/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000517ALK-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND		1	SM 2320 B	mg/L	5/17/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	5/17/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	5/17/00
Alkalinity, Total	ND	25	1	SM 2320 B	mg/L	5/17/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	*JAL #4*	*DATE SAMPLED:*	NA
PROJECT #:	NA	NEL SAMPLE ID:	000518F-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	5/18/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000519IC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	5/19/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0095
PROJECT ID:	JAL #4	DATE SAMPLED:	5/11/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005049-01

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	5/19/00
DILUTION:	1	ANALYZED:	5/19/00

PARAMETER	Result	Reporting Limit
Benzene	ND	5 µg/L
Toluene	ND	5 µg/L
Ethylbenzene	ND	5 µg/L
Total Xylenes	ND	10 ug/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	100	75 - 125
Toluene-d8	100	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0096**
PROJECT ID:	JAL #4	DATE SAMPLED:	5/11/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005049-02

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	5/19/00
DILUTION:	1	ANALYZED:	5/19/00

PARAMETER	Result	Reporting Limit
Benzene	ND	5 µg/L
Toluene	ND	5 µg/L
Ethylbenzene	ND	5 µg/L
Total Xylenes	ND	10 µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	99	75 - 125
Toluene-d8	100	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0098**
PROJECT ID:	JAL #4	DATE SAMPLED:	5/11/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005049-03

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	5/19/00
DILUTION:	1	ANALYZED:	5/19/00

PARAMETER	Result	Reporting Limit
Benzene	ND	5 µg/L
Toluene	ND	5 µg/L
Ethylbenzene	ND	5 µg/L
Total Xylenes	ND	10 µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	101	75 - 125
Toluene-d8	101	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0102
PROJECT ID:	JAL #4	DATE SAMPLED:	5/12/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005049-04

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	5/19/00
DILUTION:	1	ANALYZED:	5/19/00

PARAMETER	Result	Reporting Limit
Benzene	ND	5 µg/L
Toluene	ND	5 µg/L
Ethylbenzene	ND	5 µg/L
Total Xylenes	ND	10 µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	99	75 - 125
Toluene-d8	100	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0103**
PROJECT ID:	JAL #4	DATE SAMPLED:	5/12/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005049-05
TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	5/19/00
DILUTION:	1	ANALYZED:	5/19/00

PARAMETER	Result	Reporting Limit
Benzene	ND	5 µg/L
Toluene	ND	5 µg/L
Ethylbenzene	ND	5 µg/L
Total Xylenes	ND	10 µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	101	75 - 125
Toluene-d8	101	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0104**
PROJECT ID:	JAL #4	DATE SAMPLED:	5/12/00
PROJECT #:	NA	NEL SAMPLE ID:	P0005049-06

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	5/19/00
DILUTION:	1	ANALYZED:	5/19/00

PARAMETER	Result	Reporting Limit
Benzene	ND	5 µg/L
Toluene	ND	5 µg/L
Ethylbenzene	ND	5 µg/L
Total Xylenes	ND	10 µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	101	75 - 125
Toluene-d8	101	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000519BX60_2A-BLK

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	5/19/00
		ANALYZED:	5/19/00

PARAMETER	Result	Reporting Limit
Benzene	ND	5. µg/L
Toluene	ND	5. µg/L
Ethylbenzene	ND	5. µg/L
Total Xylenes	ND	10. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	99	75 - 125
Toluene-d8	99	88 - 110

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	000515IC-LCS	100	101	101	90 - 110	
Chloride	000515IC-LCSD	100	102	102	90 - 110	1.
Bromide	000515IC-LCS	100	102	102	90 - 110	
Bromide	000515IC-LCSD	100	104	104	90 - 110	1.9
Bromide	P0005049-03-MS	100	105.5	105	80 - 120	
Sulfate	000515IC-LCS	100	97	97	90 - 110	
Sulfate	000515IC-LCSD	100	101	101	90 - 110	4.
Nitrate, as N	000515IC-LCS	100	99	99	90 - 110	
Nitrate, as N	000515IC-LCSD	100	99	99	90 - 110	0.
Nitrate, as N	P0005049-03-MS	100	99.15	99	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Specific Conductance	000516COND-LCS	1412	1419	100	95 - 105	

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	000516IC-LCS	100	106	106	90 - 110	
Chloride	000516IC-LCSD	100	109	109	90 - 110	2.8
Chloride	P0005046-01-MS	100	175	114	80 - 120	
Bromide	000516IC-LCS	100	106	106	90 - 110	
Bromide	000516IC-LCSD	100	105	105	90 - 110	0.9
Bromide	P0005046-01-MS	100	106.4	106	80 - 120	
Sulfate	000516IC-LCS	100	102	102	90 - 110	
Sulfate	000516IC-LCSD	100	103	103	90 - 110	1.
Sulfate	P0005046-01-MS	100	194	84	80 - 120	
Nitrate, as N	000516IC-LCS	100	102	102	90 - 110	
Nitrate, as N	000516IC-LCSD	100	101	101	90 - 110	1.
Nitrate, as N	P0005046-01-MS	100	105.8	104	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
7.00 Buffer	000516pH-LCS	7	6.99	100	99 - 101	
7.00 Buffer	000516pH-LCSD	7	7.02	100	99 - 101	0.4

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	000516TDS-LCS	1000	977	98	94 - 102	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Drinking Water

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Alkalinity, Total	000517ALK-LCS	125	121.56	97	90 - 109	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Fluoride	000518F-LCS	2	1.98	99	84 - 109	
Fluoride	000518F-LCSD	2	1.83	92	84 - 109	7.9
Fluoride	P0005041-02-MS	1	0.96	96	71 - 126	
Fluoride	P0005041-02-MSD	1	1	100	71 - 126	4.1

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Benzene	000519BX60_2A-LCS	20	19.21	96	80 - 120	
Benzene	P0005061-01-MS	20	23.81	119	76 - 127	
Benzene	P0005061-01-MSD	20	23.61	118	76 - 127	0.8
Toluene	000519BX60_2A-LCS	20	19.56	98	80 - 120	
Toluene	P0005061-01-MS	20	23.36	117	76 - 125	
Toluene	P0005061-01-MSD	20	23.41	117	76 - 125	0.2
Ethylbenzene	000519BX60_2A-LCS	20	19.33	97	80 - 120	
Ethylbenzene	P0005061-01-MS	20	23	115	70 - 130	
Ethylbenzene	P0005061-01-MSD	20	22.69	113	70 - 130	1.4
Total Xylenes	000519BX60_2A-LCS	60	60.19	100	80 - 120	
Total Xylenes	P0005061-01-MS	60	70.37	117	70 - 130	
Total Xylenes	P0005061-01-MSD	60	69.66	116	70 - 130	1.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	000519IC-LCS	100	95	95	90 - 110	
Chloride	000519IC-LCSD	100	101	101	90 - 110	6.1

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Calcium	P05049I-LCS	20	20.5	102	85 - 115	
Calcium	P0005049-01-MS	20	68.9	110	75 - 125	
Calcium	P0005049-01-MSD	20	69.3	111	75 - 125	1.8
Magnesium	P05049I-LCS	20	19.7	99	85 - 115	
Magnesium	P0005049-01-MS	20	33.9	99	75 - 125	
Magnesium	P0005049-01-MSD	20	34	100	75 - 125	0.5
Potassium	P05049I-LCS	20	19.8	99	85 - 115	
Potassium	P0005049-01-MS	20	24.7	99	75 - 125	
Potassium	P0005049-01-MSD	20	24.8	99	75 - 125	0.5
Sodium	P05049I-LCS	20	19.8	99	85 - 115	
Sodium	P0005049-01-MS	20	99	115	75 - 125	
Sodium	P0005049-01-MSD	20	99.7	119	75 - 125	3.

ND - Not Detected

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EL PASO NATURAL GAS

Due 5/22

Vegas lead

CHAIN OF CUSTODY RECORD P0005049

Page ____ of ____

PROJECT NUMBER	PROJECT NAME	SAMPLERS: (Signature)	DATE:
	Jal #4		5/11/00

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: CATIONS + ANIONS	SEE ATTACHED SP. COND.	TDS	BTEX	REMARKS
01	5/11/00	1125	H_2O	MOO-0095	5		X	X	X	X	X	* Analyze piper hold per Client Run 8260 @ 5-15-00
02	5/11/00	1345	H_2O	MOO-0096	5		X	X	X	X	X	
03	5/11/00	1640	H_2O	MOO-0098	5		X	X	X	X	X	
04	5/12/00	1333	H_2O	MOO-0102	5		X	X	X	X	X	
05	5/12/00	1340	H_2O	MOO-0103	5		X	X	X	X	X	
06	5/12/00	1430	H_2O	MOO-0104	5		X	X	X	X	X	

CONTRACT LABORATORY

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	5/12/00 1500	Via FedEX		5/13/00 12:10	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)
	5/13/00 0900				

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO

BILL NO.:

SAMPLE RECEIPT REMARKS

Custody Seal Intact: Y N None Temp: 4°C LF

Condition when received: Poor Good

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

White - *Testing Laboratory* Canary - *EPNG Lab* Pink - *Field Sampler*

FM-08 0566 (Rev 4-98)

SAMPLE KEY

SAMPLE NUMBER: M00-0193 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: EMP #3 before purging wells
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 14:00 SAMPLE DATE: 08/07/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0194 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: Bailer Blank before sampling wells
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 14:10 SAMPLE DATE: 08/07/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0195 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: ~~Monitor Well #15~~ ACW-14
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:35 SAMPLE DATE: 08/07/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0196 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: Production well OXY
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 18:10 SAMPLE DATE: 08/07/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0197 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well #12
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 18:55 SAMPLE DATE: 08/07/2000

ORIGINAL

SAMPLE KEY

SAMPLE NUMBER: M00-0198 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well # ACW #13
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:40 SAMPLE DATE: 08/08/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0199 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: Monitor Well # ACW #13 Dup.
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:40 SAMPLE DATE: 08/08/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0200 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: Monitor ~~Well ACW #17~~ ACW #15
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:44 SAMPLE DATE: 08/08/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0201 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: Bailer after sampling wells
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:05 SAMPLE DATE: 08/08/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0202 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: Pump Blank after purging wells
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:10 SAMPLE DATE: 08/08/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0203 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: Field blank
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:15 SAMPLE DATE: 08/08/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0204 LOCATION: Jal #4 Plant
MATRIX: Water
SAMPLE DESCRIPTION: Dooms water well
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:30 SAMPLE DATE: 08/14/2000 – or 8/8/00 (see pg 27)

NEL LABORATORIES
Reno • Las Vegas • Boise
Phoenix • Sacramento

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Steve Brisbin

PROJECT NAME: JAL #4 NEL ORDER ID: P0008032
PROJECT NUMBER: NA

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 8/10/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

Hr - Sample was received beyond holding time for this parameter.

Stan Van Wagenen
Laboratory Manager

8/17/00
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0193**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/7/00
PROJECT #:	NA	NEL SAMPLE ID:	P0008032-01
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

Emp. #3 before purging

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	30	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Magnesium	9.5	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Potassium	3.1	2. mg/L	1	EPA 6010	8/11/00	8/14/00
Silica	21	2. mg/L	2	SM 4500Si-D	8/14/00	8/14/00
Sodium	78	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0194**	
PROJECT ID:	JAL #4	DATE SAMPLED:	8/7/00	Bailer Blank
PROJECT #:	NA	NEL SAMPLE ID:	P0008032-02	Before Sampling
TEST:	**Cations by EPA 6010A**			
MATRIX:	Aqueous	ANALYST:	FKA - Division	

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Magnesium	ND	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Potassium	ND	2. mg/L	1	EPA 6010	8/11/00	8/14/00
Silica	ND	1. mg/L	1	SM 4500Si-D	8/14/00	8/14/00
Sodium	ND	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0195**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/7/00
PROJECT #:	NA	NEL SAMPLE ID:	P0008032-03
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

MW -15 14

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	50	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Magnesium	18	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Potassium	6.0	2. mg/L	1	EPA 6010	8/11/00	8/14/00
Silica	39	2. mg/L	2	SM 4500Si-D	8/14/00	8/14/00
Sodium	95	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0197
PROJECT ID:	JAL #4	DATE SAMPLED:	8/7/00
PROJECT #:	NA	NEL SAMPLE ID:	P0008032-04
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

MW-12

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	140	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Magnesium	45	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Potassium	10	2. mg/L	1	EPA 6010	8/11/00	8/14/00
Silica	33	2. mg/L	2	SM 4500Si-D	8/14/00	8/14/00
Sodium	110	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0198
PROJECT ID:	JAL #4	DATE SAMPLED:	8/8/00
PROJECT #:	NA	NEL SAMPLE ID:	P0008032-05

ACW #13

TEST: **Cations by EPA 6010A**
MATRIX: Aqueous ANALYST: FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	49	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Magnesium	15	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Potassium	5.8	2. mg/L	1	EPA 6010	8/11/00	8/14/00
Silica	ND	2. mg/L	2	SM 4500Si-D	8/14/00	8/14/00
Sodium	82	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0199**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/8/00
PROJECT #:	NA	NEL SAMPLE ID:	P0008032-06
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

ACW #13 Dup.

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	50	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Magnesium	16	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Potassium	6.0	2. mg/L	1	EPA 6010	8/11/00	8/14/00
Silica	37	2. mg/L	2	SM 4500Si-D	8/14/00	8/14/00
Sodium	84	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
CLIENT ID: M00-0200
DATE SAMPLED: 8/8/00
NEL SAMPLE ID: P0008032-07

Acw #17 13

TEST: **Cations by EPA 6010A**
MATRIX: Aqueous
ANALYST: FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	45	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Magnesium	14	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Potassium	9.1	2. mg/L	1	EPA 6010	8/11/00	8/14/00
Silica	34	2. mg/L	2	SM 4500Si-D	8/14/00	8/14/00
Sodium	77	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0201**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/8/00
PROJECT #:	NA	NEL SAMPLE ID:	P0008032-08
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

Bailer Blank
After Sampling

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Magnesium	ND	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Potassium	ND	2. mg/L	1	EPA 6010	8/11/00	8/14/00
Silica	ND	1. mg/L	1	SM 4500Si-D	8/14/00	8/14/00
Sodium	ND	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0202**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/8/00
PROJECT #:	NA	NEL SAMPLE ID:	P0008032-09
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

Pump Blank After Purging

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	44	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Magnesium	12	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Potassium	4.1	2. mg/L	1	EPA 6010	8/11/00	8/14/00
Silica	21	2. mg/L	2	SM 4500Si-D	8/14/00	8/14/00
Sodium	72	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0203
PROJECT ID:	JAL #4	DATE SAMPLED:	8/8/00
PROJECT #:	NA	NEL SAMPLE ID:	P0008032-10

Field Blank

TEST: Cations by EPA 6010A
MATRIX: Aqueous ANALYST: FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Magnesium	ND	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Potassium	ND	2. mg/L	1	EPA 6010	8/11/00	8/14/00
Silica	ND	1. mg/L	1	SM 4500Si-D	8/14/00	8/14/00
Sodium	ND	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0196
PROJECT ID:	JAL #4	DATE SAMPLED:	8/7/00
PROJECT #:	NA	NEL SAMPLE ID:	P0008032-11

OXY Production Well

TEST: **Cations by EPA 6010A**
MATRIX: Aqueous ANALYST: FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	74	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Magnesium	21	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Potassium	5.2	2. mg/L	1	EPA 6010	8/11/00	8/14/00
Silica	48	4. mg/L	4	SM 4500Si-D	8/14/00	8/14/00
Sodium	68	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P08032-Icat-BLK

TEST: **Cations by EPA 6010A**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Magnesium	ND	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00
Potassium	ND	2. mg/L	1	EPA 6010	8/11/00	8/14/00
Sodium	ND	0.5 mg/L	1	EPA 6010	8/11/00	8/14/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P08032-SI-BLK

TEST: **Silicon Oxide by Standard Method 3111D**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	8/14/00	8/14/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P08032SI-BLK

TEST: **Silicon Oxide by Standard Method 3111D**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	8/14/00	8/14/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0193**
DATE SAMPLED: 8/7/00
NEL SAMPLE ID: P0008032-01

EMP #3
Before purging

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	140			1	SM 2320 B	mg/L	8/12/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity, Total	140		25.	1	SM 2320 B	mg/L	8/12/00
Bromide	0.29		0.2	1	EPA 300.0	mg/L	8/14/00
Chloride	81		10.	100	EPA 300.0	mg/L	8/11/00
Fluoride	1.1		0.4	1	SM 4500-F C	mg/L	8/16/00
Hardness, Total (as CaCO3)	110		2.	1	EPA 6010	mg/L	8/14/00
Nitrate/Nitrite as N, Total	ND		0.05	1	SM 4500-NO3 F	mg/L-N	8/14/00
pH	7.49	Hr	2.	1	EPA 150.1	pH Units	8/12/00
pH Temperature	25.8		1.	1	EPA 150.1	°C	8/12/00
Specific Conductance	552		1.	1	SM 2510 B	µS/cm	8/14/00
Sulfate	38		1.	10	EPA 300.0	mg/L	8/11/00
Total Dissolved Solids	369		15.	1	SM 2540 C	mg/L	8/14/00

F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0194**
DATE SAMPLED: 8/7/00
NEL SAMPLE ID: P0008032-02

Baiber Blank
Before Sampling

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity, Total	ND		25.	1	SM 2320 B	mg/L	8/12/00
Bromide	ND		0.2	1	EPA 300.0	mg/L	8/14/00
Chloride	ND		0.1	1	EPA 300.0	mg/L	8/14/00
Fluoride	ND		0.4	1	SM 4500-F C	mg/L	8/16/00
Hardness, Total (as CaCO3)	ND		2.	1	EPA 6010	mg/L	8/14/00
Nitrate/Nitrite as N, Total	ND		0.05	1	SM 4500-NO3 F	mg/L-N	8/14/00
pH	6.15	Hr	2.	1	EPA 150.1	pH Units	8/12/00
pH Temperature	25.6		1.	1	EPA 150.1	°C	8/12/00
Specific Conductance	8.0		1.	1	SM 2510 B	µS/cm	8/14/00
Sulfate	ND		0.1	1	EPA 300.0	mg/L	8/14/00
Total Dissolved Solids	ND		15.	1	SM 2540 C	mg/L	8/14/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M00-0195
DATE SAMPLED: 8/7/00
NEL SAMPLE ID: P0008032-03

MW-15, 4

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	170			1	SM 2320 B	mg/L	8/12/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity, Total	170		25.	1	SM 2320 B	mg/L	8/12/00
Bromide	0.27		0.2	1	EPA 300.0	mg/L	8/14/00
Chloride	65		2.5	25	EPA 300.0	mg/L	8/11/00
Fluoride	1.5		0.4	1	SM 4500-F C	mg/L	8/16/00
Hardness, Total (as CaCO3)	200		2.	1	EPA 6010	mg/L	8/14/00
Nitrate/Nitrite as N, Total	1.8		0.5	10	SM 4500-NO3 F	mg/L-N	8/14/00
pH	7.69	Hr	2.	1	EPA 150.1	pH Units	8/12/00
pH Temperature	25.4		1.	1	EPA 150.1	°C	8/12/00
Specific Conductance	750		1.	1	SM 2510 B	µS/cm	8/14/00
Sulfate	110		2.5	25	EPA 300.0	mg/L	8/11/00
Total Dissolved Solids	439		15.	1	SM 2540 C	mg/L	8/14/00

.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0197**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/7/00
PROJECT #:	NA	NEL SAMPLE ID:	P0008032-04

MW-12

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	140			1	SM 2320 B	mg/L	8/12/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity, Total	140		25.	1	SM 2320 B	mg/L	8/12/00
Bromide	0.47		0.2	1	EPA 300.0	mg/L	8/14/00
Chloride	460		10.	100	EPA 300.0	mg/L	8/11/00
Fluoride	1.1		0.4	1	SM 4500-F C	mg/L	8/16/00
Hardness, Total (as CaCO3)	520		2.	1	EPA 6010	mg/L	8/14/00
Nitrate/Nitrite as N, Total	0.087		0.05	1	SM 4500-NO3 F	mg/L-N	8/14/00
pH	7.63	Hr	2.	1	EPA 150.1	pH Units	8/12/00
pH Temperature	25.4		1.	1	EPA 150.1	°C	8/12/00
Specific Conductance	1800		1.	1	SM 2510 B	µS/cm	8/14/00
Sulfate	110		10.	100	EPA 300.0	mg/L	8/11/00
Total Dissolved Solids	1270		15.	1	SM 2540 C	mg/L	8/14/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0198**
DATE SAMPLED: 8/8/00
NEL SAMPLE ID: P0008032-05

ACW #13

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	160			1	SM 2320 B	mg/L	8/12/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity, Total	160		25.	1	SM 2320 B	mg/L	8/12/00
Bromide	0.31		0.2	1	EPA 300.0	mg/L	8/14/00
Chloride	41		2.5	25	EPA 300.0	mg/L	8/14/00
Fluoride	1.3		0.4	1	SM 4500-F C	mg/L	8/16/00
Hardness, Total (as CaCO3)	180		2.	1	EPA 6010	mg/L	8/14/00
Nitrate/Nitrite as N, Total	1.2		0.05	1	SM 4500-NO3 F	mg/L-N	8/14/00
pH	7.90	Hr	2.	1	EPA 150.1	pH Units	8/12/00
pH Temperature	25.6		1.	1	EPA 150.1	°C	8/12/00
Specific Conductance	676		1.	1	SM 2510 B	µS/cm	8/14/00
Sulfate	100		2.5	25	EPA 300.0	mg/L	8/14/00
Total Dissolved Solids	363		15.	1	SM 2540 C	mg/L	8/14/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0199**
DATE SAMPLED: 8/8/00
NEL SAMPLE ID: P0008032-06

ACW #13 Dup.

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	160			1	SM 2320 B	mg/L	8/12/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity, Total	160		25.	1	SM 2320 B	mg/L	8/12/00
Bromide	0.30		0.2	1	EPA 300.0	mg/L	8/14/00
Chloride	44		1.	10	EPA 300.0	mg/L	8/11/00
Fluoride	1.4		0.4	1	SM 4500-F C	mg/L	8/16/00
Hardness, Total (as CaCO3)	180		2.	1	EPA 6010	mg/L	8/14/00
Nitrate/Nitrite as N, Total	1.2		0.05	1	SM 4500-NO3 F	mg/L-N	8/14/00
pH	7.94	Hr	2.	1	EPA 150.1	pH Units	8/12/00
pH Temperature	25.7		1.	1	EPA 150.1	°C	8/12/00
Specific Conductance	662		1.	1	SM 2510 B	µS/cm	8/14/00
Sulfate	95		10.	100	EPA 300.0	mg/L	8/11/00
Total Dissolved Solids	381		15.	1	SM 2540 C	mg/L	8/14/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M00-0200
DATE SAMPLED: 8/8/00
NEL SAMPLE ID: P0008032-07

ACW # 17 15

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	170			1	SM 2320 B	mg/L	8/12/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity, Total	170		25.	1	SM 2320 B	mg/L	8/12/00
Bromide	0.25		0.2	1	EPA 300.0	mg/L	8/14/00
Chloride	35		1.	10	EPA 300.0	mg/L	8/11/00
Fluoride	1.4		0.4	1	SM 4500-F C	mg/L	8/16/00
Hardness, Total (as CaCO3)	160		2.	1	EPA 6010	mg/L	8/14/00
Nitrate/Nitrite as N, Total	0.91		0.05	1	SM 4500-NO3 F	mg/L-N	8/14/00
pH	7.94	Hr	2.	1	EPA 150.1	pH Units	8/12/00
pH Temperature	25.6		1.	1	EPA 150.1	°C	8/12/00
Specific Conductance	605		1.	1	SM 2510 B	µS/cm	8/14/00
Sulfate	84		1.	10	EPA 300.0	mg/L	8/11/00
Total Dissolved Solids	340		15.	1	SM 2540 C	mg/L	8/14/00

F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0201**
DATE SAMPLED: 8/8/00
NEL SAMPLE ID: P0008032-08

Bailer Blank After Sampling

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity, Total	ND		25.	1	SM 2320 B	mg/L	8/12/00
Bromide	ND		0.2	1	EPA 300.0	mg/L	8/14/00
Chloride	ND		0.1	1	EPA 300.0	mg/L	8/14/00
Fluoride	ND		0.4	1	SM 4500-F C	mg/L	8/16/00
Hardness, Total (as CaCO3)	ND		2.	1	EPA 6010	mg/L	8/14/00
Nitrate/Nitrite as N, Total	ND		0.05	1	SM 4500-NO3 F	mg/L-N	8/14/00
pH	5.63	Hr	2.	1	EPA 150.1	pH Units	8/12/00
pH Temperature	25.8		1.	1	EPA 150.1	°C	8/12/00
Specific Conductance	4.0		1.	1	SM 2510 B	µS/cm	8/14/00
Sulfate	ND		0.1	1	EPA 300.0	mg/L	8/14/00
Total Dissolved Solids	ND		15.	1	SM 2540 C	mg/L	8/14/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M00-0202
DATE SAMPLED: 8/8/00
NEL SAMPLE ID: P0008032-09

Pump Blank
After purging

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	130			1	SM 2320 B	mg/L	8/12/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity, Total	130		25.	1	SM 2320 B	mg/L	8/12/00
Bromide	0.50		0.2	1	EPA 300.0	mg/L	8/14/00
Chloride	58		10.	100	EPA 300.0	mg/L	8/11/00
Fluoride	1.7		0.4	1	SM 4500-F C	mg/L	8/16/00
Hardness, Total (as CaCO3)	150		2.	1	EPA 6010	mg/L	8/14/00
Nitrate/Nitrite as N, Total	0.21		0.05	1	SM 4500-NO3 F	mg/L-N	8/14/00
pH	8.18	Hr	2.	1	EPA 150.1	pH Units	8/12/00
pH Temperature	25.9		1.	1	EPA 150.1	°C	8/12/00
Specific Conductance	600		1.	1	SM 2510 B	µS/cm	8/14/00
Sulfate	45		1.	10	EPA 300.0	mg/L	8/11/00
Total Dissolved Solids	317		15.	1	SM 2540 C	mg/L	8/14/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0203**
DATE SAMPLED: 8/8/00
NEL SAMPLE ID: P0008032-10 Field Blank

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity, Total	ND		25.	1	SM 2320 B	mg/L	8/12/00
Bromide	ND		0.2	1	EPA 300.0	mg/L	8/14/00
Chloride	ND		0.1	1	EPA 300.0	mg/L	8/14/00
Fluoride	ND		0.4	1	SM 4500-F C	mg/L	8/16/00
Hardness, Total (as CaCO3)	ND		2.	1	EPA 6010	mg/L	8/14/00
Nitrate/Nitrite as N, Total	ND		0.05	1	SM 4500-NO3 F	mg/L-N	8/14/00
pH	6.20	Hr	2.	1	EPA 150.1	pH Units	8/12/00
pH Temperature	25.8		1.	1	EPA 150.1	°C	8/12/00
Specific Conductance	2.0		1.	1	SM 2510 B	µS/cm	8/14/00
Sulfate	ND		0.1	1	EPA 300.0	mg/L	8/14/00
Total Dissolved Solids	ND		15.	1	SM 2540 C	mg/L	8/14/00

F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0196**
DATE SAMPLED: 8/7/00
NEL SAMPLE ID: P0008032-11

OXY Production Well

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	150			1	SM 2320 B	mg/L	8/12/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	8/12/00
Alkalinity, Total	150		25.	1	SM 2320 B	mg/L	8/12/00
Bromide	0.44		0.2	1	EPA 300.0	mg/L	8/14/00
Chloride	120		10.	100	EPA 300.0	mg/L	8/11/00
Fluoride	0.99		0.4	1	SM 4500-F C	mg/L	8/16/00
Hardness, Total (as CaCO3)	260		2.	1	EPA 6010	mg/L	8/14/00
Nitrate/Nitrite as N, Total	0.71		0.05	1	SM 4500-NO3 F	mg/L-N	8/14/00
pH	7.96	Hr	2.	1	EPA 150.1	pH Units	8/12/00
pH Temperature	25.9		1.	1	EPA 150.1	°C	8/12/00
Specific Conductance	802		1.	1	SM 2510 B	µS/cm	8/14/00
Sulfate	59		2.5	25	EPA 300.0	mg/L	8/11/00
Total Dissolved Solids	433		15.	1	SM 2540 C	mg/L	8/14/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0204**
DATE SAMPLED: 8/8/00
NEL SAMPLE ID: P0008032-12

Doams Water Well

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND		1	SM 2320 B	mg/L	8/12/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	8/12/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	8/12/00
Alkalinity, Total	ND	25.	1	SM 2320 B	mg/L	8/12/00

Was repeated e/14 (see report P0008044)

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000811IC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	8/11/00
Sulfate	ND	0.1	1	EPA 300.0	mg/L	8/11/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000812ALK-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND		1	SM 2320 B	mg/L	8/12/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	8/12/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	8/12/00
Alkalinity, Total	ND	25	1	SM 2320 B	mg/L	8/12/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000814IC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	8/14/00
Chloride	ND	0.1	1	EPA 300.0	mg/L	8/14/00
Sulfate	ND	0.1	1	EPA 300.0	mg/L	8/14/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000814NO2NO3A-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Nitrate/Nitrite as N, Total	ND	0.05	1	SM 4500-NO3 F	mg/L-N	8/14/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000814NO2NO3B-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Nitrate, as N	ND	0.05	1	SM 4500-NO3	mg/L-N	8/14/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000814TDS-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	8/14/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000816F-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	8/16/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0193**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/7/00
PROJECT #:	NA	NEL SAMPLE ID:	P0008032-01

EMP #3
Before Purging

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	JJM - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	8/11/00
DILUTION:	1	ANALYZED:	8/11/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	103	91 - 97
Toluene-d8	117	92 - 121

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0194
PROJECT ID:	JAL #4	DATE SAMPLED:	8/7/00
PROJECT #:	NA	NEL SAMPLE ID:	P0008032-02

Baiker Blank Before Sampling

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	JJM - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	8/11/00
DILUTION:	1	ANALYZED:	8/11/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	105	91 - 97
Toluene-d8	102	92 - 121

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0195
PROJECT ID:	JAL #4	DATE SAMPLED:	8/7/00
PROJECT #:	NA	NEL SAMPLE ID:	P0008032-03

MW-14

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	JJM - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	8/11/00
DILUTION:	1	ANALYZED:	8/11/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	107	91 - 97
Toluene-d8	100	92 - 121

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0197**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/7/00
PROJECT #:	NA	NEL SAMPLE ID:	P0008032-04

MW-12

TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	JJM - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	8/11/00
DILUTION:	1	ANALYZED:	8/11/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	108	91 - 97
Toluene-d8	104	92 - 121

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0198
PROJECT ID:	JAL #4	DATE SAMPLED:	8/8/00
PROJECT #:	NA	NEL SAMPLE ID:	P0008032-05

ACW #13

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	JJM - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	8/11/00
DILUTION:	1	ANALYZED:	8/11/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	102	91 - 97
Toluene-d8	104	92 - 121

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0199
PROJECT ID:	JAL #4	DATE SAMPLED:	8/8/00
PROJECT #:	NA	NEL SAMPLE ID:	P0008032-06

ACW #13 Dup.

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	JJM - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	8/11/00
DILUTION:	1	ANALYZED:	8/11/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	106	91 - 97
Toluene-d8	107	92 - 121

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0200
PROJECT ID:	JAL #4	DATE SAMPLED:	8/8/00
PROJECT #:	NA	NEL SAMPLE ID:	P0008032-07

ACW #14,5

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	JJM - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	8/11/00
DILUTION:	1	ANALYZED:	8/11/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	107	91 - 97
Toluene-d8	104	92 - 121

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0201
PROJECT ID:	JAL #4	DATE SAMPLED:	8/8/00
PROJECT #:	NA	NEL SAMPLE ID:	P0008032-08

Bailer Blank After Sampling

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	JJM - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	8/11/00
DILUTION:	1	ANALYZED:	8/11/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	105	91 - 97
Toluene-d8	104	92 - 121

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0202
PROJECT ID:	JAL #4	DATE SAMPLED:	8/8/00
PROJECT #:	NA	NEL SAMPLE ID:	P0008032-09

Pump Blank After Purging

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	JJM - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	8/11/00
DILUTION:	1	ANALYZED:	8/11/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	106	91 - 97
Toluene-d8	100	92 - 121

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0203**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/8/00
PROJECT #:	NA	NEL SAMPLE ID:	P0008032-10

Field Blank

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	JJM - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	8/11/00
DILUTION:	1	ANALYZED:	8/11/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	105	91 - 97
Toluene-d8	102	92 - 121

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0196
PROJECT ID:	JAL #4	DATE SAMPLED:	8/7/00
PROJECT #:	NA	NEL SAMPLE ID:	P0008032-11

OXY Production Well

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	JJM - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	8/11/00
DILUTION:	1	ANALYZED:	8/11/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	107	91 - 97
Toluene-d8	100	92 - 121

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000811BX60_2A-BLK

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	BJV - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	8/11/00
		ANALYZED:	8/11/00

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L
Naphthalene	ND	10. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	111	91 - 97
Toluene-d8	99	92 - 121

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Benzene	000811BX60_2A-LCS	50	48.96	98	80 - 120	
Benzene	L0008104-01-MS	50	51	102	76 - 127	
Benzene	L0008104-01-MSD	50	49	98	76 - 127	4.
Toluene	000811BX60_2A-LCS	50	49.87	100	80 - 120	
Toluene	L0008104-01-MS	50	51	102	76 - 125	
Toluene	L0008104-01-MSD	50	50	100	76 - 125	2.
Ethylbenzene	000811BX60_2A-LCS	50	48.44	97	80 - 120	
Ethylbenzene	L0008104-01-MS	50	50	100	70 - 130	
Ethylbenzene	L0008104-01-MSD	50	48	96	70 - 130	4.1
Total Xylenes	000811BX60_2A-LCS	150	152.64	102	80 - 120	
Total Xylenes	L0008104-01-MS	150	157	105	70 - 130	
Total Xylenes	L0008104-01-MSD	150	150	100	70 - 130	4.6

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	000811IC-LCS	100	98	98	90 - 110	
Chloride	000811IC-LCSD	100	95	95	90 - 110	3.1
Sulfate	000811IC-LCS	100	93	93	90 - 110	
Sulfate	000811IC-LCSD	100	94	94	90 - 110	1.1

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Alkalinity, Total	000812ALK-LCS	125	123.88	99	90 - 110	
Alkalinity, Total	000812ALK-LCSD	125	123.92	99	90 - 110	0.

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
7.00 Buffer	000812pH-LCS	7	6.99	100	99 - 101	
7.00 Buffer	000812pH-LCSD	7	7.01	100	99 - 101	0.3

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Specific Conductance	000814COND-LCS	1412	1409	100	95 - 105	

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	000814IC-LCS	100	98	98	90 - 110	
Chloride	000814IC-LCSD	100	95	95	90 - 110	3.1
Bromide	000814IC-LCS	100	94	94	90 - 110	
Bromide	000814IC-LCSD	100	92	92	90 - 110	2.2
Bromide	P0008032-11-MS	100	102.4	102	80 - 120	
Sulfate	000814IC-LCS	100	95	95	90 - 110	
Sulfate	000814IC-LCSD	100	94	94	90 - 110	1.1

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Nitrate, as N	000814NO2NO3B-LCS	0.5	0.5157	103	85 - 115	
Nitrate, as N	000814NO2NO3B-LCSD	0.5	0.487	97	85 - 115	5.7
Nitrate, as N	P0008032-01-MS	1	1.002	100	80 - 120	

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	000814TDS-LCS	1000	914	91	94 - 102	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Fluoride	000816F-LCS	2	1.96	98	84 - 109	
Fluoride	000816F-LCSD	2	1.98	99	84 - 109	1.
Fluoride	P0008032-01-MS	1	2.16	106	71 - 126	
Fluoride	P0008032-01-MSD	1	2.2	110	71 - 126	3.7

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Calcium	P08032-Icat-LCS	20	20.2	101	85 - 115	0.
Calcium	P0008032-01-MS	20	50.4	97	75 - 125	0.
Calcium	P0008032-01-MSD	20	50.3	96	75 - 125	0.5
Magnesium	P08032-Icat-LCS	20	19.2	96	85 - 115	0.
Magnesium	P0008032-01-MS	20	29.3	99	75 - 125	0.
Magnesium	P0008032-01-MSD	20	29.2	99	75 - 125	0.5
Potassium	P08032-Icat-LCS	20	18.7	94	85 - 115	0.
Potassium	P0008032-01-MS	20	22.8	99	75 - 125	0.
Potassium	P0008032-01-MSD	20	22.6	98	75 - 125	1.
Sodium	P08032-Icat-LCS	20	19.1	96	85 - 115	0.
Sodium	P0008032-01-MS	20	100	110	75 - 125	0.
Sodium	P0008032-01-MSD	20	101	115	75 - 125	4.4

ND - Not Detected

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EPA

EL PASO NATURAL GAS

8/17

CHAIN OF CUSTODY RECORD

P0008032

Page _____ of _____

PROJECT NUMBER	PROJECT NAME	SAMPLERS: (Signature)	DATE:
	JAL #4	Alan Bailey	8/7/00

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: TPH 8015 Mod.	BTEX	Anions Cations	See attached *		
01	8/7/00	1400	H2O	M00-0193	5		X	X	X	X		
02	8/7/00	1410	H2O	M00-0194	5		X	X	X	X		
03	8/7/00	1545	H2O	M00-0195	5		X	X	X	X		
04	8/7/00	1855	H2O	M00-0197	5		X	X	X	X		
05	8/8/00	0940	H2O	M00-0198	5		X	X	X	X		
06	8/8/00	0940	H2O	M00-0199	5		X	X	X	X		
07	8/8/00	1144	H2O	M00-0200	5		X	X	X	X		
08	8/8/00	1305	H2O	M00-0201	5		X	X	X	X		
09	8/8/00	1310	H2O	M00-0202	5		X	X	X	X		
10	8/8/00	1315	H2O	M00-0203	5		X	X	X	X		

CONTRACT LABORATORY

REMARKS

Received PH's out of hold time

Custody Seal Intact: Y N ~~None~~ Temp: 3°

Condition when received: ~~Poor~~ Good

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Alan Bailey	8/9/00 0600	VIA UPS		8/10 2000	D Flood
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:

☐ ROUTINE ☐ RUSH _____

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX: 915-587-3835

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FM-08-0566 (Rev. 10-99)

EL PASO NATURAL GAS

CHAIN OF CUSTODY RECORD

Page _____ of _____

PROJECT NUMBER	PROJECT NAME				TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS						CONTRACT LABORATORY
	Jal #4												
SAMPLERS: (Signature)		DATE:											
		8/7/00											
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER			TDS & Cl	BTEX	Anions & Cations	See Attached			REMARKS
11	8/7/00	1810	H2O	MOO-0196	5								
12	8/8/00	0505	H2O	MOO-0204	5								Received VOAs frozen
													Custody Seal Intact: Y N None Temp: 2°
													Condition when received: Poor Good

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	8/8/00 0600			8/10 10:20	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH _____

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX: 915-587-3835

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FM-08-0566 (Rev. 10-99)

NEL LABORATORIES
Reno • Las Vegas • Boise
Phoenix • Sacramento

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4
PROJECT NUMBER: NA

NEL ORDER ID: P0008044

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 8/16/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some QA results have been flagged as follows:

C - Sample concentration is a least 5 times greater than spike contribution. Spike recovery criteria do not apply.

Stan Van Wagenen
Laboratory Manager

8/23/00
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0204**
PROJECT ID:	JAL #4	DATE SAMPLED:	8/14/00
PROJECT #:	NA	NEL SAMPLE ID:	P0008044-01
TEST:	**Cations by EPA 6010A**		
MATRIX:	Aqueous	ANALYST:	JY - Reno Division

Dooms
Water Well

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	50	0.5 mg/L	1	EPA 6010	8/17/00	8/18/00
Magnesium	16	0.5 mg/L	1	EPA 6010	8/17/00	8/18/00
Potassium	70	2. mg/L	1	EPA 6010	8/17/00	8/18/00
Silica	30	5. mg/L	5	SM 4500Si-D	8/21/00	8/21/00
Sodium	4.2	0.5 mg/L	1	EPA 6010	8/17/00	8/18/00

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P08044-Cat-BLK

TEST: **Cations by EPA 6010A**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Calcium	ND	0.5 mg/L	1	EPA 6010	8/17/00	8/18/00
Magnesium	ND	0.5 mg/L	1	EPA 6010	8/17/00	8/18/00
Potassium	ND	2. mg/L	1	EPA 6010	8/17/00	8/18/00
Sodium	ND	0.5 mg/L	1	EPA 6010	8/17/00	8/18/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **M00-0204**
DATE SAMPLED: 8/14/00
NEL SAMPLE ID: P0008044-01

Doom's Water Well

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	180		1	SM 2320 B	mg/L	8/21/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	8/21/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	8/21/00
Alkalinity, Total	180	25.	1	SM 2320 B	mg/L	8/21/00
Bromide	ND	0.2	1	EPA 300.0	mg/L	8/18/00
Chloride	28	1.	10	EPA 300.0	mg/L	8/16/00
Fluoride	0.93	0.4	1	SM 4500-F C	mg/L	8/16/00
Hardness, Total (as CaCO3)	190	2.	1	EPA 200.7	mg/L	8/18/00
Nitrate, as N	1.2	0.5	10	SM 4500-NO3	mg/L-N	8/16/00
pH	7.72	2.	1	EPA 150.1	pH Units	8/16/00
pH Temperature	27.2	1.	1	EPA 150.1	°C	8/16/00
Specific Conductance	597	1.	1	SM 2510 B	µS/cm	8/17/00
Sulfate	75	1.	10	EPA 300.0	mg/L	8/16/00
Total Dissolved Solids	400	15.	1	SM 2540 C	mg/L	8/21/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P08044SI-BLK

TEST: **Silicon Oxide by Standard Method 3111D**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	8/21/00	8/21/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000816F-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	8/16/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000816IC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	8/16/00
Nitrate, as N	ND	0.05	1	SM 4500-NO3	mg/L-N	8/16/00
Sulfate	ND	0.1	1	EPA 300.0	mg/L	8/16/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000817TSS-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Suspended Solids	ND	10	1	SM 2540 D	mg/L	8/17/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000821ALK-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND		1	SM 2320 B	mg/L	8/21/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	8/21/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	8/21/00
Alkalinity, Total	ND	25	1	SM 2320 B	mg/L	8/21/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000821TDS-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	8/21/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0204
PROJECT ID:	JAL #4	DATE SAMPLED:	8/14/00
PROJECT #:	NA	NEL SAMPLE ID:	P0008044-01

Dooms Water Well

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	8/21/00
DILUTION:	1	ANALYZED:	8/21/00

PARAMETER	Result	Reporting Limit
Benzene	ND	5 µg/L
Toluene	ND	5 µg/L
Ethylbenzene	ND	5 µg/L
Total Xylenes	ND	10 µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	108	86 - 115
Toluene-d8	107	88 - 110

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	000821BX60_1A-BLK

TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	8/21/00
		ANALYZED:	8/21/00

PARAMETER	Result	Reporting Limit
Benzene	ND	5. µg/L
Toluene	ND	5. µg/L
Ethylbenzene	ND	5. µg/L
Total Xylenes	ND	10. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	105	86 - 115
Toluene-d8	105	88 - 110

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Fluoride	000816F-LCS	2	1.96	98	84 - 109	
Fluoride	000816F-LCSD	2	1.98	99	84 - 109	1.
Fluoride	P0008032-01-MS	1	2.16	106	71 - 126	
Fluoride	P0008032-01-MSD	1	2.2	110	71 - 126	3.7

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	000816IC-LCS	2	1.908	95	90 - 110	
Chloride	000816IC-LCSD	2	1.932	97	90 - 110	0.
Sulfate	000816IC-LCS	2.5	2.374	95	90 - 110	
Sulfate	000816IC-LCSD	2.5	2.366	95	90 - 110	0.
Nitrate, as N	000816IC-LCS	100	95	95	90 - 110	
Nitrate, as N	000816IC-LCSD	100	94	94	90 - 110	1.1
Nitrate, as N	L0008133-01-MS	100	98	0	80 - 120	

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
7.00 Buffer	000816PH-LCS	7	7	100	99 - 101	
7.00 Buffer	000816PH-LCSD	7	7.01	100	99 - 101	0.1

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Specific Conductance	000817COND-LCS	1412	1409	100	95 - 105	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Alkalinity, Total	000821ALK-LCS	125	122.34	98	90 - 110	
Alkalinity, Total	000821ALK-LCSD	125	123.14	99	90 - 110	0.7

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Benzene	000821BX60_1A-LCS	20	19.07	95	80 - 120	
Toluene	000821BX60_1A-LCS	20	19.88	99	80 - 120	
Ethylbenzene	000821BX60_1A-LCS	20	18.88	94	80 - 120	
Total Xylenes	000821BX60_1A-LCS	60	57.11	95	80 - 120	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	000821TDS-LCS	1000	962	96	94 - 102	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery		Acceptable Range	RPD
Calcium	P08044-Cat-LCS	20	20.4	102		85 - 115	0.
Calcium	P0008044-01-MS	20	72.1	111		75 - 125	0.
Calcium	P0008044-01-MSD	20	72.1	111		75 - 125	0.
Magnesium	P08044-Cat-LCS	20	19.5	98		85 - 115	0.
Magnesium	P0008044-01-MS	20	36.6	103		75 - 125	0.
Magnesium	P0008044-01-MSD	20	36.6	103		75 - 125	0.
Potassium	P08044-Cat-LCS	20	19.1	96		85 - 115	0.
Potassium	P0008044-01-MS	20	23.6	-232	C	75 - 125	0.
Potassium	P0008044-01-MSD	20	24	-230	C	75 - 125	-0.9
Sodium	P08044-Cat-LCS	20	19.8	99		85 - 115	0.
Sodium	P0008044-01-MS	20	91.5	437	C	75 - 125	0.
Sodium	P0008044-01-MSD	20	91.5	437	C	75 - 125	0.

ND - Not Detected

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EL PASO NATURAL GAS

Pur 8/23

P0008044

CHAIN OF CUSTODY RECORD

Las Vegas Lead

PROJECT NUMBER	PROJECT NAME				TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS						CONTRACT LABORATORY
	Jal #4												
SAMPLERS: (Signature)	DATE: 8/14/00												
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER			TDS 6 accord.	BTEX	Anion Cations	SEE ATTACHED *			REMARKS
01	8/14/00	1330	H2O	M00-0204	5		X	X	X	X			* Did not receive attached list and missed any hold times samples taken 8/14 1330 8-16-00 1000

Custody Seal Intact: Y N None Temp: 3C

Condition when received: Poor Good

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	8/15/00 0700	Via	FED-X	8/16 1000	NRL-LV
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX: 915-587-3835

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FM-08-0566 (Rev. 10-99)

SAMPLE KEY

SAMPLE NUMBER: M00-0213 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: EMP #3 BEFORE PURGING
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 07:00 SAMPLE DATE: 10/26/2000

RECEIVED
OCT 03 2000
REMEDIATION

SAMPLE KEY

SAMPLE NUMBER: M00-0214 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: bailer blank before sampling
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 07:05 SAMPLE DATE: 10/26/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0215 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor Well ACW #2A
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:00 SAMPLE DATE: 10/26/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0216 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor Well ACW #4
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:40 SAMPLE DATE: 10/26/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0217 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor Well ACW #3
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:48 SAMPLE DATE: 10/26/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0218 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor Well ACW #8
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:20 SAMPLE DATE: 10/26/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0219 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor Well ACW #1
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 16:20 SAMPLE DATE: 10/26/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0220 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor Well ENSR #1
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:55 SAMPLE DATE: 10/27/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0221 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor Well ENSR #1 Dup.
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:55 SAMPLE DATE: 10/27/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0222 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor Well ENSR #3
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:30 SAMPLE DATE: 10/27/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0223 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor Well PTP #1
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:09 SAMPLE DATE: 10/27/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0224 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Production Well #1
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:30 SAMPLE DATE: 10/27/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0227 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: ~~Bailer blank middle of sampling wells~~ ACW #11
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:10 SAMPLE DATE: 11/01/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0228 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor well ~~ACW #15~~ 14 EMP#3 Middle of Sampling
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:10 SAMPLE DATE: 11/01/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0229 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor well ~~ACW #7~~ Bailer middle of Sampling
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:30 SAMPLE DATE: 11/02/2000 or 11/1/00 (see p. 22)

SAMPLE KEY

SAMPLE NUMBER: M00-0230 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor well ACW #~~13~~ 14
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:10 SAMPLE DATE: 11/02/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0231 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor well **ACW #7**
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:30 SAMPLE DATE: 11/02/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0232 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor well **ACW #6**
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:35 SAMPLE DATE: 11/02/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0233 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Production Well Doom
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:45 SAMPLE DATE: 11/02/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0234 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor Well ACW #5
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:30 SAMPLE DATE: 11/02/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0235 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Production Well OXY
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:15 SAMPLE DATE: 11/02/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0236 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor Well ACW ~~#17~~ 15
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 16:45 SAMPLE DATE: 11/02/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0237 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor Well ACW #9
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:45 SAMPLE DATE: 11/03/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0238 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor Well ACW #9 DUP.
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:45 SAMPLE DATE: 11/03/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0239 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor Well ~~ACW #14~~ PW-1
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:55 SAMPLE DATE: 11/03/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0240 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor Well ACW #12
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:20 SAMPLE DATE: 11/03/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0241 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor Well ACW #16
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:00 SAMPLE DATE: 11/03/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0242 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor Well ACW #13
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:55 SAMPLE DATE: 11/06/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0243 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor Well ACW #10
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:25 SAMPLE DATE: 11/06/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0244 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: EMP #3 after purging wells
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:40 SAMPLE DATE: 11/06/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0245 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Bailer after sampling wells
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:45 SAMPLE DATE: 11/06/2000

SAMPLE KEY

SAMPLE NUMBER: M00-0246 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Field blank
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:50 SAMPLE DATE: 11/06/2000

RW#1 ↔ RW#2

SAMPLE KEY

SAMPLE NUMBER: M00-0227 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor Well #ACW11 ✓
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:25 SAMPLE DATE: 11/01/2000
BY: BRISBIN

SAMPLE KEY

SAMPLE NUMBER: M00-0228 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: EMP #3 middle of sampling ✓
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:05 SAMPLE DATE: 11/01/2000
BY: BRISBIN

SAMPLE KEY

SAMPLE NUMBER: M00-0229 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Bailer middle of sampling ✓
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:10 SAMPLE DATE: 11/01/2000
BY: BRISBIN

SAMPLE KEY

SAMPLE NUMBER: M00-0230 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor well ACW ~~#15~~ → ACW-14
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:10 SAMPLE DATE: 11/01/2000
BY: BRISBIN

SAMPLE KEY

SAMPLE NUMBER: M00-0231 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor well ACW #7
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:30 SAMPLE DATE: 11/02/2000
BY: BRISBIN

SAMPLE KEY

SAMPLE NUMBER: M00-0232 LOCATION: JAL #4
MATRIX: WATER
SAMPLE DESCRIPTION: Monitor well ACW #6
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:35 SAMPLE DATE: 11/02/2000
BY: BRISBIN

EL PASO NATURAL GAS

MEMORANDUM

To: Distribution

Date: January 21, 2001

From: Darrell Campbell

Place: Laboratory Services

RE: Jal #4 Sample Key Error

In your copy of the November 2000 sample results, please replace the third page of the of "Sample Key" pages with the enclosed page. This will correct several errors with sample descriptions on that page. I apologize for the confusion this caused.

If you have any questions or need additional information, please call me at 587-3728 or (915) 526-8434.

Darrell Campbell

CC: G. Garibay
T. Martinez
S. Brisbin

RECEIVED
JAN 23 2001
REMEDIATION

NEL LABORATORIES
Reno • Las Vegas • Boise
Phoenix • Sacramento

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4
PROJECT NUMBER: NA

NEL ORDER ID: P0010093

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 10/30/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

Hr - Sample was received beyond holding time for this parameter.

Some QA results have been flagged as follows:

C - Sample concentration is a least 5 times greater than spike contribution. Spike recovery criteria do not apply.

Stan Van Wagenen
Laboratory Manager

11/13/00
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0213
PROJECT ID:	JAL #4	DATE SAMPLED:	10/26/00
PROJECT #:	NA	NEL SAMPLE ID:	P0010093-01
TEST:	Metals		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Barium	0.13	0.005 mg/L	1	EPA 6010	10/31/00	11/1/00
Boron	0.23	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	10/31/00	11/1/00
Calcium	62	0.5 mg/L	1	EPA 6010	10/31/00	11/1/00
Chromium	ND	0.01 mg/L	1	EPA 6010	10/31/00	11/1/00
Copper	0.0055	0.005 mg/L	1	EPA 6010	10/31/00	11/1/00
Iron	2.9	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Lead	ND	0.05 mg/L	1	EPA 6010	10/31/00	11/1/00
Magnesium	20	0.5 mg/L	1	EPA 6010	10/31/00	11/1/00
Manganese	0.13	0.005 mg/L	1	EPA 6010	10/31/00	11/1/00
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/1/00	11/1/00
Potassium	19	2. mg/L	1	EPA 6010	10/31/00	11/1/00
Selenium	ND	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Silica	26	1. mg/L	1	SM 4500Si-D	NA	11/1/00
Silver	ND	0.02 mg/L	1	EPA 6010	10/31/00	11/1/00
Sodium	540	0.5 mg/L	1	EPA 6010	10/31/00	11/1/00
Zinc	ND	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00

D. F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0214
PROJECT ID:	JAL #4	DATE SAMPLED:	10/26/00
OJECT #:	NA	NEL SAMPLE ID:	P0010093-02
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Barium	ND	0.005 mg/L	1	EPA 6010	10/31/00	11/1/00
Boron	0.12	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	10/31/00	11/1/00
Calcium	ND	0.5 mg/L	1	EPA 6010	10/31/00	11/1/00
Chromium	ND	0.01 mg/L	1	EPA 6010	10/31/00	11/1/00
Copper	0.088	0.005 mg/L	1	EPA 6010	10/31/00	11/1/00
Iron	ND	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Lead	ND	0.05 mg/L	1	EPA 6010	10/31/00	11/1/00
Magnesium	ND	0.5 mg/L	1	EPA 6010	10/31/00	11/1/00
Manganese	ND	0.005 mg/L	1	EPA 6010	10/31/00	11/1/00
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/1/00	11/1/00
Potassium	ND	2. mg/L	1	EPA 6010	10/31/00	11/1/00
Selenium	ND	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Silica	1.3	1. mg/L	1	SM 4500Si-D	NA	11/1/00
Silver	ND	0.02 mg/L	1	EPA 6010	10/31/00	11/1/00
Sodium	1.9	0.5 mg/L	1	EPA 6010	10/31/00	11/1/00
[illegible]	ND	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00

D. F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0215**
PROJECT ID:	JAL #4	DATE SAMPLED:	10/26/00
OJECT #:	NA	NEL SAMPLE ID:	P0010093-03
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	1.4	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Barium	0.31	0.005 mg/L	1	EPA 6010	10/31/00	11/1/00
Boron	1.2	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Cadmium	0.018	0.01 mg/L	1	EPA 6010	10/31/00	11/1/00
Calcium	6.4	0.5 mg/L	1	EPA 6010	10/31/00	11/1/00
Chromium	0.018	0.01 mg/L	1	EPA 6010	10/31/00	11/1/00
Copper	0.034	0.005 mg/L	1	EPA 6010	10/31/00	11/1/00
Iron	1.0	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Lead	ND	0.05 mg/L	1	EPA 6010	10/31/00	11/1/00
Magnesium	1.0	0.5 mg/L	1	EPA 6010	10/31/00	11/1/00
Manganese	0.011	0.005 mg/L	1	EPA 6010	10/31/00	11/1/00
Mercury	0.0002	0.0002 mg/L	1	EPA 7470A	11/1/00	11/1/00
Potassium	8.5	2. mg/L	1	EPA 6010	10/31/00	11/1/00
Selenium	ND	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Silica	28	1. mg/L	1	SM 4500Si-D	NA	11/1/00
Silver	ND	0.02 mg/L	1	EPA 6010	10/31/00	11/1/00
Sodium	3600	2.5 mg/L	5	EPA 6010	10/31/00	11/1/00
[illegible]	ND	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00

D. F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0216
PROJECT ID:	JAL #4	DATE SAMPLED:	10/26/00
)JECT #:	NA	NEL SAMPLE ID:	P0010093-04
TEST:	Metals		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	0.47	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Barium	0.87	0.005 mg/L	1	EPA 6010	10/31/00	11/1/00
Boron	2.0	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	10/31/00	11/1/00
Calcium	57	0.5 mg/L	1	EPA 6010	10/31/00	11/1/00
Chromium	ND	0.01 mg/L	1	EPA 6010	10/31/00	11/1/00
Copper	ND	0.005 mg/L	1	EPA 6010	10/31/00	11/1/00
Iron	1.7	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Lead	ND	0.05 mg/L	1	EPA 6010	10/31/00	11/1/00
Magnesium	28	0.5 mg/L	1	EPA 6010	10/31/00	11/1/00
Manganese	0.50	0.005 mg/L	1	EPA 6010	10/31/00	11/1/00
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/1/00	11/1/00
Potassium	23	2. mg/L	1	EPA 6010	10/31/00	11/1/00
Selenium	ND	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Silica	25	1. mg/L	1	SM 4500Si-D	NA	11/1/00
Silver	ND	0.02 mg/L	1	EPA 6010	10/31/00	11/1/00
Sodium	3600	2.5 mg/L	5	EPA 6010	10/31/00	11/1/00
:	ND	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00

. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0218**
PROJECT ID:	JAL #4	DATE SAMPLED:	10/26/00
PROJECT #:	NA	NEL SAMPLE ID:	P0010093-05
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Barium	0.15	0.005 mg/L	1	EPA 6010	10/31/00	11/1/00
Boron	0.79	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	10/31/00	11/1/00
Calcium	440	0.5 mg/L	1	EPA 6010	10/31/00	11/1/00
Chromium	ND	0.01 mg/L	1	EPA 6010	10/31/00	11/1/00
Copper	ND	0.005 mg/L	1	EPA 6010	10/31/00	11/1/00
Iron	3.3	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Lead	ND	0.05 mg/L	1	EPA 6010	10/31/00	11/1/00
Magnesium	220	0.5 mg/L	1	EPA 6010	10/31/00	11/1/00
Manganese	2.1	0.005 mg/L	1	EPA 6010	10/31/00	11/1/00
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/1/00	11/1/00
Potassium	69	2. mg/L	1	EPA 6010	10/31/00	11/1/00
Selenium	ND	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Silica	24	1. mg/L	1	SM 4500Si-D	NA	11/1/00
Silver	ND	0.02 mg/L	1	EPA 6010	10/31/00	11/1/00
Sodium	3600	2.5 mg/L	5	EPA 6010	10/31/00	11/1/00
Zinc	ND	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00

D. F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	M00-0219
PROJECT ID:	JAL #4	DATE SAMPLED:	10/26/00
PROJECT #:	NA	NEL SAMPLE ID:	P0010093-06
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	0.30	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Barium	0.29	0.005 mg/L	1	EPA 6010	10/31/00	11/1/00
Boron	1.0	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	10/31/00	11/1/00
Calcium	120	0.5 mg/L	1	EPA 6010	10/31/00	11/1/00
Chromium	ND	0.01 mg/L	1	EPA 6010	10/31/00	11/1/00
Copper	ND	0.005 mg/L	1	EPA 6010	10/31/00	11/1/00
Iron	3.6	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Lead	ND	0.05 mg/L	1	EPA 6010	10/31/00	11/1/00
Magnesium	82	0.5 mg/L	1	EPA 6010	10/31/00	11/1/00
Manganese	0.21	0.005 mg/L	1	EPA 6010	10/31/00	11/1/00
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/1/00	11/1/00
Potassium	9.5	2. mg/L	1	EPA 6010	10/31/00	11/1/00
Selenium	ND	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Silica	25	1. mg/L	1	SM 4500Si-D	NA	11/1/00
Silver	ND	0.02 mg/L	1	EPA 6010	10/31/00	11/1/00
Sodium	2600	2.5 mg/L	5	EPA 6010	10/31/00	11/1/00
[illegible]	ND	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00

D. F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	001101SI-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	NA	11/1/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P010093HG-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/1/00	11/1/00

D.F. - Dilution Factor

ND - Not Detected

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- NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P10093I-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Barium	ND	0.005 mg/L	1	EPA 6010	10/31/00	11/1/00
Boron	ND	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	10/31/00	11/1/00
Calcium	ND	0.5 mg/L	1	EPA 6010	10/31/00	11/1/00
Chromium	ND	0.01 mg/L	1	EPA 6010	10/31/00	11/1/00
Copper	ND	0.005 mg/L	1	EPA 6010	10/31/00	11/1/00
Iron	ND	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Lead	ND	0.05 mg/L	1	EPA 6010	10/31/00	11/1/00
Magnesium	ND	0.5 mg/L	1	EPA 6010	10/31/00	11/1/00
Manganese	ND	0.005 mg/L	1	EPA 6010	10/31/00	11/1/00
Potassium	ND	2. mg/L	1	EPA 6010	10/31/00	11/1/00
Selenium	ND	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00
Silver	ND	0.02 mg/L	1	EPA 6010	10/31/00	11/1/00
Sodium	ND	0.5 mg/L	1	EPA 6010	10/31/00	11/1/00
Zinc	ND	0.1 mg/L	1	EPA 6010	10/31/00	11/1/00

F. - Dilution Factor

J - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA

CLIENT ID: **M00-0213**
DATE SAMPLED: 10/26/00
NEL SAMPLE ID: P0010093-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	140			1	SM 2320 B	mg/L	10/31/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	10/31/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	10/31/00
Alkalinity, Total	140		25.	1	SM 2320 B	mg/L	10/31/00
Bromide	ND		2.	10	EPA 300.0	mg/L	10/28/00
Chloride	1300		100.	1000	EPA 300.0	mg/L	11/1/00
Fluoride	1.7		0.4	1	SM 4500-F C	mg/L	11/1/00
Hardness, Total (as CaCO3)	240		2.	1	EPA 200.7	mg/L	11/1/00
Nitrate, as N	ND		1.	10	EPA 300.0	mg/L-N	10/28/00
pH	7.11	Hr	2.	1	EPA 150.1	pH Units	10/31/00
pH Temperature	14.5		1.	1	EPA 150.1	°C	10/31/00
Specific Conductance	3030		1.	1	SM 2510 B	µS/cm	11/1/00
Sulfate	80		1.	10	EPA 300.0	mg/L	10/28/00
Total Dissolved Solids	1920		30.	2	SM 2540 C	mg/L	11/1/00

L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA

CLIENT ID: **M00-0214**
DATE SAMPLED: 10/26/00
NEL SAMPLE ID: P0010093-02

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND			1	SM 2320 B	mg/L	10/31/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	10/31/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	10/31/00
Alkalinity, Total	ND		25.	1	SM 2320 B	mg/L	10/31/00
Bromide	ND		0.2	1	EPA 300.0	mg/L	10/28/00
Chloride	3.3		0.1	1	EPA 300.0	mg/L	10/28/00
Fluoride	ND		0.4	1	SM 4500-F C	mg/L	11/1/00
Hardness, Total (as CaCO3)	ND		2.	1	EPA 200.7	mg/L	11/1/00
Nitrate, as N	ND		0.1	1	EPA 300.0	mg/L-N	10/28/00
pH	5.22	Hr	2.	1	EPA 150.1	pH Units	10/31/00
pH Temperature	16.2		1.	1	EPA 150.1	°C	10/31/00
Specific Conductance	13		1.	1	SM 2510 B	µS/cm	11/1/00
Sulfate	ND		0.1	1	EPA 300.0	mg/L	10/28/00
Total Dissolved Solids	ND		15.	1	SM 2540 C	mg/L	11/1/00

R. L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
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-NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA

CLIENT ID: **M00-0215**
DATE SAMPLED: 10/26/00
NEL SAMPLE ID: P0010093-03

ANALYSIS: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	870			1	SM 2320 B	mg/L	10/31/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	10/31/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	10/31/00
Alkalinity, Total	870		25.	1	SM 2320 B	mg/L	10/31/00
Bromide	ND		2.	10	EPA 300.0	mg/L	10/28/00
Chloride	6500		1000.	10000	EPA 300.0	mg/L	11/1/00
Fluoride	11		1.6	4	SM 4500-F C	mg/L	11/1/00
Hardness, Total (as CaCO3)	18		2.	1	EPA 200.7	mg/L	11/1/00
Nitrate, as N	ND		1.	10	EPA 300.0	mg/L-N	10/28/00
pH	9.75	Hr	2.	1	EPA 150.1	pH Units	10/31/00
pH Temperature	14.1		1.	1	EPA 150.1	°C	10/31/00
Specific Conductance	19100		1.	1	SM 2510 B	µS/cm	11/1/00
Sulfate	28		1.	10	EPA 300.0	mg/L	10/28/00
Total Dissolved Solids	12800		300.	20	SM 2540 C	mg/L	11/1/00

R. L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: M00-0216
DATE SAMPLED: 10/26/00
NEL SAMPLE ID: P0010093-04

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	1600			1	SM 2320 B	mg/L	10/31/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	10/31/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	10/31/00
Alkalinity, Total	1600		25.	1	SM 2320 B	mg/L	10/31/00
Bromide	ND		2.	10	EPA 300.0	mg/L	10/28/00
Chloride	10000		1000.	10000	EPA 300.0	mg/L	11/1/00
Fluoride	12		1.6	4	SM 4500-F C	mg/L	11/1/00
Hardness, Total (as CaCO3)	260		2.	1	EPA 200.7	mg/L	11/1/00
Nitrate, as N	ND		1.	10	EPA 300.0	mg/L-N	10/28/00
pH	7.73	Hr	2.	1	EPA 150.1	pH Units	10/31/00
pH Temperature	15.1		1.	1	EPA 150.1	°C	10/31/00
Specific Conductance	25600		1.	1	SM 2510 B	µS/cm	11/1/00
Sulfate	88		1.	10	EPA 300.0	mg/L	10/28/00
Total Dissolved Solids	16300		300.	20	SM 2540 C	mg/L	11/1/00

.. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
)JECT #: NA

CLIENT ID: **M00-0218**
DATE SAMPLED: 10/26/00
NEL SAMPLE ID: P0010093-05

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	410			1	SM 2320 B	mg/L	10/31/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	10/31/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	10/31/00
Alkalinity, Total	410		25.	1	SM 2320 B	mg/L	10/31/00
Bromide	ND		2.	10	EPA 300.0	mg/L	10/28/00
Chloride	17000		1000.	10000	EPA 300.0	mg/L	11/1/00
Fluoride	0.92		0.4	1	SM 4500-F C	mg/L	11/1/00
Hardness, Total (as CaCO3)	2000		2.	1	EPA 200.7	mg/L	11/1/00
Nitrate, as N	ND		1.	10	EPA 300.0	mg/L-N	10/28/00
pH	6.85	Hr	2.	1	EPA 150.1	pH Units	10/31/00
pH Temperature	15.0		1.	1	EPA 150.1	°C	10/31/00
Specific Conductance	36300		1.	1	SM 2510 B	µS/cm	11/1/00
Sulfate	740		10.	100	EPA 300.0	mg/L	10/28/00
Total Dissolved Solids	26000		1500.	100	SM 2540 C	mg/L	11/1/00

_. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA

CLIENT ID: **M00-0219**
DATE SAMPLED: 10/26/00
NEL SAMPLE ID: P0010093-06

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	720			1	SM 2320 B	mg/L	10/31/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	10/31/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	10/31/00
Alkalinity, Total	720		25.	1	SM 2320 B	mg/L	10/31/00
Bromide	ND		2.	10	EPA 300.0	mg/L	10/28/00
Chloride	5500		1000.	10000	EPA 300.0	mg/L	11/1/00
Fluoride	2.3		0.4	1	SM 4500-F C	mg/L	11/1/00
Hardness, Total (as CaCO3)	640		2.	1	EPA 200.7	mg/L	11/1/00
Nitrate, as N	ND		1.	10	EPA 300.0	mg/L-N	10/28/00
pH	8.13	Hr	2.	1	EPA 150.1	pH Units	10/31/00
pH Temperature	15.2		1.	1	EPA 150.1	°C	10/31/00
Specific Conductance	15500		1.	1	SM 2510 B	µS/cm	11/1/00
Sulfate	300		10.	100	EPA 300.0	mg/L	10/28/00
Total Dissolved Solids	9900		150.	10	SM 2540 C	mg/L	11/1/00

L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	001028IC-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	10/28/00
Chloride	ND	0.1	1	EPA 300.0	mg/L	10/28/00
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	10/28/00
Nitrite, as N	ND	0.1	1	EPA 300.0	mg/L-N	10/28/00
Sulfate	ND	0.1	1	EPA 300.0	mg/L	10/28/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	001031ALK-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND		1	SM 2320 B	mg/L	10/31/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	10/31/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	10/31/00
Alkalinity, Total	ND	25	1	SM 2320 B	mg/L	10/31/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	001101F-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	11/1/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	001101IC-BLK
EST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	11/1/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	001101TDS-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	11/1/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0213**
PROJECT ID:	JAL #4	DATE SAMPLED:	10/26/00
PROJECT #:	NA	NEL SAMPLE ID:	P0010093-01
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/7/00
DILUTION:	1	ANALYZED:	11/7/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	6.3 µg/L	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	99	69 - 120

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0214**
PROJECT ID:	JAL #4	DATE SAMPLED:	10/26/00
PROJECT #:	NA	NEL SAMPLE ID:	P0010093-02
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/7/00
DILUTION:	1	ANALYZED:	11/7/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	97	69 - 120

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0215**
PROJECT ID:	JAL #4	DATE SAMPLED:	10/26/00
PROJECT #:	NA	NEL SAMPLE ID:	P0010093-03

TEST: **BTEX by EPA SW846 Method 8021B, Dec. 1996**

METHOD:	EPA 8021B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/7/00
DILUTION:	1	ANALYZED:	11/7/00

PARAMETER	Result		Reporting Limit
Benzene	35	µg/L	2. µg/L
Toluene	78	µg/L	2. µg/L
Ethylbenzene	16	µg/L	2. µg/L
Total Xylenes	32	µg/L	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	76	69 - 120

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0216**
PROJECT ID:	JAL #4	DATE SAMPLED:	10/26/00
PROJECT #:	NA	NEL SAMPLE ID:	P0010093-04
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/7/00
DILUTION:	1	ANALYZED:	11/7/00

PARAMETER	Result		Reporting Limit
Benzene	63	µg/L	2. µg/L
Toluene	17	µg/L	2. µg/L
Ethylbenzene	41	µg/L	2. µg/L
Total Xylenes	190	µg/L	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	93	69 - 120

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0218**
PROJECT ID:	JAL #4	DATE SAMPLED:	10/26/00
PROJECT #:	NA	NEL SAMPLE ID:	P0010093-05
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/7/00
DILUTION:	1	ANALYZED:	11/7/00

PARAMETER	Result		Reporting Limit
Benzene	15	µg/L	2. µg/L
Toluene	ND		2. µg/L
Ethylbenzene	2.1	µg/L	2. µg/L
Total Xylenes	10	µg/L	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	88	69 - 120

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**M00-0219**
PROJECT ID:	JAL #4	DATE SAMPLED:	10/26/00
PROJECT #:	NA	NEL SAMPLE ID:	P0010093-06
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/7/00
DILUTION:	1	ANALYZED:	11/7/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	8.3 µg/L	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	72	69 - 120

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	001107BX21_A-BLK
TEST:	**BTEX by EPA SW846 Method 8021B, Dec. 1996**		
METHOD:	EPA 8021B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/7/00
		ANALYZED:	11/7/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
a,a,a-Trifluorotoluene	104	69 - 120

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
T: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	001028IC-LCS	100	99	99	90 - 110	
Chloride	001028IC-LCSD	100	98	98	90 - 110	1.
Sulfate	001028IC-LCS	100	104	104	90 - 110	
Sulfate	001028IC-LCSD	100	101	101	90 - 110	2.9
Nitrite, as N	001028IC-LCS	100	103	103	90 - 110	
Nitrite, as N	001028IC-LCSD	100	106	106	90 - 110	2.9
Nitrate, as N	001028IC-LCS	100	96	96	90 - 110	
Nitrate, as N	001028IC-LCSD	100	96	96	90 - 110	0.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Alkalinity, Total	001031ALK-LCS	125	136	109	90 - 110	
Alkalinity, Total	001031ALK-LCSD	125	125	100	90 - 110	8.4

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
7.00 Buffer	001031PH-LCS	7	7	100	99 - 101	
7.00 Buffer	001031PH-LCSD	7	7	100	99 - 101	0.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Specific Conductance	001101COND-LCS	1412	1412	100	95 - 105	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Fluoride	001101F-LCS	2	1.9	95	84 - 109	
Fluoride	001101F-LCSD	2	1.9	95	84 - 109	0.
Fluoride	P0010093-02-MS	1	1	100	71 - 126	
Fluoride	P0010093-02-MSD	1	1	100	71 - 126	0.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	001101IC-LCS	100	98	98	90 - 110	
Chloride	001101IC-LCSD	100	98	98	90 - 110	0.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	001101TDS-LCS	1000	972	97	94 - 102	

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **BTEX by EPA SW846 Method 8021B, Dec. 1996**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Benzene	001107BX21_A-LCS	50	48.65	97	85 - 115	
Benzene	001107BX21_A-LCSD	50	44.96	90	80 - 120	7.9
Benzene	P0010093-05-MS	50	69	108	70 - 130	
Benzene	P0010093-05-MSD	50	73	116	70 - 130	7.1
Toluene	001107BX21_A-LCS	50	51.75	103	85 - 115	
Toluene	001107BX21_A-LCSD	50	44.22	88	80 - 120	15.7
Toluene	P0010093-05-MS	50	48	96	70 - 130	
Toluene	P0010093-05-MSD	50	52	104	70 - 130	8.
Ethylbenzene	001107BX21_A-LCS	50	54.12	108	85 - 115	
Ethylbenzene	001107BX21_A-LCSD	50	43.62	87	80 - 120	21.5
Ethylbenzene	P0010093-05-MS	50	51	98	70 - 130	
Ethylbenzene	P0010093-05-MSD	50	54	104	70 - 130	6.
Total Xylenes	001107BX21_A-LCS	150	166.9	111	85 - 115	
Total Xylenes	001107BX21_A-LCSD	150	134.46	90	80 - 120	21.5
Total Xylenes	P0010093-05-MS	150	163	102	70 - 130	
Total Xylenes	P0010093-05-MSD	150	172	108	70 - 130	5.7

ND - Not Detected

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- NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Mercury	P010093HG-LCS	0.005	0.00493	99	85 - 115	
Mercury	P0010093-01-MS	0.005	0.00492	98	70 - 130	
Mercury	P0010093-01-MSD	0.005	0.0051	102	70 - 130	3.6

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Arsenic	P10093I-LCS	0.5	0.451	90	85 - 115	
Arsenic	P0010093-01-MS	0.5	0.516	103	75 - 125	
Arsenic	P0010093-01-MSD	0.5	0.518	104	75 - 125	0.4
Barium	P10093I-LCS	1	0.904	90	85 - 115	
Barium	P0010093-01-MS	1	1.15	102	75 - 125	
Barium	P0010093-01-MSD	1	1.15	102	75 - 125	0.
Boron	P10093I-LCS	1	0.895	90	85 - 115	
Boron	P0010093-01-MS	1	1.21	98	75 - 125	
Boron	P0010093-01-MSD	1	1.2	97	75 - 125	1.
Cadmium	P10093I-LCS	0.2	0.182	91	85 - 115	
Cadmium	P0010093-01-MS	0.2	0.193	97	75 - 125	
Cadmium	P0010093-01-MSD	0.2	0.192	96	75 - 125	0.5
Calcium	P10093I-LCS	20	18.2	91	85 - 115	
Calcium	P0010093-01-MS	20	83.2	106	75 - 125	
Calcium	P0010093-01-MSD	20	84	110	75 - 125	3.7
Chromium	P10093I-LCS	0.5	0.462	92	85 - 115	
Chromium	P0010093-01-MS	0.5	0.491	98	75 - 125	
Chromium	P0010093-01-MSD	0.5	0.49	98	75 - 125	0.2
Copper	P10093I-LCS	0.5	0.44	88	85 - 115	
Copper	P0010093-01-MS	0.5	0.502	99	75 - 125	
Copper	P0010093-01-MSD	0.5	0.497	98	75 - 125	1.
Iron	P10093I-LCS	1	0.969	97	85 - 115	
Iron	P0010093-01-MS	1	3.95	105	75 - 125	
Iron	P0010093-01-MSD	1	4.1	120	75 - 125	13.3
Lead	P10093I-LCS	1	0.888	89	85 - 115	
Lead	P0010093-01-MS	1	0.913	91	75 - 125	
Lead	P0010093-01-MSD	1	0.918	92	75 - 125	0.5
Magnesium	P10093I-LCS	20	18.1	91	85 - 115	
Magnesium	P0010093-01-MS	20	40.3	102	75 - 125	
Magnesium	P0010093-01-MSD	20	40.4	102	75 - 125	0.5
Manganese	P10093I-LCS	0.5	0.452	90	85 - 115	
Manganese	P0010093-01-MS	0.5	0.609	96	75 - 125	
Manganese	P0010093-01-MSD	0.5	0.611	96	75 - 125	0.4
Potassium	P10093I-LCS	20	18.7	94	85 - 115	
Potassium	P0010093-01-MS	20	40.1	106	75 - 125	
Potassium	P0010093-01-MSD	20	40	105	75 - 125	0.5
Selenium	P10093I-LCS	0.5	0.444	89	85 - 115	
Selenium	P0010093-01-MS	0.5	0.507	101	75 - 125	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery		Acceptable Range	RPD
Selenium	P0010093-01-MSD	0.5	0.505	101		75 - 125	0.4
Silver	P10093I-LCS	0.5	0.457	91		85 - 115	
Silver	P0010093-01-MS	0.5	0.481	96		75 - 125	
Silver	P0010093-01-MSD	0.5	0.478	96		75 - 125	0.6
Sodium	P10093I-LCS	20	18.4	92		85 - 115	
Sodium	P0010093-01-MS	20	582	210	C	75 - 125	
Sodium	P0010093-01-MSD	20	580	200	C	75 - 125	4.9
Zinc	P10093I-LCS	0.5	0.459	92		85 - 115	
Zinc	P0010093-01-MS	0.5	0.528	106		75 - 125	
Zinc	P0010093-01-MSD	0.5	0.527	105		75 - 125	0.2

ND - Not Detected

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EL PASO NATURAL GAS

LV Lead

CHAIN OF CUSTODY RECORD

P001093
11/6/00

Page of

PROJECT NUMBER	PROJECT NAME				TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS						CONTRACT LABORATORY
	Jal #4												
SAMPLERS: (Signature)		DATE: 10/26/00											
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER			Cations + Anions	See Attached	BTEX	TDS	Metals	Heavy Metals	REMARKS
01	10/26/00	0700	H2O	MOO-0813	5		X	X	X	X	X	X	
02	10/26/00	0705	H2O	MOO-0814	5		X	X	X	X	X	X	
03	10/26/00	1100	H2O	MOO-0815	5		X	X	X	X	X	X	
04	10/26/00	1240	H2O	MOO-0816	5		X	X	X	X	X	X	
05	10/26/00	1520	H2O	MOO-0818	5		X	X	X	X	X	X	
06	10/26/00	1620	H2O	MOO-0819	5		X	X	X	X	X	X	

Custody Seal Intact: Y N None Temp: 3°
Condition when received: Poor Good

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	10/27/00 0600				11/1/00 1930
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX: 915-587-3835

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

NEL LABORATORIES
Reno • Las Vegas • Boise
Phoenix • Sacramento

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4
PROJECT NUMBER: NA

NEL ORDER ID: P0011021

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 11/3/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Stan Van Wagenen
Laboratory Manager

11/10/00
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
)JECT #: NA

CLIENT ID: **MOO-0220**
DATE SAMPLED: 10/27/00
NEL SAMPLE ID: P0011021-01

ıEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	3800	200.	2000	EPA 300.0	mg/L	11/8/00
Specific Conductance	10200	1.	1	SM 2510 B	µS/cm	11/7/00
Total Dissolved Solids	6690	150.	10	SM 2540 C	mg/L	11/7/00

. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0221**
PROJECT ID:	JAL #4	DATE SAMPLED:	10/27/00
PROJECT #:	NA	NEL SAMPLE ID:	P0011021-02
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	4000	200.	2000	EPA 300.0	mg/L	11/8/00
Specific Conductance	10600	1.	1	SM 2510 B	µS/cm	11/7/00
Total Dissolved Solids	7140	150.	10	SM 2540 C	mg/L	11/7/00

R. L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0222**
PROJECT ID:	JAL #4	DATE SAMPLED:	10/27/00
)JECT #:	NA	NEL SAMPLE ID:	P0011021-03

'1EST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	640	20.	200	EPA 300.0	mg/L	11/7/00
Specific Conductance	2410	1.	1	SM 2510 B	µS/cm	11/7/00
Total Dissolved Solids	1870	30.	2	SM 2540 C	mg/L	11/7/00

.. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0223**
PROJECT ID:	JAL #4	DATE SAMPLED:	10/27/00
PROJECT #:	NA	NEL SAMPLE ID:	P0011021-04
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	530	20.	200	EPA 300.0	mg/L	11/7/00
Specific Conductance	2050	1.	1	SM 2510 B	µS/cm	11/7/00
Total Dissolved Solids	1570	30.	2	SM 2540 C	mg/L	11/7/00

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0224**
PROJECT ID:	JAL #4	DATE SAMPLED:	10/27/00
OJECT #:	NA	NEL SAMPLE ID:	P0011021-05
..EST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	94	2.5	25	EPA 300.0	mg/L	11/8/00
Specific Conductance	850	1.	1	SM 2510 B	µS/cm	11/7/00
Total Dissolved Solids	603	15.	1	SM 2540 C	mg/L	11/7/00

.. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0217**
PROJECT ID:	JAL #4	DATE SAMPLED:	11/1/00
OJECT #:	NA	NEL SAMPLE ID:	P0011021-06

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
Chloride	7400	200.	2000	EPA 300.0	mg/L	11/7/00
Specific Conductance	17500	1.	1	SM 2510 B	µS/cm	11/7/00
Total Dissolved Solids	11900	300.	20	SM 2540 C	mg/L	11/7/00

L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	001107IC-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	11/7/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	001107TDSA-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D.F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	11/7/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	001108IC-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D.F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	11/8/00
Chloride	ND	0.1	1	EPA 300.0	mg/L	11/8/00
Sulfate	ND	0.1	1	EPA 300.0	mg/L	11/8/00

D.F. - Dilution Factor

ND - Not Detected

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- NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Specific Conductance	001107COND-LCS	1412	1410	100	95 - 105	

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
LIST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	001107IC-LCS	100	98	98	90 - 110	
Chloride	001107IC-LCSD	100	94	94	90 - 110	4.2

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
T: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	001107TDSA-LCS	1000	991	99	94 - 102	

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
T: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	001108IC-LCS	100	102	102	90 - 110	
Chloride	001108IC-LCSD	100	101	101	90 - 110	1.
Sulfate	001108IC-LCS	100	98	98	90 - 110	
Sulfate	001108IC-LCSD	100	95	95	90 - 110	3.1

ND - Not Detected

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EL PASO NATURAL GAS

11/10

CHAIN OF CUSTODY RECORD

CAS VEGAS Lead

P0011021

Page 1 of 1

PROJECT NUMBER	PROJECT NAME	SAMPLERS: (Signature)	DATE:
	JA1 #4		10/27/00

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: CL	TDS	SP. Cond.				REMARKS
01	10/27/00	0755	H2O	MOD-0820	1		X	X	X				
02	10/27/00	0755	H2O	MOD-0821	1		X	X	X				
03	10/27/00	1130	H2O	MOD-0822	1		X	X	X				
04	10/27/00	1209	H2O	MOD-0823	1		X	X	X				
05	10/27/00	1330	H2O	MOD-0824	1		X	X	X				
06	11/1/00		H2O	MOD-0217	1		X	X	X				Research

Custody Seal Intact: Y N None Temp: -3°C
Condition when received: Poor Good

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	11/2/00 0700	Via	Fed-X	11/3 0940	MRL-LV
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH _____

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX: 915-587-3835

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EL PASO (Rev. 10-93)

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Phoenix • Sacramento

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4
PROJECT NUMBER: NA

NEL ORDER ID: P0011022

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 11/3/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

Hr - Sample was received beyond holding time for this parameter.

Some QA results have been flagged as follows:

C - Sample concentration is a least 5 times greater than spike contribution. Spike recovery criteria do not apply.

Stan Van Wagenen
Laboratory Manager

11/13/00
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	MOO-0227
PROJECT ID:	JAL #4	DATE SAMPLED:	11/1/00
PROJECT #:	NA	NEL SAMPLE ID:	P0011022-01
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Barium	0.37	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Boron	0.46	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Calcium	1730	50. mg/L	100	EPA 6010	11/7/00	11/8/00
Chromium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Copper	ND	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Iron	1.1	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Lead	ND	0.05 mg/L	1	EPA 6010	11/7/00	11/8/00
Magnesium	560	50. mg/L	100	EPA 6010	11/7/00	11/8/00
Manganese	0.37	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Mercury	0.00028	0.0002 mg/L	1	EPA 7470A	11/8/00	11/8/00
Potassium	33	2. mg/L	1	EPA 6010	11/7/00	11/8/00
Selenium	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Silica	26	1. mg/L	1	SM 4500Si-D	NA	11/7/00
Silver	ND	0.02 mg/L	1	EPA 6010	11/7/00	11/8/00
Sodium	4440	50. mg/L	100	EPA 6010	11/7/00	11/8/00
Zinc	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00

D. F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **MOO-0228**
DATE SAMPLED: 11/1/00
NEL SAMPLE ID: P0011022-02

TEST: **Metals**
MATRIX: Aqueous

ANALYST: FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Barium	0.25	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Boron	0.31	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Calcium	120	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Chromium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Copper	0.0061	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Iron	3.0	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Lead	ND	0.05 mg/L	1	EPA 6010	11/7/00	11/8/00
Magnesium	45	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Manganese	0.29	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/8/00	11/8/00
Potassium	65	2. mg/L	1	EPA 6010	11/7/00	11/8/00
Selenium	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Silica	19	1. mg/L	1	SM 4500Si-D	NA	11/7/00
Silver	ND	0.02 mg/L	1	EPA 6010	11/7/00	11/8/00
Sodium	800	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Zinc	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00

D. F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0229**
PROJECT ID:	JAL #4	DATE SAMPLED:	11/1/00
PROJECT #:	NA	NEL SAMPLE ID:	P0011022-03
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Barium	ND	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Boron	0.14	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Calcium	0.22	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Chromium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Copper	0.093	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Iron	0.19	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Lead	ND	0.05 mg/L	1	EPA 6010	11/7/00	11/8/00
Magnesium	ND	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Manganese	ND	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/8/00	11/8/00
Potassium	ND	2. mg/L	1	EPA 6010	11/7/00	11/8/00
Selenium	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Silica	1.1	1. mg/L	1	SM 4500Si-D	NA	11/7/00
Silver	ND	0.02 mg/L	1	EPA 6010	11/7/00	11/8/00
Sodium	2.3	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Zinc	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	MOO-0230
PROJECT ID:	JAL #4	DATE SAMPLED:	11/1/00
PROJECT #:	NA	NEL SAMPLE ID:	P0011022-04
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Barium	0.068	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Boron	0.30	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Calcium	65	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Chromium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Copper	ND	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Iron	0.27	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Lead	ND	0.05 mg/L	1	EPA 6010	11/7/00	11/8/00
Magnesium	23	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Manganese	0.037	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/8/00	11/8/00
Potassium	14	2. mg/L	1	EPA 6010	11/7/00	11/8/00
Selenium	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Silica	25	1. mg/L	1	SM 4500Si-D	NA	11/7/00
Silver	ND	0.02 mg/L	1	EPA 6010	11/7/00	11/8/00
Sodium	300	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Zinc	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00

D. F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	001107SI-BLK
_ST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	NA	11/7/00

D.F. - Dilution Factor

ND - Not Detected

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- NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	L011051HG-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/8/00	11/8/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P11026I-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Barium	ND	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Boron	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Calcium	ND	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Chromium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Copper	ND	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Iron	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Lead	ND	0.05 mg/L	1	EPA 6010	11/7/00	11/8/00
Magnesium	ND	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Manganese	ND	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Potassium	ND	2. mg/L	1	EPA 6010	11/7/00	11/8/00
Selenium	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Silver	ND	0.02 mg/L	1	EPA 6010	11/7/00	11/8/00
Sodium	ND	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Zinc	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00

F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA

CLIENT ID: **MOO-0227**
DATE SAMPLED: 11/1/00
NEL SAMPLE ID: P0011022-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	190			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity, Total	190		25.	1	SM 2320 B	mg/L	11/7/00
Bromide	ND		2.	10	EPA 300.0	mg/L	11/4/00
Chloride	10000		250.	2500	EPA 300.0	mg/L	11/6/00
Fluoride	ND		0.4	1	SM 4500-F C	mg/L	11/9/00
Hardness, Total (as CaCO3)	6600		200.	100	EPA 200.7	mg/L	11/9/00
Nitrate, as N	ND	Hr	1.	10	EPA 300.0	mg/L-N	11/4/00
pH	6.82	Hr	2.	1	EPA 150.1	pH Units	11/4/00
pH Temperature	13.1		1.	1	EPA 150.1	°C	11/4/00
Specific Conductance	25700		1.	1	SM 2510 B	µS/cm	11/7/00
Sulfate	490		50.	500	EPA 300.0	mg/L	11/3/00
Total Dissolved Solids	21900		300.	20	SM 2540 C	mg/L	11/7/00

R. L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **MOO-0228**
DATE SAMPLED: 11/1/00
NEL SAMPLE ID: P0011022-02

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	140			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity, Total	140		25.	1	SM 2320 B	mg/L	11/7/00
Bromide	ND		2.	10	EPA 300.0	mg/L	11/4/00
Chloride	3300		250.	2500	EPA 300.0	mg/L	11/6/00
Fluoride	1.9		0.4	1	SM 4500-F C	mg/L	11/9/00
Hardness, Total (as CaCO3)	480		2.	1	EPA 200.7	mg/L	11/9/00
Nitrate, as N	ND	Hr	1.	10	EPA 300.0	mg/L-N	11/4/00
pH	8.03	Hr	2.	1	EPA 150.1	pH Units	11/4/00
pH Temperature	14.4		1.	1	EPA 150.1	°C	11/4/00
Specific Conductance	9200		1.	1	SM 2510 B	µS/cm	11/7/00
Sulfate	240		5.	50	EPA 300.0	mg/L	11/6/00
Total Dissolved Solids	6080		150.	10	SM 2540 C	mg/L	11/7/00

. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **MOO-0229**
DATE SAMPLED: 11/1/00
NEL SAMPLE ID: P0011022-03

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity, Total	ND		25.	1	SM 2320 B	mg/L	11/7/00
Bromide	ND		0.2	1	EPA 300.0	mg/L	11/3/00
Chloride	3.3		0.1	1	EPA 300.0	mg/L	11/3/00
Fluoride	ND		0.4	1	SM 4500-F C	mg/L	11/9/00
Hardness, Total (as CaCO3)	ND		2.	1	EPA 200.7	mg/L	11/9/00
Nitrate, as N	ND	Hr	0.1	1	EPA 300.0	mg/L-N	11/3/00
pH	5.09	Hr	2.	1	EPA 150.1	pH Units	11/4/00
pH Temperature	15.1		1.	1	EPA 150.1	°C	11/4/00
Specific Conductance	11.4		1.	1	SM 2510 B	µS/cm	11/7/00
Sulfate	ND		0.1	1	EPA 300.0	mg/L	11/3/00
Total Dissolved Solids	ND		15.	1	SM 2540 C	mg/L	11/7/00

R. L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA

CLIENT ID: **MOO-0230**
DATE SAMPLED: 11/1/00
NEL SAMPLE ID: P0011022-04

EST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	170			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity, Total	170		25.	1	SM 2320 B	mg/L	11/7/00
Bromide	ND		2.	10	EPA 300.0	mg/L	11/3/00
Chloride	420		25.	250	EPA 300.0	mg/L	11/7/00
Fluoride	1.6		0.4	1	SM 4500-F C	mg/L	11/9/00
Hardness, Total (as CaCO3)	260		2.	1	EPA 200.7	mg/L	11/9/00
Nitrate, as N	1.4	Hr	1.	10	EPA 300.0	mg/L-N	11/3/00
pH	7.78	Hr	2.	1	EPA 150.1	pH Units	11/4/00
pH Temperature	17.1		1.	1	EPA 150.1	°C	11/4/00
Specific Conductance	1630		1.	1	SM 2510 B	µS/cm	11/7/00
Sulfate	120		2.	20	EPA 300.0	mg/L	11/6/00
Total Dissolved Solids	1090		15.	1	SM 2540 C	mg/L	11/7/00

.. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	001103IC-BLK
ST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	11/3/00
Chloride	ND	0.1	1	EPA 300.0	mg/L	11/3/00
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	11/3/00
Nitrite, as N	ND	0.1	1	EPA 300.0	mg/L-N	11/3/00
Sulfate	ND	0.1	1	EPA 300.0	mg/L	11/3/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	001104IC-BLK
ST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	11/4/00
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	11/4/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	001106IC-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	11/6/00
Sulfate	ND	0.1	1	EPA 300.0	mg/L	11/6/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	001107ALK-BLK

ST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D.F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND		1	SM 2320 B	mg/L	11/7/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	11/7/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	11/7/00
Alkalinity, Total	ND	25	1	SM 2320 B	mg/L	11/7/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	001107IC-BLK
ST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	11/7/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	001107TDSA-BLK
ST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	11/7/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	001109F-BLK
.ST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	11/9/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0227**
PROJECT ID:	JAL #4	DATE SAMPLED:	11/1/00
PROJECT #:	NA	NEL SAMPLE ID:	P0011022-01

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	JQT - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/6/00
DILUTION:	1	ANALYZED:	11/6/00

PARAMETER	Result		Reporting Limit
Benzene	16	µg/L	2. µg/L
Toluene	ND		2. µg/L
Ethylbenzene	ND		2. µg/L
Total Xylenes	ND		4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	102	86 - 115
Toluene-d8	99	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0228**
PROJECT ID:	JAL #4	DATE SAMPLED:	11/1/00
PROJECT #:	NA	NEL SAMPLE ID:	P0011022-02

JT: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	JQT - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/6/00
DILUTION:	1	ANALYZED:	11/6/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	99	86 - 115
Toluene-d8	99	88 - 110

ND - Not Detected

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NEL LABORATORIES

ACW#7

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	MOO-0229
PROJECT ID:	JAL #4	DATE SAMPLED:	11/1/00
PROJECT #:	NA	NEL SAMPLE ID:	P0011022-03

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	JQT - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/6/00
DILUTION:	1	ANALYZED:	11/6/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	100	86 - 115
Toluene-d8	100	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0230**
PROJECT ID:	JAL #4	DATE SAMPLED:	11/1/00
PROJECT #:	NA	NEL SAMPLE ID:	P0011022-04
TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	JQT - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/6/00
DILUTION:	1	ANALYZED:	11/6/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	101	86 - 115
Toluene-d8	100	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	001106AQ60BX_1B-BLK

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	JQT - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/6/00
		ANALYZED:	11/6/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	101	86 - 115
Toluene-d8	100	88 - 110

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
'ST: **Inorganic Non-Metals**
ATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	001103IC-LCS	100	98	98	90 - 110	
Chloride	001103IC-LCSD	100	98	98	90 - 110	0.
Bromide	001103IC-LCS	100	99	99	90 - 110	
Bromide	001103IC-LCSD	100	100	100	90 - 110	1.
Sulfate	001103IC-LCS	100	101	101	90 - 110	
Sulfate	001103IC-LCSD	100	106	106	90 - 110	4.8
Nitrite, as N	001103IC-LCS	100	102	102	90 - 110	
Nitrite, as N	001103IC-LCSD	100	102	102	90 - 110	0.
Nitrate, as N	001103IC-LCS	100	97	97	90 - 110	
Nitrate, as N	001103IC-LCSD	100	100	100	90 - 110	3.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
ST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Bromide	001104IC-LCS	100	100	100	90 - 110	
Bromide	001104IC-LCSD	100	100	100	90 - 110	0.
Nitrite, as N	001104IC-LCS	100	100	100	90 - 110	
Nitrite, as N	001104IC-LCSD	100	99	99	90 - 110	1.
Nitrate, as N	001104IC-LCS	100	94	94	90 - 110	
Nitrate, as N	001104IC-LCSD	100	95	95	90 - 110	1.1

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
7.00 Buffer	001104PH-LCS	7	7.01	100	99 - 101	
7.00 Buffer	001104PH-LCSD	7	7.02	100	99 - 101	0.1

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Benzene	001106AQ60BX_1B-LCS	50	46.04	92	80 - 120	
Benzene	P0011022-04-MS	50	49.94	100	76 - 127	
Benzene	P0011022-04-MSD	50	49.39	99	76 - 127	1.1
Toluene	001106AQ60BX_1B-LCS	50	47.84	96	80 - 120	
Toluene	P0011022-04-MS	50	50.6	101	76 - 125	
Toluene	P0011022-04-MSD	50	50.02	100	76 - 125	1.2
Ethylbenzene	001106AQ60BX_1B-LCS	50	46.14	92	80 - 120	
Ethylbenzene	P0011022-04-MS	50	48.92	98	70 - 130	
Ethylbenzene	P0011022-04-MSD	50	48.5	97	70 - 130	0.9
Total Xylenes	001106AQ60BX_1B-LCS	150	147.13	98	80 - 120	
Total Xylenes	P0011022-04-MS	150	153.68	102	70 - 130	
Total Xylenes	P0011022-04-MSD	150	153.76	103	70 - 130	1.

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
QT: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	001106IC-LCS	100	97	97	90 - 110	
Chloride	001106IC-LCSD	100	97	97	90 - 110	0.
Sulfate	001106IC-LCS	100	109	109	90 - 110	
Sulfate	001106IC-LCSD	100	104	104	90 - 110	4.7

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Alkalinity, Total	001107ALK-LCS	125	125.42	100	90 - 110	
Alkalinity, Total	001107ALK-LCSD	125	123.94	99	90 - 110	1.2

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Specific Conductance	001107COND-LCS	1412	1410	100	95 - 105	

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	001107IC-LCS	100	98	98	90 - 110	
Chloride	001107IC-LCSD	100	94	94	90 - 110	4.2

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
T: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	001107TDSA-LCS	1000	991	99	94 - 102	

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Fluoride	001109F-LCS	2	2	100	84 - 109	
Fluoride	001109F-LCSD	2	1.996	100	84 - 109	0.2
Fluoride	P0011022-01-MS	1	1.1	110	71 - 126	
Fluoride	P0011022-01-MSD	1	1.2	120	71 - 126	8.7

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Mercury	L011051HG-LCS	0.005	0.00503	101	85 - 115	
Mercury	L0011051-08-MS	0.005	0.00462	92	70 - 130	
Mercury	L0011051-08-MSD	0.005	0.0041	82	70 - 130	0.

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery		Acceptable Range	RPD
Arsenic	P11026I-LCS	0.5	0.509	102		85 - 115	
Arsenic	P0011026-01-MS	0.5	0.51	102		75 - 125	
Arsenic	P0011026-01-MSD	0.5	0.52	104		75 - 125	1.9
Barium	P11026I-LCS	1	1.07	107		85 - 115	
Barium	P0011026-01-MS	1	1.1	96		75 - 125	
Barium	P0011026-01-MSD	1	1.12	98		75 - 125	2.1
Boron	P11026I-LCS	1	1.08	108		85 - 115	
Boron	P0011026-01-MS	1	1.53	96		75 - 125	
Boron	P0011026-01-MSD	1	1.6	103		75 - 125	7.
Cadmium	P11026I-LCS	0.2	0.217	109		85 - 115	
Cadmium	P0011026-01-MS	0.2	0.213	107		75 - 125	
Cadmium	P0011026-01-MSD	0.2	0.219	110		75 - 125	2.8
Calcium	P11026I-LCS	10	10.9	109		85 - 115	
Calcium	P0011026-01-MS	10	454	-460	C	75 - 125	
Calcium	P0011026-01-MSD	10	503	30	C	75 - 125	-227.9
Chromium	P11026I-LCS	0.5	0.539	108		85 - 115	
omium	P0011026-01-MS	0.5	0.507	101		75 - 125	
romium	P0011026-01-MSD	0.5	0.517	103		75 - 125	2.
Copper	P11026I-LCS	0.5	0.548	110		85 - 115	
Copper	P0011026-01-MS	0.5	0.526	104		75 - 125	
Copper	P0011026-01-MSD	0.5	0.534	106		75 - 125	1.5
Iron	P11026I-LCS	1	1	100		85 - 115	
Iron	P0011026-01-MS	1	2.4	100		75 - 125	
Iron	P0011026-01-MSD	1	2.35	95		75 - 125	5.1
Lead	P11026I-LCS	1	1.07	107		85 - 115	
Lead	P0011026-01-MS	1	1.01	101		75 - 125	
Lead	P0011026-01-MSD	1	1.04	104		75 - 125	2.9
Magnesium	P11026I-LCS	10	10.5	105		85 - 115	
Magnesium	P0011026-01-MS	10	151	-90	C	75 - 125	
Magnesium	P0011026-01-MSD	10	166	60	C	75 - 125	-1000.
Manganese	P11026I-LCS	0.5	0.549	110		85 - 115	
Manganese	P0011026-01-MS	0.5	0.884	91		75 - 125	
Manganese	P0011026-01-MSD	0.5	0.93	100		75 - 125	9.6
Potassium	P11026I-LCS	10	11.4	114		85 - 115	
Potassium	P0011026-01-MS	10	25.9	79		75 - 125	
Potassium	P0011026-01-MSD	10	27.5	95		75 - 125	18.4
Selenium	P11026I-LCS	0.5	0.513	103		85 - 115	
enium	P0011026-01-MS	0.5	0.529	106		75 - 125	

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery		Acceptable Range	RPD
Selenium	P0011026-01-MSD	0.1	0.539	108		75 - 125	1.9
Silver	P11026I-LCS	0.5	0.55	110		85 - 115	
Silver	P0011026-01-MS	0.5	0.529	106		75 - 125	
Silver	P0011026-01-MSD	0.5	0.541	108		75 - 125	2.2
Sodium	P11026I-LCS	10	11.5	115		85 - 115	
Sodium	P0011026-01-MS	10	636	-340	C	75 - 125	
Sodium	P0011026-01-MSD	10	637	-330	C	75 - 125	-3.
Zinc	P11026I-LCS	0.5	0.556	111		85 - 115	
Zinc	P0011026-01-MS	0.5	0.554	111		75 - 125	
Zinc	P0011026-01-MSD	0.5	0.566	113		75 - 125	2.1

ND - Not Detected

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EL PASO NATURAL GAS

Due 11/10

CHAIN OF CUSTODY RECORD

Las Vegas Lead

PO011022

Page 1 of 1

PROJECT NUMBER	PROJECT NAME				TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS						CONTRACT LABORATORY
	Jal #4												
SAMPLERS: (Signature)		DATE:											
		11/1/00											
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER			Cations + Anions	8260 Full Scan	BTEX	TDS	Metals	Heavy Metals	REMARKS
01	11/1/00	1125	H2O	MOO-0227	5		X	X	X	X	X	X	#02 for Methyls Had a little hole. Transferred to new container 11-3-00
02	11/1/00	1205	H2O	MOO-0228	5		X	X	X	X	X	X	
03	11/1/00	1210	H2O	MOO-0229	5		X	X	X	X	X	X	
04	11/1/00	1310	H2O	MOO-0230	5		X	X	X	X	X	X	

Custody Seal Intact? Y N (N/A)

Condition when received: Poor

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	11/2/00 0700	Via Fed-X		11/3 0940	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY LABORATORY BY: (Signature)
					MTL-LV

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO.:

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX: 915-587-3835

White - Testing Lab Canary - EPNG Lab Pink - Field Sampler

08 0566 (Rev 10 99)

NEL LABORATORIES
Reno • Las Vegas • Boise
Phoenix • Sacramento

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4
PROJECT NUMBER: NA

NEL ORDER ID: P0011025

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 11/4/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

Hr - Sample was received beyond holding time for this parameter.

Jl - The batch MS and/or MSD were outside acceptance limits. The batch LCS was acceptable.

Some QA results have been flagged as follows:

C - Sample concentration is a least 5 times greater than spike contribution. Spike recovery criteria do not apply.

Jl - The batch MS and/or MSD were outside acceptance limits. The batch LCS was acceptable.

Stan Van Wagenen
Laboratory Manager

11/14/00
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES
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Phoenix • Sacramento

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4
PROJECT NUMBER: NA

NEL ORDER ID: P0011024

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 11/6/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

Hr - Sample was received beyond holding time for this parameter.

Some QA results have been flagged as follows:

C - Sample concentration is a least 5 times greater than spike contribution. Spike recovery criteria do not apply.

Jl - The batch MS and/or MSD were outside acceptance limits. The batch LCS was acceptable.

Stan Van Wagenen
Laboratory Manager

11/15/00
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	MOO-0231
PROJECT ID:	JAL #4	DATE SAMPLED:	11/2/00
PROJECT #:	NA	NEL SAMPLE ID:	P0011024-01
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Barium	0.94	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Boron	0.75	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Calcium	240	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Chromium	0.012	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Copper	0.0052	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Iron	12	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Lead	ND	0.05 mg/L	1	EPA 6010	11/7/00	11/8/00
Magnesium	87	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Manganese	0.11	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/8/00	11/8/00
Potassium	4.2	2. mg/L	1	EPA 6010	11/7/00	11/8/00
Selenium	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Silica	31	1. mg/L	1	SM 4500Si-D	NA	11/7/00
Silver	ND	0.02 mg/L	1	EPA 6010	11/7/00	11/8/00
Sodium	710	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
[illegible]c	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0232**
PROJECT ID:	JAL #4	DATE SAMPLED:	11/2/00
OJECT #:	NA	NEL SAMPLE ID:	P0011024-02
..EST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	0.82	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Barium	0.28	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Boron	1.5	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Calcium	83	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Chromium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Copper	0.016	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Iron	9.7	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Lead	ND	0.05 mg/L	1	EPA 6010	11/7/00	11/8/00
Magnesium	22	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Manganese	0.13	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/8/00	11/8/00
Potassium	6.9	2. mg/L	1	EPA 6010	11/7/00	11/8/00
Selenium	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Silica	30	1. mg/L	1	SM 4500Si-D	NA	11/7/00
Silver	ND	0.02 mg/L	1	EPA 6010	11/7/00	11/8/00
Sodium	710	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
ıc	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00

F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	MOO-0234
PROJECT ID:	JAL #4	DATE SAMPLED:	11/2/00
PROJECT #:	NA	NEL SAMPLE ID:	P0011024-03
TEST:	Metals		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Barium	0.051	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Boron	1.1	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Calcium	200	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Chromium	0.028	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Copper	0.0095	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Iron	1.6	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Lead	ND	0.05 mg/L	1	EPA 6010	11/7/00	11/8/00
Magnesium	23	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Manganese	0.032	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/8/00	11/8/00
Potassium	6.1	2. mg/L	1	EPA 6010	11/7/00	11/8/00
Selenium	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Silica	34	1. mg/L	1	SM 4500Si-D	NA	11/7/00
Silver	ND	0.02 mg/L	1	EPA 6010	11/7/00	11/8/00
Sodium	450	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Zinc	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00

D. F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0236**
PROJECT ID:	JAL #4	DATE SAMPLED:	11/2/00
PROJECT #:	NA	NEL SAMPLE ID:	P0011024-04
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Barium	0.064	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Boron	0.27	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Calcium	53	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Chromium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Copper	ND	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Iron	0.22	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Lead	ND	0.05 mg/L	1	EPA 6010	11/7/00	11/8/00
Magnesium	18	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Manganese	0.026	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/8/00	11/8/00
Potassium	16	2. mg/L	1	EPA 6010	11/7/00	11/8/00
Selenium	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Silica	27	1. mg/L	1	SM 4500Si-D	NA	11/7/00
Silver	ND	0.02 mg/L	1	EPA 6010	11/7/00	11/8/00
Sodium	250	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
c	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00

D. F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	001107SI-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	NA	11/7/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	L011051HG-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/8/00	11/8/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P11026I-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Barium	ND	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Boron	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Calcium	ND	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Chromium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Copper	ND	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Iron	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Lead	ND	0.05 mg/L	1	EPA 6010	11/7/00	11/8/00
Magnesium	ND	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Manganese	ND	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Potassium	ND	2. mg/L	1	EPA 6010	11/7/00	11/8/00
Selenium	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Silver	ND	0.02 mg/L	1	EPA 6010	11/7/00	11/8/00
Sodium	ND	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Zinc	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00

D. F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA

CLIENT ID: **MOO-0231**
DATE SAMPLED: 11/2/00
NEL SAMPLE ID: P0011024-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	840			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity, Total as CaCO3	840		25.	1	SM 2320 B	mg/L	11/7/00
Bromide	ND		20.	100	EPA 300.0	mg/L	11/10/00
Chloride	5100		200.	2000	EPA 300.0	mg/L	11/10/00
Fluoride	3.0		0.4	1	SM 4500-F C	mg/L	11/9/00
Hardness, Total (as CaCO3)	960		2.	1	EPA 200.7	mg/L	11/9/00
Nitrate/Nitrite as N, Total	ND		0.05	1	SM 4500-NO3 F	mg/L-N	11/13/00
pH	7.1	Hr	2.	1	EPA 150.1	pH Units	11/6/00
pH Temperature	19.0		1.	1	EPA 150.1	°C	11/6/00
Specific Conductance	12500		1.	1	SM 2510 B	µS/cm	11/8/00
Sulfate	200		10.	100	EPA 300.0	mg/L	11/10/00
Total Dissolved Solids	8400		150.	10	SM 2540 C	mg/L	11/8/00

..- Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **MOO-0232**
DATE SAMPLED: 11/2/00
NEL SAMPLE ID: P0011024-02

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	1200			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Carbonate as CaCO3	14			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity, Total as CaCO3	1200		25.	1	SM 2320 B	mg/L	11/7/00
Bromide	ND		10.	50	EPA 300.0	mg/L	11/11/00
Chloride	3100		100.	1000	EPA 300.0	mg/L	11/9/00
Fluoride	22.9		2.	5	SM 4500-F C	mg/L	11/9/00
Hardness, Total (as CaCO3)	300		2.	1	EPA 200.7	mg/L	11/9/00
Nitrate/Nitrite as N, Total	ND		0.05	1	SM 4500-NO3 F	mg/L-N	11/13/00
pH	8.2	Hr	2.	1	EPA 150.1	pH Units	11/6/00
pH Temperature	18.4		1.	1	EPA 150.1	°C	11/6/00
Specific Conductance	8520		1.	1	SM 2510 B	µS/cm	11/8/00
Sulfate	340		5.	50	EPA 300.0	mg/L	11/11/00
Total Dissolved Solids	4350		150.	10	SM 2540 C	mg/L	11/8/00

. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
CLIENT ID: **MOO-0234**
DATE SAMPLED: 11/2/00
NEL SAMPLE ID: P0011024-03

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	280			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity, Total as CaCO3	280		25.	1	SM 2320 B	mg/L	11/7/00
Bromide	ND		40.	200	EPA 300.0	mg/L	11/11/00
Chloride	860		20.	200	EPA 300.0	mg/L	11/11/00
Fluoride	0.85		0.4	1	SM 4500-F C	mg/L	11/9/00
Hardness, Total (as CaCO3)	590		2.	1	EPA 200.7	mg/L	11/9/00
Nitrate/Nitrite as N, Total	5.3		0.5	10	SM 4500-NO3 F	mg/L-N	11/13/00
pH	7.3	Hr	2.	1	EPA 150.1	pH Units	11/6/00
pH Temperature	18.5		1.	1	EPA 150.1	°C	11/6/00
Specific Conductance	2650		1.	1	SM 2510 B	µS/cm	11/8/00
Sulfate	750		20.	200	EPA 300.0	mg/L	11/11/00
Total Dissolved Solids	1920		30.	2	SM 2540 C	mg/L	11/8/00

R. L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

CLIENT ID: **MOO-0236**
DATE SAMPLED: 11/2/00
NEL SAMPLE ID: P0011024-04

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	180			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity, Total as CaCO3	180		25.	1	SM 2320 B	mg/L	11/7/00
Bromide	ND		20.	100	EPA 300.0	mg/L	11/11/00
Chloride	360		10.	100	EPA 300.0	mg/L	11/11/00
Fluoride	1.4		0.4	1	SM 4500-F C	mg/L	11/9/00
Hardness, Total (as CaCO3)	210		2.	1	EPA 200.7	mg/L	11/9/00
Nitrate/Nitrite as N, Total	0.93		0.05	1	SM 4500-NO3 F	mg/L-N	11/13/00
pH	7.8	Hr	2.	1	EPA 150.1	pH Units	11/6/00
pH Temperature	18.4		1.	1	EPA 150.1	°C	11/6/00
Specific Conductance	1380		1.	1	SM 2510 B	µS/cm	11/8/00
Sulfate	100		10.	100	EPA 300.0	mg/L	11/11/00
Total Dissolved Solids	876		15.	1	SM 2540 C	mg/L	11/8/00

R. L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected
This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	001107ALK-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND		1	SM 2320 B	mg/L	11/7/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	11/7/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	11/7/00
Alkalinity, Total	ND	25	1	SM 2320 B	mg/L	11/7/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	001108TDS-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D.F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	11/8/00

D.F. - Dilution Factor

ND - Not Detected

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-NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
`OJECT #:	NA	NEL SAMPLE ID:	001109F-BLK
,ɛST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	11/9/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	001109IC-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	11/9/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	001110IC-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	11/10/00
Chloride	ND	0.1	1	EPA 300.0	mg/L	11/10/00
Sulfate	ND	0.1	1	EPA 300.0	mg/L	11/10/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	001111IC-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	11/11/00
Chloride	ND	0.1	1	EPA 300.0	mg/L	11/11/00
Sulfate	ND	0.1	1	EPA 300.0	mg/L	11/11/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	001113NO2NO3A-BLK
.EST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Nitrate/Nitrite as N, Total	ND	0.05	1	SM 4500-NO3 F	mg/L-N	11/13/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0231**
PROJECT ID:	JAL #4	DATE SAMPLED:	11/2/00
PROJECT #:	NA	NEL SAMPLE ID:	P0011024-01

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/13/00
DILUTION:	1	ANALYZED:	11/13/00

PARAMETER	Result	Reporting Limit
Benzene	ND	5 µg/L
Toluene	ND	5 µg/L
Ethylbenzene	ND	5 µg/L
Total Xylenes	ND	10 µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	104	86 - 115
Toluene-d8	100	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0232**
PROJECT ID:	JAL #4	DATE SAMPLED:	11/2/00
PROJECT #:	NA	NEL SAMPLE ID:	P0011024-02
TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/13/00
DILUTION:	1	ANALYZED:	11/13/00

PARAMETER	Result	Reporting Limit
Benzene	ND	5 µg/L
Toluene	ND	5 µg/L
Ethylbenzene	ND	5 µg/L
Total Xylenes	ND	10 µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	101	86 - 115
Toluene-d8	100	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0234**
PROJECT ID:	JAL #4	DATE SAMPLED:	11/2/00
PROJECT #:	NA	NEL SAMPLE ID:	P0011024-03
TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/9/00
DILUTION:	1	ANALYZED:	11/9/00

PARAMETER	Result	Reporting Limit
Benzene	ND	5 µg/L
Toluene	ND	5 µg/L
Ethylbenzene	ND	5 µg/L
Total Xylenes	ND	10 µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	101	86 - 115
Toluene-d8	101	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0236**
PROJECT ID:	JAL #4	DATE SAMPLED:	11/2/00
PROJECT #:	NA	NEL SAMPLE ID:	P0011024-04

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/9/00
DILUTION:	1	ANALYZED:	11/9/00

PARAMETER	Result	Reporting Limit
Benzene	ND	5 µg/L
Toluene	ND	5 µg/L
Ethylbenzene	ND	5 µg/L
Total Xylenes	ND	10 µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	101	86 - 115
Toluene-d8	99	88 - 110

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	001109AQ60BX_2B-BLK
TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	SJO - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/9/00
		ANALYZED:	11/9/00

PARAMETER	Result	Reporting Limit
Benzene	ND	5. µg/L
Toluene	ND	5. µg/L
Ethylbenzene	ND	5. µg/L
Total Xylenes	ND	10. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	102	86 - 115
Toluene-d8	99	88 - 110

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
OJECT ID:	JAL #4	DATE SAMPLED:	NA
.OJECT #:	NA	NEL SAMPLE ID:	001113AQ60BX_2B-BLK
TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/13/00
		ANALYZED:	11/13/00

PARAMETER	Result	Reporting Limit
Benzene	ND	5. µg/L
Toluene	ND	5. µg/L
Ethylbenzene	ND	5. µg/L
Total Xylenes	ND	10. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	106	86 - 115
Toluene-d8	101	88 - 110

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
7.00 Buffer	001106PH-LCS	7	7	100	99 - 101	
7.00 Buffer	001106PH-LCSD	7	7	100	99 - 101	0.

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
QC: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Alkalinity, Total	001107ALK-LCS	125	125.42	100	90 - 110	
Alkalinity, Total	001107ALK-LCSD	125	123.94	99	90 - 110	1.2

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Specific Conductance	001108COND-LCS	1412	1410	100	95 - 105	

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	001108TDS-LCS	1000	956	96	94 - 102	

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery		Acceptable Range	RPD
Benzene	001109AQ60BX_2B-LCS	50	49.29	99		80 - 120	
Benzene	P0011025-02-MS	50	39.74	79		76 - 127	
Benzene	P0011025-02-MSD	50	40.84	82		76 - 127	2.7
Toluene	001109AQ60BX_2B-LCS	50	48.61	97		80 - 120	
Toluene	P0011025-02-MS	50	37.13	74	J1	76 - 125	
Toluene	P0011025-02-MSD	50	37.47	75	J1	76 - 125	0.9
Ethylbenzene	001109AQ60BX_2B-LCS	50	51.47	103		80 - 120	
Ethylbenzene	P0011025-02-MS	50	37.65	75		70 - 130	
Ethylbenzene	P0011025-02-MSD	50	35.83	72		70 - 130	5.
Total Xylenes	001109AQ60BX_2B-LCS	150	157.61	105		80 - 120	
Total Xylenes	P0011025-02-MS	150	117.06	78		70 - 130	
Total Xylenes	P0011025-02-MSD	150	112.11	75		70 - 130	4.3

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Fluoride	001109F-LCS	2	2	100	84 - 109	
Fluoride	001109F-LCSD	2	2	100	84 - 109	0.2
Fluoride	P0011022-01-MS	1	1.1	110	71 - 126	
Fluoride	P0011022-01-MSD	1	1.2	120	71 - 126	8.7

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	001109IC-LCS	100	97	97	90 - 110	
Chloride	001109IC-LCSD	100	98	98	90 - 110	1.

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	001110IC-LCS	100	98	98	90 - 110	
Chloride	001110IC-LCSD	100	98	98	90 - 110	0.
Bromide	001110IC-LCS	100	99	99	90 - 110	
Bromide	001110IC-LCSD	100	100	100	90 - 110	1.
Sulfate	001110IC-LCS	100	96	96	90 - 110	
Sulfate	001110IC-LCSD	100	98	98	90 - 110	2.1

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	001111IC-LCS	100	99	99	90 - 110	
Chloride	001111IC-LCSD	100	99	99	90 - 110	0.
Bromide	001111IC-LCS	100	100	100	90 - 110	
Bromide	001111IC-LCSD	100	100	100	90 - 110	0.
Sulfate	001111IC-LCS	100	97	97	90 - 110	
Sulfate	001111IC-LCSD	100	97	97	90 - 110	0.

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Mercury	L011051HG-LCS	0.005	0.00503	101	85 - 115	
Mercury	L0011051-08-MS	0.005	0.00462	92	70 - 130	
Mercury	L0011051-08-MSD	0.005	0.0041	82	70 - 130	0.

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery		Acceptable Range	RPD
Arsenic	P11026I-LCS	0.5	0.509	102		85 - 115	
Arsenic	P0011026-01-MS	0.5	0.51	102		75 - 125	
Arsenic	P0011026-01-MSD	0.5	0.52	104		75 - 125	1.9
Barium	P11026I-LCS	1	1.07	107		85 - 115	
Barium	P0011026-01-MS	1	1.1	96		75 - 125	
Barium	P0011026-01-MSD	1	1.12	98		75 - 125	2.1
Boron	P11026I-LCS	1	1.08	108		85 - 115	
Boron	P0011026-01-MS	1	1.53	96		75 - 125	
Boron	P0011026-01-MSD	1	1.6	103		75 - 125	7.
Cadmium	P11026I-LCS	0.2	0.217	109		85 - 115	
Cadmium	P0011026-01-MS	0.2	0.213	107		75 - 125	
Cadmium	P0011026-01-MSD	0.2	0.219	110		75 - 125	2.8
Calcium	P11026I-LCS	10	10.9	109		85 - 115	
Calcium	P0011026-01-MS	10	454	-460	C	75 - 125	
Calcium	P0011026-01-MSD	10	503	30	C	75 - 125	-227.9
Chromium	P11026I-LCS	0.5	0.539	108		85 - 115	
omium	P0011026-01-MS	0.5	0.507	101		75 - 125	
Chromium	P0011026-01-MSD	0.5	0.517	103		75 - 125	2.
Copper	P11026I-LCS	0.5	0.548	110		85 - 115	
Copper	P0011026-01-MS	0.5	0.526	104		75 - 125	
Copper	P0011026-01-MSD	0.5	0.534	106		75 - 125	1.5
Iron	P11026I-LCS	1	1	100		85 - 115	
Iron	P0011026-01-MS	1	2.4	100		75 - 125	
Iron	P0011026-01-MSD	1	2.35	95		75 - 125	5.1
Lead	P11026I-LCS	1	1.07	107		85 - 115	
Lead	P0011026-01-MS	1	1.01	101		75 - 125	
Lead	P0011026-01-MSD	1	1.04	104		75 - 125	2.9
Magnesium	P11026I-LCS	10	10.5	105		85 - 115	
Magnesium	P0011026-01-MS	10	151	-90	C	75 - 125	
Magnesium	P0011026-01-MSD	10	166	60	C	75 - 125	-1000.
Manganese	P11026I-LCS	0.5	0.549	110		85 - 115	
Manganese	P0011026-01-MS	0.5	0.884	91		75 - 125	
Manganese	P0011026-01-MSD	0.5	0.93	100		75 - 125	9.6
Potassium	P11026I-LCS	10	11.4	114		85 - 115	
Potassium	P0011026-01-MS	10	25.9	79		75 - 125	
Potassium	P0011026-01-MSD	10	27.5	95		75 - 125	18.4
Selenium	P11026I-LCS	0.5	0.513	103		85 - 115	
enium	P0011026-01-MS	0.5	0.529	106		75 - 125	

ND - Not Detected

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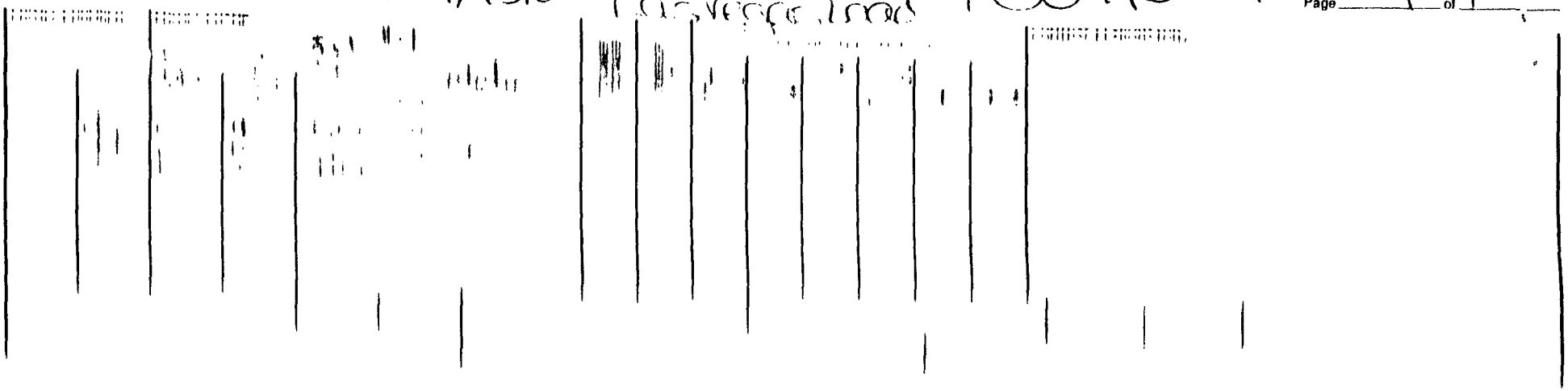
EL PASO NATURAL GAS

Due: 11/13/00

CHAIN OF CUSTODY RECORD

PO011024

Page 1 of 1



RATORIES
as • Boise
cramento

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

tural Gas Company
road Drive
X 79904
mpbell

NEL ORDER ID: P0011025

uits for samples in support of the above referenced project.

nect were not sampled by NEL Laboratories. Samples were received by NEL in custody on 11/4/00.

s or comments, please feel free to contact our Client Services department at (602)

ged as follows:

evond holding time for this parameter.

SD were outside acceptance limits. The batch LCS was acceptable.

agged as follows:

a least 5 times greater than spike contribution. Spike recovery criteria do not apply.

SD were outside acceptance limits. The batch LCS was acceptable.

11/14/00
Date

	as Vegas	S. California
	AZ0518	AZ0605
	2002	2264
	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0233**
PROJECT ID:	JAL #4	DATE SAMPLED:	11/2/00
OJECT #:	NA	NEL SAMPLE ID:	P0011025-01
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Barium	0.045	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Boron	0.25	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Calcium	53	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Chromium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Copper	0.037	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Iron	0.28	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Lead	ND	0.05 mg/L	1	EPA 6010	11/7/00	11/8/00
Magnesium	18	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Manganese	0.013	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/8/00	11/8/00
Potassium	5.0	2. mg/L	1	EPA 6010	11/7/00	11/8/00
Selenium	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Silica	32	1. mg/L	1	SM 4500Si-D	NA	11/7/00
Silver	ND	0.02 mg/L	1	EPA 6010	11/7/00	11/8/00
Sodium	79	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
c	0.19	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00

_.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **MOO-0233**
DATE SAMPLED: 11/2/00
NEL SAMPLE ID: P0011025-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	190			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity, Total	190		25.	1	SM 2320 B	mg/L	11/7/00
Bromide	ND		2.	10	EPA 300.0	mg/L	11/9/00
Chloride	32		1.	10	EPA 300.0	mg/L	11/9/00
Fluoride	1.0		0.4	1	SM 4500-F C	mg/L	11/9/00
Hardness, Total (as CaCO3)	210		2.	1	EPA 200.7	mg/L	11/9/00
Nitrate/Nitrite as N, Total	0.95		0.05	1	SM 4500-NO3 F	mg/L-N	11/13/00
pH	7.8	Hr	2.	1	EPA 150.1	pH Units	11/6/00
pH Temperature	18.4		1.	1	EPA 150.1	°C	11/6/00
Specific Conductance	530		1.	1	SM 2510 B	µS/cm	11/8/00
Sulfate	79		1.	10	EPA 300.0	mg/L	11/9/00
Total Dissolved Solids	375		15.	1	SM 2540 C	mg/L	11/8/00

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA

CLIENT ID: **MOO-0235**
DATE SAMPLED: 11/2/00
NEL SAMPLE ID: P0011025-02

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	150			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity, Total	150		25.	1	SM 2320 B	mg/L	11/7/00
Bromide	ND		2.	10	EPA 300.0	mg/L	11/9/00
Chloride	120		5.	50	EPA 300.0	mg/L	11/13/00
Fluoride	1.1		0.4	1	SM 4500-F C	mg/L	11/9/00
Hardness, Total (as CaCO3)	280		2.	1	EPA 200.7	mg/L	11/9/00
Nitrate/Nitrite as N, Total	0.70		0.05	1	SM 4500-NO3 F	mg/L-N	11/13/00
pH	7.8	Hr	2.	1	EPA 150.1	pH Units	11/6/00
pH Temperature	18.6		1.	1	EPA 150.1	°C	11/6/00
Specific Conductance	662		1.	1	SM 2510 B	µS/cm	11/8/00
Sulfate	60		1.	10	EPA 300.0	mg/L	11/9/00
Total Dissolved Solids	475		15.	1	SM 2540 C	mg/L	11/8/00

..L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0235**
PROJECT ID:	JAL #4	DATE SAMPLED:	11/2/00
OJECT #:	NA	NEL SAMPLE ID:	P0011025-02
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Barium	0.095	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Boron	0.21	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Calcium	76	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Chromium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Copper	ND	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Iron	0.93	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Lead	ND	0.05 mg/L	1	EPA 6010	11/7/00	11/8/00
Magnesium	22	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Manganese	0.019	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/8/00	11/8/00
Potassium	5.8	2. mg/L	1	EPA 6010	11/7/00	11/8/00
Selenium	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Silica	31	1. mg/L	1	SM 4500Si-D	NA	11/7/00
Silver	ND	0.02 mg/L	1	EPA 6010	11/7/00	11/8/00
Sodium	71	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
[illegible]	0.32	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00

D. F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	001107SI-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	NA	11/7/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	L011051HG-BLK

TEST: **Metals**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/8/00	11/8/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	P11026I-BLK

TEST: **Metals**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Barium	ND	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Boron	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Calcium	ND	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Chromium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Copper	ND	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Iron	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Lead	ND	0.05 mg/L	1	EPA 6010	11/7/00	11/8/00
Magnesium	ND	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Manganese	ND	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Potassium	ND	2. mg/L	1	EPA 6010	11/7/00	11/8/00
Selenium	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Silver	ND	0.02 mg/L	1	EPA 6010	11/7/00	11/8/00
Sodium	ND	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Zinc	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00

D. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: MOO-0233
DATE SAMPLED: 11/2/00
NEL SAMPLE ID: P0011025-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	190			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity, Total	190		25.	1	SM 2320 B	mg/L	11/7/00
Bromide	ND		2.	10	EPA 300.0	mg/L	11/9/00
Cation/Anion Balance	25		0.	1	Standard Methods	% Diff.	11/13/00
Chloride	32		1.	10	EPA 300.0	mg/L	11/9/00
Fluoride	1.0		0.4	1	SM 4500-F C	mg/L	11/9/00
Hardness, Total (as CaCO3)	210		2.	1	EPA 200.7	mg/L	11/9/00
Nitrate/Nitrite as N, Total	0.95		0.05	1	SM 4500-NO3 F	mg/L-N	11/13/00
pH	7.8	Hr	2.	1	EPA 150.1	pH Units	11/6/00
pH Temperature	18.4		1.	1	EPA 150.1	°C	11/6/00
Specific Conductance	530		1.	1	SM 2510 B	µS/cm	11/8/00
Sulfate	79		1.	10	EPA 300.0	mg/L	11/9/00
Total Dissolved Solids	375		15.	1	SM 2540 C	mg/L	11/8/00

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **MOO-0235**
DATE SAMPLED: 11/2/00
NEL SAMPLE ID: P0011025-02

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	150			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Carbonate	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Hydroxide	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity, Total	150		25.	1	SM 2320 B	mg/L	11/7/00
Bromide	ND		2.	10	EPA 300.0	mg/L	11/9/00
Cation/Anion Balance	17		0.	1	Standard Methods	% Diff.	11/13/00
Chloride	120		5.	50	EPA 300.0	mg/L	11/13/00
Fluoride	1.1		0.4	1	SM 4500-F C	mg/L	11/9/00
Hardness, Total (as CaCO3)	280		2.	1	EPA 200.7	mg/L	11/9/00
Nitrate/Nitrite as N, Total	0.70		0.05	1	SM 4500-NO3 F	mg/L-N	11/13/00
pH	7.8	Hr	2.	1	EPA 150.1	pH Units	11/6/00
pH Temperature	18.6		1.	1	EPA 150.1	°C	11/6/00
Specific Conductance	662		1.	1	SM 2510 B	µS/cm	11/8/00
Sulfate	60		1.	10	EPA 300.0	mg/L	11/9/00
Total Dissolved Solids	475		15.	1	SM 2540 C	mg/L	11/8/00

R.L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	001107ALK-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate	ND		1	SM 2320 B	mg/L	11/7/00
Alkalinity - Carbonate	ND		1	SM 2320 B	mg/L	11/7/00
Alkalinity - Hydroxide	ND		1	SM 2320 B	mg/L	11/7/00
Alkalinity, Total	ND	25	1	SM 2320 B	mg/L	11/7/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
)JECT #:	NA	NEL SAMPLE ID:	001108TDS-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	11/8/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	001109F-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	11/9/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
)JECT #:	NA	NEL SAMPLE ID:	001109IC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	11/9/00
Chloride	ND	0.1	1	EPA 300.0	mg/L	11/9/00
Nitrate, as N	ND	0.1	1	EPA 300.0	mg/L-N	11/9/00
Sulfate	ND	0.1	1	EPA 300.0	mg/L	11/9/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	001113IC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	11/13/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	001113NO2NO3A-BLK
TEST:	**Non-Metals**		

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Nitrate/Nitrite as N, Total	ND	0.05	1	SM 4500-NO3 F	mg/L-N	11/13/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0233**
PROJECT ID:	JAL #4	DATE SAMPLED:	11/2/00
PROJECT #:	NA	NEL SAMPLE ID:	P0011025-01

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	SJO - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/9/00
DILUTION:	1	ANALYZED:	11/9/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	101	86 - 115
Toluene-d8	99	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0235**
PROJECT ID:	JAL #4	DATE SAMPLED:	11/2/00
OJECT #:	NA	NEL SAMPLE ID:	P0011025-02

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	SJO - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/9/00
DILUTION:	1	ANALYZED:	11/9/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND J1	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	100	86 - 115
Toluene-d8	99	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
7.00 Buffer	001106PH-LCS	7	7	100	99 - 101	
7.00 Buffer	001106PH-LCSD	7	7	100	99 - 101	0.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Alkalinity, Total	001107ALK-LCS	125	125.42	100	90 - 110	
Alkalinity, Total	001107ALK-LCSD	125	123.94	99	90 - 110	1.2

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA
EST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Specific Conductance	001108COND-LCS	1412	1410	100	95 - 105	

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	001108TDS-LCS	1000	956	96	94 - 102	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery		Acceptable Range	RPD
Benzene	001109AQ60BX_2B-LCS	50	49.29	99		80 - 120	
Benzene	P0011025-02-MS	50	39.74	79		76 - 127	
Benzene	P0011025-02-MSD	50	40.84	82		76 - 127	2.7
Toluene	001109AQ60BX_2B-LCS	50	48.61	97		80 - 120	
Toluene	P0011025-02-MS	50	37.13	74	J1	76 - 125	
Toluene	P0011025-02-MSD	50	37.47	75	J1	76 - 125	0.9
Ethylbenzene	001109AQ60BX_2B-LCS	50	51.47	103		80 - 120	
Ethylbenzene	P0011025-02-MS	50	37.65	75		70 - 130	
Ethylbenzene	P0011025-02-MSD	50	35.83	72		70 - 130	5.
Total Xylenes	001109AQ60BX_2B-LCS	150	157.61	105		80 - 120	
Total Xylenes	P0011025-02-MS	150	117.06	78		70 - 130	
Total Xylenes	P0011025-02-MSD	150	112.11	75		70 - 130	4.3

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Fluoride	001109F-LCS	2	2	100	84 - 109	
Fluoride	001109F-LCSD	2	1.996	100	84 - 109	0.2
Fluoride	P0011022-01-MS	1	1.1	110	71 - 126	
Fluoride	P0011022-01-MSD	1	1.2	120	71 - 126	8.7

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA
EST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	001109IC-LCS	100	97	97	90 - 110	
Chloride	001109IC-LCSD	100	98	98	90 - 110	1.
Bromide	001109IC-LCS	100	100	100	90 - 110	
Bromide	001109IC-LCSD	100	101	101	90 - 110	1.
Sulfate	001109IC-LCS	100	90	90	90 - 110	
Sulfate	001109IC-LCSD	100	96	96	90 - 110	6.5
Nitrate, as N	001109IC-LCS	100	93	93	90 - 110	
Nitrate, as N	001109IC-LCSD	100	92	92	90 - 110	1.1

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	001113IC-LCS	100	105	105	90 - 110	
Chloride	001113IC-LCSD	100	105	105	90 - 110	0.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA
EST: **Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Mercury	L011051HG-LCS	0.005	0.00503	101	85 - 115	
Mercury	L0011051-08-MS	0.005	0.00462	92	70 - 130	
Mercury	L0011051-08-MSD	0.005	0.0041	82	70 - 130	0.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery		Acceptable Range	RPD
Arsenic	P11026I-LCS	0.5	0.509	102		85 - 115	
Arsenic	P0011026-01-MS	0.5	0.51	102		75 - 125	
Arsenic	P0011026-01-MSD	0.5	0.52	104		75 - 125	1.9
Barium	P11026I-LCS	1	1.07	107		85 - 115	
Barium	P0011026-01-MS	1	1.1	96		75 - 125	
Barium	P0011026-01-MSD	1	1.12	98		75 - 125	2.1
Boron	P11026I-LCS	1	1.08	108		85 - 115	
Boron	P0011026-01-MS	1	1.53	96		75 - 125	
Boron	P0011026-01-MSD	1	1.6	103		75 - 125	7.
Cadmium	P11026I-LCS	0.2	0.217	109		85 - 115	
Cadmium	P0011026-01-MS	0.2	0.213	107		75 - 125	
Cadmium	P0011026-01-MSD	0.2	0.219	110		75 - 125	2.8
Calcium	P11026I-LCS	10	10.9	109		85 - 115	
Calcium	P0011026-01-MS	10	454	-460	C	75 - 125	
Calcium	P0011026-01-MSD	10	503	30	C	75 - 125	-227.9
Chromium	P11026I-LCS	0.5	0.539	108		85 - 115	
Chromium	P0011026-01-MS	0.5	0.507	101		75 - 125	
Chromium	P0011026-01-MSD	0.5	0.517	103		75 - 125	2.
Copper	P11026I-LCS	0.5	0.548	110		85 - 115	
Copper	P0011026-01-MS	0.5	0.526	104		75 - 125	
Copper	P0011026-01-MSD	0.5	0.534	106		75 - 125	1.5
Iron	P11026I-LCS	1	1	100		85 - 115	
Iron	P0011026-01-MS	1	2.4	100		75 - 125	
Iron	P0011026-01-MSD	1	2.35	95		75 - 125	5.1
Lead	P11026I-LCS	1	1.07	107		85 - 115	
Lead	P0011026-01-MS	1	1.01	101		75 - 125	
Lead	P0011026-01-MSD	1	1.04	104		75 - 125	2.9
Magnesium	P11026I-LCS	10	10.5	105		85 - 115	
Magnesium	P0011026-01-MS	10	151	-90	C	75 - 125	
Magnesium	P0011026-01-MSD	10	166	60	C	75 - 125	-1000.
Manganese	P11026I-LCS	0.5	0.549	110		85 - 115	
Manganese	P0011026-01-MS	0.5	0.884	91		75 - 125	
Manganese	P0011026-01-MSD	0.5	0.93	100		75 - 125	9.6
Potassium	P11026I-LCS	10	11.4	114		85 - 115	
Potassium	P0011026-01-MS	10	25.9	79		75 - 125	
Potassium	P0011026-01-MSD	10	27.5	95		75 - 125	18.4
Selenium	P11026I-LCS	0.5	0.513	103		85 - 115	
Selenium	P0011026-01-MS	0.5	0.529	106		75 - 125	

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA
EST: **Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery		Acceptable Range	RPD
Selenium	P0011026-01-MSD	0.1	0.539	108		75 - 125	1.9
Silver	P11026I-LCS	0.5	0.55	110		85 - 115	
Silver	P0011026-01-MS	0.5	0.529	106		75 - 125	
Silver	P0011026-01-MSD	0.5	0.541	108		75 - 125	2.2
Sodium	P11026I-LCS	10	11.5	115		85 - 115	
Sodium	P0011026-01-MS	10	636	-340	C	75 - 125	
Sodium	P0011026-01-MSD	10	637	-330	C	75 - 125	-3.
Zinc	P11026I-LCS	0.5	0.556	111		85 - 115	
Zinc	P0011026-01-MS	0.5	0.554	111		75 - 125	
Zinc	P0011026-01-MSD	0.5	0.566	113		75 - 125	2.1

ND - Not Detected

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EL PASO NATURAL GAS

P0011025

Due: 11/13/00 Las Vegas read

CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT NUMBER	PROJECT NAME	SAMPLERS: (Signature)	DATE:
	JAL #1		11/2/00

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: CATIONS ANIONS	SEE ATTACHED	BTEX	TDS specified	Metals	Heavy Metals	CONTRACT LABORATORY
01	11/2/00	1245	H2O	MOO-0233	5		X	X	X	X	X	X	
02	11/2/00	1515	H2O	MOO-0235	5		X	X	X	X	X	X	

REMARKS: * BTEX 8260 per Linda

Custody Seal Intact: Y N None Temp: 1°

Condition when received: Poor Good

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	11/3/00 0700				
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

White - *Testing Laboratory* Canary - *EPNG Lab* Pink - *Field Sampler*

FM-08-0566 (Rev. 4-98)

NEL LABORATORIES
Reno • Las Vegas • Boise
Phoenix • Sacramento

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4 NEL ORDER ID: P0011026
PROJECT NUMBER: NA

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 11/6/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

Hr - Sample was received beyond holding time for this parameter.

Some QA results have been flagged as follows:

C - Sample concentration is a least 5 times greater than spike contribution. Spike recovery criteria do not apply.

Stan Van Wageren
Laboratory Manager

11/15/00
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	MOO-0237
PROJECT ID:	JAL #4	DATE SAMPLED:	11/3/00
OJECT #:	NA	NEL SAMPLE ID:	P0011026-01
TEST:	Metals		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Barium	0.14	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Boron	0.57	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Calcium	500	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Chromium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Copper	0.0062	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Iron	1.4	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Lead	ND	0.05 mg/L	1	EPA 6010	11/7/00	11/8/00
Magnesium	160	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Manganese	0.43	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/8/00	11/8/00
Potassium	18	2. mg/L	1	EPA 6010	11/7/00	11/8/00
Selenium	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Silica	32	1. mg/L	1	SM 4500Si-D	NA	11/7/00
Silver	ND	0.02 mg/L	1	EPA 6010	11/7/00	11/8/00
Sodium	670	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
'c	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00

..F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA
CLIENT ID: **MOO-0238**
DATE SAMPLED: 11/3/00
NEL SAMPLE ID: P0011026-02

TEST: **Metals**
MATRIX: Aqueous
ANALYST: FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Barium	0.13	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Boron	0.57	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Calcium	490	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Chromium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Copper	0.0073	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Iron	1.4	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Lead	ND	0.05 mg/L	1	EPA 6010	11/7/00	11/8/00
Magnesium	150	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Manganese	0.42	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/8/00	11/8/00
Potassium	18	2. mg/L	1	EPA 6010	11/7/00	11/8/00
Selenium	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Silica	31	1. mg/L	1	SM 4500Si-D	NA	11/7/00
Silver	ND	0.02 mg/L	1	EPA 6010	11/7/00	11/8/00
Sodium	630	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
c	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00

.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
CLIENT ID: MOO-0240
DATE SAMPLED: 11/3/00
NEL SAMPLE ID: P0011026-03

TEST: **Metals**
MATRIX: Aqueous
ANALYST: FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Barium	0.14	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Boron	0.29	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Calcium	200	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Chromium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Copper	0.0059	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Iron	1.9	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Lead	ND	0.05 mg/L	1	EPA 6010	11/7/00	11/8/00
Magnesium	71	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Manganese	0.053	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/8/00	11/8/00
Potassium	16	2. mg/L	1	EPA 6010	11/7/00	11/8/00
Selenium	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Silica	29	1. mg/L	1	SM 4500Si-D	NA	11/7/00
Silver	ND	0.02 mg/L	1	EPA 6010	11/7/00	11/8/00
Sodium	280	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
[illegible]	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00

D. F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
)JECT #:	NA	NEL SAMPLE ID:	001107SI-BLK

TEST: **Metals**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	NA	11/7/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	L011051HG-BLK
TEST:	**Metals**		

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/8/00	11/8/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: P11026I-BLK

TEST: **Metals**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Barium	ND	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Boron	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Calcium	ND	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Chromium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Copper	ND	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Iron	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Lead	ND	0.05 mg/L	1	EPA 6010	11/7/00	11/8/00
Magnesium	ND	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Manganese	ND	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Potassium	ND	2. mg/L	1	EPA 6010	11/7/00	11/8/00
Selenium	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Silver	ND	0.02 mg/L	1	EPA 6010	11/7/00	11/8/00
Sodium	ND	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Zinc	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00

D. F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA

CLIENT ID: **MOO-0237**
DATE SAMPLED: 11/3/00
NEL SAMPLE ID: P0011026-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	500			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity, Total as CaCO3	500		25.	1	SM 2320 B	mg/L	11/7/00
Bromide	ND		20.	100	EPA 300.0	mg/L	11/11/00
Chloride	3000		100.	1000	EPA 300.0	mg/L	11/11/00
Fluoride	0.68		0.4	1	SM 4500-F C	mg/L	11/9/00
Hardness, Total (as CaCO3)	1900		2.	1	EPA 200.7	mg/L	11/8/00
Nitrate/Nitrite as N, Total	ND		0.05	1	SM 4500-NO3 F	mg/L-N	11/13/00
pH	6.8	Hr	2.	1	EPA 150.1	pH Units	11/6/00
pH Temperature	19.0		1.	1	EPA 150.1	°C	11/6/00
Specific Conductance	7630		1.	1	SM 2510 B	µS/cm	11/9/00
Sulfate	230		10.	100	EPA 300.0	mg/L	11/11/00
Total Dissolved Solids	5860		60.	4	SM 2540 C	mg/L	11/9/00

L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **MOO-0238**
DATE SAMPLED: 11/3/00
NEL SAMPLE ID: P0011026-02

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	510			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity, Total as CaCO3	510		25.	1	SM 2320 B	mg/L	11/7/00
Bromide	ND		20.	100	EPA 300.0	mg/L	11/11/00
Chloride	2900		100.	1000	EPA 300.0	mg/L	11/9/00
Fluoride	0.66		0.4	1	SM 4500-F C	mg/L	11/9/00
Hardness, Total (as CaCO3)	1900		2.	1	EPA 200.7	mg/L	11/8/00
Nitrate/Nitrite as N, Total	ND		0.05	1	SM 4500-NO3 F	mg/L-N	11/13/00
pH	6.8	Hr	2.	1	EPA 150.1	pH Units	11/6/00
pH Temperature	19.1		1.	1	EPA 150.1	°C	11/6/00
Specific Conductance	7620		1.	1	SM 2510 B	µS/cm	11/9/00
Sulfate	260		10.	100	EPA 300.0	mg/L	11/11/00
Total Dissolved Solids	11200		60.	4	SM 2540 C	mg/L	11/13/00

R. L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA

CLIENT ID: **MOO-0240**
DATE SAMPLED: 11/3/00
NEL SAMPLE ID: P0011026-03

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	140			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity, Total as CaCO3	140		25.	1	SM 2320 B	mg/L	11/7/00
Bromide	ND		20.	100	EPA 300.0	mg/L	11/11/00
Chloride	890		50.	500	EPA 300.0	mg/L	11/9/00
Fluoride	1.1		0.4	1	SM 4500-F C	mg/L	11/9/00
Hardness, Total (as CaCO3)	800		2.	1	EPA 200.7	mg/L	11/8/00
Nitrate/Nitrite as N, Total	0.30		0.05	1	SM 4500-NO3 F	mg/L-N	11/13/00
pH	7.5	Hr	2.	1	EPA 150.1	pH Units	11/6/00
pH Temperature	19.2		1.	1	EPA 150.1	°C	11/6/00
Specific Conductance	2520		1.	1	SM 2510 B	µS/cm	11/9/00
Sulfate	130		10.	100	EPA 300.0	mg/L	11/11/00
Total Dissolved Solids	1780		30.	2	SM 2540 C	mg/L	11/9/00

..L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	001109F-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	11/9/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	001109IC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	11/9/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
)JECT #:	NA	NEL SAMPLE ID:	001109TDS-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	11/9/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	001111IC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	11/11/00
Chloride	ND	0.1	1	EPA 300.0	mg/L	11/11/00
Sulfate	ND	0.1	1	EPA 300.0	mg/L	11/11/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	001113NO2NO3B-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Nitrate/Nitrite as N, Total	ND	0.05	1	SM 4500-NO3 F	mg/L-N	11/13/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	001113TDS-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	11/13/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0237**
PROJECT ID:	JAL #4	DATE SAMPLED:	11/3/00
OJECT #:	NA	NEL SAMPLE ID:	P0011026-01

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	SJO - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/9/00
DILUTION:	1	ANALYZED:	11/9/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	96	86 - 115
Toluene-d8	98	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0238**
PROJECT ID:	JAL #4	DATE SAMPLED:	11/3/00
OJECT #:	NA	NEL SAMPLE ID:	P0011026-02

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	SJO - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/9/00
DILUTION:	1	ANALYZED:	11/9/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	98	86 - 115
Toluene-d8	98	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0240**
PROJECT ID:	JAL #4	DATE SAMPLED:	11/3/00
OJECT #:	NA	NEL SAMPLE ID:	P0011026-03

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	SJO - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/9/00
DILUTION:	1	ANALYZED:	11/9/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	100	86 - 115
Toluene-d8	99	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	001109AQ60BX_2A-BLK
TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	SJO - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/9/00
		ANALYZED:	11/9/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	97	86 - 115
Toluene-d8	97	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
7.00 Buffer	001106PH-LCS	7	7	100	99 - 101	
7.00 Buffer	001106PH-LCSD	7	7	100	99 - 101	0.

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Alkalinity, Total	001107ALK-LCS	125	125.42	100	90 - 110	
Alkalinity, Total	001107ALK-LCSD	125	123.94	99	90 - 110	1.2

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Benzene	001109AQ60BX_2A-LCS	50	49.31	99	80 - 120	
Benzene	P0011026-01-MS	50	50.19	100	76 - 127	
Benzene	P0011026-01-MSD	50	50.23	100	76 - 127	0.1
Toluene	001109AQ60BX_2A-LCS	50	49.54	99	80 - 120	
Toluene	P0011026-01-MS	50	49.54	99	76 - 125	
Toluene	P0011026-01-MSD	50	49.45	99	76 - 125	0.2
Ethylbenzene	001109AQ60BX_2A-LCS	50	49.66	99	80 - 120	
Ethylbenzene	P0011026-01-MS	50	51.49	103	70 - 130	
Ethylbenzene	P0011026-01-MSD	50	50.57	101	70 - 130	1.8
Total Xylenes	001109AQ60BX_2A-LCS	150	157.45	105	80 - 120	
Total Xylenes	P0011026-01-MS	150	156.17	104	70 - 130	
Total Xylenes	P0011026-01-MSD	150	155.76	104	70 - 130	0.3

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Specific Conductance	001109CONDA-LCS	1412	1410	100	95 - 105	

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA
..ST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Fluoride	001109F-LCS	2	2	100	84 - 109	
Fluoride	001109F-LCSD	2	1.996	100	84 - 109	0.2
Fluoride	P0011022-01-MS	1	1.1	110	71 - 126	
Fluoride	P0011022-01-MSD	1	1.2	120	71 - 126	8.7

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA
.EST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	001109IC-LCS	100	97	97	90 - 110	
Chloride	001109IC-LCSD	100	98	98	90 - 110	1.

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA
..ST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	001109TDS-LCS	1000	996	100	94 - 102	

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA
.ST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Chloride	001111IC-LCS	100	99	99	90 - 110	
Chloride	001111IC-LCSD	100	99	99	90 - 110	0.
Bromide	001111IC-LCS	100	100	100	90 - 110	
Bromide	001111IC-LCSD	100	100	100	90 - 110	0.
Sulfate	001111IC-LCS	100	97	97	90 - 110	
Sulfate	001111IC-LCSD	100	97	97	90 - 110	0.

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Total Dissolved Solids	001113TDS-LCS	1000	978	98	94 - 102	

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA
TEST: **Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Mercury	L011051HG-LCS	0.005	0.00503	101	85 - 115	
Mercury	L0011051-08-MS	0.005	0.00462	92	70 - 130	
Mercury	L0011051-08-MSD	0.005	0.0041	82	70 - 130	11.9

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA
EST: Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery		Acceptable Range	RPD
Arsenic	P11026I-LCS	0.5	0.509	102		85 - 115	
Arsenic	P0011026-01-MS	0.5	0.51	102		75 - 125	
Arsenic	P0011026-01-MSD	0.5	0.52	104		75 - 125	1.9
Barium	P11026I-LCS	1	1.07	107		85 - 115	
Barium	P0011026-01-MS	1	1.1	96		75 - 125	
Barium	P0011026-01-MSD	1	1.12	98		75 - 125	2.1
Boron	P11026I-LCS	1	1.08	108		85 - 115	
Boron	P0011026-01-MS	1	1.53	96		75 - 125	
Boron	P0011026-01-MSD	1	1.6	103		75 - 125	7.
Cadmium	P11026I-LCS	0.2	0.217	109		85 - 115	
Cadmium	P0011026-01-MS	0.2	0.213	107		75 - 125	
Cadmium	P0011026-01-MSD	0.2	0.219	110		75 - 125	2.8
Calcium	P11026I-LCS	10	10.9	109		85 - 115	
Calcium	P0011026-01-MS	10	454	-460	C	75 - 125	
Calcium	P0011026-01-MSD	10	503	30	C	75 - 125	-227.9
Chromium	P11026I-LCS	0.5	0.539	108		85 - 115	
romium	P0011026-01-MS	0.5	0.507	101		75 - 125	
Chromium	P0011026-01-MSD	0.5	0.517	103		75 - 125	2.
Copper	P11026I-LCS	0.5	0.548	110		85 - 115	
Copper	P0011026-01-MS	0.5	0.526	104		75 - 125	
Copper	P0011026-01-MSD	0.5	0.534	106		75 - 125	1.5
Iron	P11026I-LCS	1	1	100		85 - 115	
Iron	P0011026-01-MS	1	2.4	100		75 - 125	
Iron	P0011026-01-MSD	1	2.35	95		75 - 125	5.1
Lead	P11026I-LCS	1	1.07	107		85 - 115	
Lead	P0011026-01-MS	1	1.01	101		75 - 125	
Lead	P0011026-01-MSD	1	1.04	104		75 - 125	2.9
Magnesium	P11026I-LCS	10	10.5	105		85 - 115	
Magnesium	P0011026-01-MS	10	151	-90	C	75 - 125	
Magnesium	P0011026-01-MSD	10	166	60	C	75 - 125	-1000.
Manganese	P11026I-LCS	0.5	0.549	110		85 - 115	
Manganese	P0011026-01-MS	0.5	0.884	91		75 - 125	
Manganese	P0011026-01-MSD	0.5	0.93	100		75 - 125	9.6
Potassium	P11026I-LCS	10	11.4	114		85 - 115	
Potassium	P0011026-01-MS	10	25.9	79		75 - 125	
Potassium	P0011026-01-MSD	10	27.5	95		75 - 125	18.4
lenium	P11026I-LCS	0.5	0.513	103		85 - 115	
lenium	P0011026-01-MS	0.5	0.529	106		75 - 125	

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA
_ST: Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery		Acceptable Range	RPD
Selenium	P0011026-01-MSD	0.1	0.539	108		75 - 125	1.9
Silver	P11026I-LCS	0.5	0.55	110		85 - 115	
Silver	P0011026-01-MS	0.5	0.529	106		75 - 125	
Silver	P0011026-01-MSD	0.5	0.541	108		75 - 125	2.2
Sodium	P11026I-LCS	10	11.5	115		85 - 115	
Sodium	P0011026-01-MS	10	636	-340	C	75 - 125	
Sodium	P0011026-01-MSD	10	637	-330	C	75 - 125	-3.
Zinc	P11026I-LCS	0.5	0.556	111		85 - 115	
Zinc	P0011026-01-MS	0.5	0.554	111		75 - 125	
Zinc	P0011026-01-MSD	0.5	0.566	113		75 - 125	2.1

ND - Not Detected

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EL PASO NATURAL GAS

Due: 11/13/00

CHAIN OF CUSTODY RECORD

Las Vegas Lead

P0011026

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PROJECT NUMBER	PROJECT NAME	SAMPLERS: (Signature)	DATE:
	Jgl #4		11/3/00

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: CATIONS + ANIONS	SAR ALKALINITY	BTEX*	TDS SPECIAL	METALS	HEAVY METALS	REMARKS
01	11/3/00	1145	H2O	MW-0237	5		X	X	X	X	X	X	* BTEX 8260 per unda
02	11/3/00	1145	H2O	MW-0238	5		X	X	X	X	X	X	
03	11/3/00	1320	H2O	MW-0240	5		X	X	X	X	X	X	

Custody Seal Intact: Y N None Temp: 4°C

Condition when received: Poor Good

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	11/3/00 1500				
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

White - *Testing Laboratory* Canary - *EPNG Lab* Pink - *Field Sampler*

FM-08 0566 (Rev 4-98)

NEL LABORATORIES
Reno • Las Vegas • Boise
Phoenix • Sacramento

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

T: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
Darrell Campbell

CT NAME: JAL #4 NEL ORDER ID: P0011032
CT NUMBER: NA

d are the analytical results for samples in support of the above referenced project.

s submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in ndition, under chain of custody on 11/7/00.

you have any questions or comments, please feel free to contact our Client Services department at (602) 99.

)A results have been flagged as follows:

Sample concentration is a least 5 times greater than spike contribution. Spike recovery criteria do not apply.
The batch MS and/or MSD were outside acceptance limits. The batch LCS was acceptable.

an Wagenen
tory Manager

11/17/00
Date

FICATIONS:

	Reno	Las Vegas	S. California
a	AZ0520	AZ0518	AZ0605
nia	1707	2002	2264
ny Corps neers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

aso Natural Gas Company
#4

CLIENT ID: **M00-0242**
DATE SAMPLED: 11/6/00
NEL SAMPLE ID: P0011032-01

ACID #3

als
eous

ANALYST: FKA - Division

RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
ND	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
0.061	0.005 mg/L	1	EPA 6010	11/8/00	11/9/00
0.26	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.01 mg/L	1	EPA 6010	11/8/00	11/9/00
55	0.5 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.01 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.005 mg/L	1	EPA 6010	11/8/00	11/9/00
0.34	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.05 mg/L	1	EPA 6010	11/8/00	11/9/00
19	0.5 mg/L	1	EPA 6010	11/8/00	11/9/00
0.024	0.005 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.0002 mg/L	1	EPA 7470A	11/9/00	11/9/00
11	2. mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
29	0.05 mg/L	1	EPA 6020	11/13/00	11/13/00
ND	0.02 mg/L	1	EPA 6010	11/8/00	11/9/00
210	0.5 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00

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'aso Natural Gas Company
. #4

CLIENT ID: **M00-0243**
DATE SAMPLED: 11/6/00
NEL SAMPLE ID: P0011032-02

ACW# 10

:als
ıeous

ANALYST: FKA - Division

RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
ND	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
0.15	0.005 mg/L	1	EPA 6010	11/8/00	11/9/00
0.37	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.01 mg/L	1	EPA 6010	11/8/00	11/9/00
470	0.5 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.01 mg/L	1	EPA 6010	11/8/00	11/9/00
0.0061	0.005 mg/L	1	EPA 6010	11/8/00	11/9/00
0.27	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.05 mg/L	1	EPA 6010	11/8/00	11/9/00
140	0.5 mg/L	1	EPA 6010	11/8/00	11/9/00
0.026	0.005 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.0002 mg/L	1	EPA 7470A	11/9/00	11/9/00
16	2. mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
30	0.05 mg/L	1	EPA 6020	11/13/00	11/13/00
ND	0.02 mg/L	1	EPA 6010	11/8/00	11/9/00
330	0.5 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00

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'aso Natural Gas Company
#4

CLIENT ID: **M00-0244**
DATE SAMPLED: 11/6/00
NEL SAMPLE ID: P0011032-03

EMP#3

:als
:eous

ANALYST: FKA - Division

RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
ND	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
0.14	0.005 mg/L	1	EPA 6010	11/8/00	11/9/00
0.28	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.01 mg/L	1	EPA 6010	11/8/00	11/9/00
72	0.5 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.01 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.005 mg/L	1	EPA 6010	11/8/00	11/9/00
1.2	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.05 mg/L	1	EPA 6010	11/8/00	11/9/00
27	0.5 mg/L	1	EPA 6010	11/8/00	11/9/00
0.15	0.005 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.0002 mg/L	1	EPA 7470A	11/9/00	11/9/00
40	2. mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
23	0.05 mg/L	1	EPA 6020	11/13/00	11/13/00
ND	0.02 mg/L	1	EPA 6010	11/8/00	11/9/00
600	0.5 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00

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'aso Natural Gas Company
#4

CLIENT ID: **M00-0245**
DATE SAMPLED: 11/6/00
NEL SAMPLE ID: P0011032-04

tals
ıeous

ANALYST: FKA - Division

RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
ND	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.005 mg/L	1	EPA 6010	11/8/00	11/9/00
0.13	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.01 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.5 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.01 mg/L	1	EPA 6010	11/8/00	11/9/00
0.092	0.005 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.05 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.5 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.005 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.0002 mg/L	1	EPA 7470A	11/9/00	11/9/00
ND	2. mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
1.3	0.05 mg/L	1	EPA 6020	11/13/00	11/13/00
ND	0.02 mg/L	1	EPA 6010	11/8/00	11/9/00
2.4	0.5 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00

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'aso Natural Gas Company
. #4

CLIENT ID: **M00-0246**
DATE SAMPLED: 11/6/00
NEL SAMPLE ID: P0011032-05

tals
ıeous

ANALYST: FKA - Division

RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
ND	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.005 mg/L	1	EPA 6010	11/8/00	11/9/00
0.12	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.01 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.5 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.01 mg/L	1	EPA 6010	11/8/00	11/9/00
0.10	0.005 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.05 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.5 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.005 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.0002 mg/L	1	EPA 7470A	11/9/00	11/9/00
ND	2. mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
1.2	0.05 mg/L	1	EPA 6020	11/13/00	11/13/00
ND	0.02 mg/L	1	EPA 6010	11/8/00	11/9/00
1.5	0.5 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00

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. #4

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 001113SI-BLK

tals

RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
ND	0.05 mg/L	1	EPA 6020	11/13/00	11/13/00

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#4

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: P011032HG-BLK

als

RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
ND	0.0002 mg/L	1	EPA 7470A	11/9/00	11/9/00

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_ #4

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: P011032I-BLK

tals

RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
ND	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.005 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.01 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.5 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.01 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.005 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.05 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.5 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.005 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	2. mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.02 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.5 mg/L	1	EPA 6010	11/8/00	11/9/00
ND	0.1 mg/L	1	EPA 6010	11/8/00	11/9/00

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_ #4

CLIENT ID: **M00-0242**
DATE SAMPLED: 11/6/00
NEL SAMPLE ID: P0011032-01

ACD #13

rganic Non-Metals
ıeous

IETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
ate as CaCO3	170		1	SM 2320 B	mg/L	11/7/00
e as CaCO3	ND		1	SM 2320 B	mg/L	11/7/00
le as CaCO3	ND		1	SM 2320 B	mg/L	11/7/00
aCO3	170	25.	1	SM 2320 B	mg/L	11/7/00
	ND	2.	10	EPA 300.0	mg/L	11/7/00
	360	50.	500	EPA 300.0	mg/L	11/13/00
	1.4	0.4	1	SM 4500-F C	mg/L	11/9/00
aCO3)	220	2.	1	EPA 6010	mg/L	11/9/00
	1.0	1.	10	EPA 300.0	mg/L-N	11/7/00
	7.7	2.	1	EPA 150.1	pH Units	11/6/00
	16.7	1.	1	EPA 150.1	°C	11/6/00
	1330	1.	1	SM 2510 B	µS/cm	11/10/00
	110	2.	20	EPA 300.0	mg/L	11/13/00
ls	947	15.	1	SM 2540 C	mg/L	11/10/00

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aso Natural Gas Company
#4

CLIENT ID: **M00-0243**
DATE SAMPLED: 11/6/00
NEL SAMPLE ID: P0011032-02

HCWD#10

rganic Non-Metals
ieous

ETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
ıte as CaCO3	180		1	SM 2320 B	mg/L	11/7/00
: as CaCO3	ND		1	SM 2320 B	mg/L	11/7/00
e as CaCO3	ND		1	SM 2320 B	mg/L	11/7/00
ıCO3	180	25.	1	SM 2320 B	mg/L	11/7/00
	ND	2.	10	EPA 300.0	mg/L	11/7/00
	980	100.	1000	EPA 300.0	mg/L	11/14/00
	1.0	0.4	1	SM 4500-F C	mg/L	11/9/00
ıCO3)	1800	2.	1	EPA 6010	mg/L	11/9/00
	ND	1.	10	EPA 300.0	mg/L-N	11/7/00
	7.1	2.	1	EPA 150.1	pH Units	11/6/00
	16.4	.1.	1	EPA 150.1	°C	11/6/00
	3100	1.	1	SM 2510 B	µS/cm	11/10/00
	220	2.5	25	EPA 300.0	mg/L	11/13/00
s	2840	30.	2	SM 2540 C	mg/L	11/10/00

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'aso Natural Gas Company
. #4

CLIENT ID: **M00-0244**
DATE SAMPLED: 11/6/00
NEL SAMPLE ID: P0011032-03

EMP #3 Apted

rganic Non-Metals
ıeous

IETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
ate as CaCO3	150		1	SM 2320 B	mg/L	11/7/00
e as CaCO3	ND		1	SM 2320 B	mg/L	11/7/00
ie as CaCO3	ND		1	SM 2320 B	mg/L	11/7/00
aCO3	150	25.	1	SM 2320 B	mg/L	11/7/00
	ND	*4.*	*20*	*EPA 300.0*	*mg/L*	*11/7/00*
	2100	200.	2000	EPA 300.0	mg/L	11/14/00
	1.9	0.4	1	SM 4500-F C	mg/L	11/9/00
'aCO3)	290	2.	1	EPA 6010	mg/L	11/9/00
	ND	2.	20	EPA 300.0	mg/L-N	11/7/00
	8.1	2.	1	EPA 150.1	pH Units	11/6/00
	16.7	1.	1	EPA 150.1	°C	11/6/00
:	4400	1.	1	SM 2510 B	µS/cm	11/10/00
	150	2.5	25	EPA 300.0	mg/L	11/13/00
ls	3500	60.	4	SM 2540 C	mg/L	11/10/00

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'aso Natural Gas Company
_ #4

CLIENT ID: **M00-0245**
DATE SAMPLED: 11/6/00
NEL SAMPLE ID: P0011032-04

Baile after

rganic Non-Metals
ıeous

IETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
ate as CaCO3	ND		1	SM 2320 B	mg/L	11/7/00
e as CaCO3	ND		1	SM 2320 B	mg/L	11/7/00
ie as CaCO3	ND		1	SM 2320 B	mg/L	11/7/00
aCO3	ND	25.	1	SM 2320 B	mg/L	11/7/00
	ND	0.2	1	EPA 300.0	mg/L	11/8/00
	3.3	0.1	1	EPA 300.0	mg/L	11/8/00
	ND	0.4	1	SM 4500-F C	mg/L	11/9/00
aCO3)	ND	2.	1	EPA 6010	mg/L	11/9/00
	ND	0.1	1	EPA 300.0	mg/L-N	11/8/00
	5.3	2.	1	EPA 150.1	pH Units	11/6/00
	16.9	1.	1	EPA 150.1	°C	11/6/00
	13.40	1.	1	SM 2510 B	µS/cm	11/15/00
	ND	0.1	1	EPA 300.0	mg/L	11/8/00
is	55	15.	1	SM 2540 C	mg/L	11/10/00

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'aso Natural Gas Company
. #4

CLIENT ID: **M00-0246**
DATE SAMPLED: 11/6/00
NEL SAMPLE ID: P0011032-05

rganic Non-Metals
ıeous

ETER	RESULT	R. L.	D. F.	METHOD	UNITS	ANALYZED
ıte as CaCO3	ND		1	SM 2320 B	mg/L	11/7/00
ɜ as CaCO3	ND		1	SM 2320 B	mg/L	11/7/00
e as CaCO3	ND		1	SM 2320 B	mg/L	11/7/00
ıCO3	ND	25.	1	SM 2320 B	mg/L	11/7/00
	ND	0.2	1	EPA 300.0	mg/L	11/8/00
	3.3	0.1	1	EPA 300.0	mg/L	11/8/00
	ND	0.4	1	SM 4500-F C	mg/L	11/9/00
ıCO3)	ND	2.	1	EPA 6010	mg/L	11/9/00
	ND	0.1	1	EPA 300.0	mg/L-N	11/8/00
	5.4	2.	1	EPA 150.1	pH Units	11/6/00
	17.2	1.	1	EPA 150.1	°C	11/6/00
	11.0	1.	1	SM 2510 B	µS/cm	11/10/00
	ND	0.1	1	EPA 300.0	mg/L	11/14/00
s	ND	15.	1	SM 2540 C	mg/L	11/10/00

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'aso Natural Gas Company
_ #4

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 001107IC-BLK

ı-Metals

RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
ND	0.2	1	EPA 300.0	mg/L	11/7/00
ND	0.1	1	EPA 300.0	mg/L-N	11/7/00
ND	0.1	1	EPA 300.0	mg/L-N	11/7/00

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'aso Natural Gas Company
. #4

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 001108IC-BLK

ı-Metals

RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
ND	0.2	1	EPA 300.0	mg/L	11/8/00
ND	0.1	1	EPA 300.0	mg/L	11/8/00
ND	0.1	1	EPA 300.0	mg/L-N	11/8/00
ND	0.1	1	EPA 300.0	mg/L-N	11/8/00
ND	0.1	1	EPA 300.0	mg/L	11/8/00

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. #4

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 001110TDS-BLK

ı-Metals

RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
ND	15	1	SM 2540 C	mg/L	11/10/00

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. #4

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 001113IC-BLK

ı-Metals

RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
ND	0.1	1	EPA 300.0	mg/L	11/13/00
ND	0.1	1	EPA 300.0	mg/L	11/13/00

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'aso Natural Gas Company
. #4

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 001114IC-BLK

ı-Metals

RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
ND	0.1	1	EPA 300.0	mg/L	11/14/00
ND	0.5	1	EPA 300.0	mg/L	11/14/00

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aso Natural Gas Company
. #4

CLIENT ID: **M00-0242**
DATE SAMPLED: 11/6/00
NEL SAMPLE ID: P0011032-01

ACW#13

atile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996

. 8260B
eous

ANALYST: SJO - Las Vegas Division
EXTRACTED: 11/9/00
ANALYZED: 11/9/00

	Result	Reporting Limit
	ND	2. µg/L
	ND	2. µg/L
	ND	2. µg/L
	ND	4. µg/L

DATA:

	% Recovery	Acceptable Range
ıe	100	86 - 115
	100	88 - 110

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_ABORATORIES

'aso Natural Gas Company
_ #4

CLIENT ID: **M00-0243**
DATE SAMPLED: 11/6/00
NEL SAMPLE ID: P0011032-02

PCW #10

atile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996

\ 8260B
ıeous

ANALYST: SJO - Las Vegas Division
EXTRACTED: 11/9/00
ANALYZED: 11/9/00

	Result	Reporting Limit
	ND	2. µg/L
	ND	2. µg/L
	ND	2. µg/L
	ND	4. µg/L

. *DATA:*

	% Recovery	Acceptable Range
ıe	101	86 - 115
	100	88 - 110

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_ABORATORIES

'aso Natural Gas Company
_ #4

CLIENT ID: **M00-0244**
DATE SAMPLED: 11/6/00
NEL SAMPLE ID: P0011032-03

EMB #3 AP

atile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996

\ 8260B
ıeous

ANALYST: SJO - Las Vegas Division
EXTRACTED: 11/9/00
ANALYZED: 11/9/00

	Result	Reporting Limit
	ND	2. µg/L
	ND	2. µg/L
	ND	2. µg/L
	ND	4. µg/L

. DATA:

	% Recovery	Acceptable Range
ıe	101	86 - 115
	99	88 - 110

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LABORATORIES

'aso Natural Gas Company
. #4

CLIENT ID: **M00-0245**
DATE SAMPLED: 11/6/00
NEL SAMPLE ID: P0011032-04

atile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996

\ 8260B
ıeous

ANALYST: SJO - Las Vegas Division
EXTRACTED: 11/9/00
ANALYZED: 11/9/00

	Result	Reporting Limit
	ND	2. µg/L
	ND	2. µg/L
	ND	2. µg/L
	ND	4. µg/L

. *DATA:*

	% Recovery	Acceptable Range
ne	104	86 - 115
	100	88 - 110

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_ABORATORIES

'aso Natural Gas Company	CLIENT ID:	M00-0246
. #4	DATE SAMPLED:	11/6/00
	NEL SAMPLE ID:	P0011032-05

FB

atile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996

\ 8260B	ANALYST:	SJO - Las Vegas Division
ıeous	EXTRACTED:	11/9/00
	ANALYZED:	11/9/00

	Result	Reporting Limit
	ND	2. µg/L
	ND	2. µg/L
	ND	2. µg/L
	ND	4. µg/L

. *DATA:*

	% Recovery	Acceptable Range
ıe	103	86 - 115
	100	88 - 110

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'aso Natural Gas Company	CLIENT ID:	**Method Blank**
#4	DATE SAMPLED:	NA
	NEL SAMPLE ID:	001109AQ60BX_2B-BLK

ıtile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996

. 8260B	ANALYST:	SJO - Las Vegas Division
eous	EXTRACTED:	11/9/00
	ANALYZED:	11/9/00

	Result	Reporting Limit
	ND	5. µg/L
	ND	5. µg/L
	ND	5. µg/L
	ND	10. µg/L

DATA:

	% Recovery	Acceptable Range
ıe	102	86 - 115
	99	88 - 110

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:ganic Non-Metals
:eous

NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
001106PH2-LCS	7	7	100	99 - 101	
001106PH2-LCSD	7	7	100	99 - 101	0.

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'aso Natural Gas Company
_ #4

rganic Non-Metals
ıeous

NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
001107IC-LCS	100	98	98	90 - 110	
001107IC-LCSD	100	94	94	90 - 110	4.2
001107IC-LCS	100	94	94	90 - 110	
001107IC-LCSD	100	94	94	90 - 110	0.
001107IC-LCS	100	94	94	90 - 110	
001107IC-LCSD	100	94	94	90 - 110	0.
L0011071-04-MS	500	452	90	80 - 120	

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Paso Natural Gas Company
#4

rganic Non-Metals
ieous

NEL Sample ID	Spike Amount	Spike Result	Percent Recovery		Acceptable Range	RPD
001108IC-LCS	100	102	102		90 - 110	
001108IC-LCSD	100	101	101		90 - 110	1.
P0011032-05-MS	25	116	88		80 - 120	
001108IC-LCS	100	103	103		90 - 110	
001108IC-LCSD	100	102	102		90 - 110	1.
P0011032-05-MS	25	23.9	96		80 - 120	
001108IC-LCS	100	98	98		90 - 110	
001108IC-LCSD	100	95	95		90 - 110	3.1
P0011032-05-MS	25	31	124	J1	80 - 120	
001108IC-LCS	100	100	100		90 - 110	
001108IC-LCSD	100	98	98		90 - 110	2.
P0011032-05-MS	1	0.869	87		80 - 120	
001108IC-LCS	100	94	94		90 - 110	
001108IC-LCSD	100	95	95		90 - 110	1.1
P0011032-05-MS	1	0.93	93		80 - 120	

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atile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996
ieous

NEL Sample ID	Spike Amount	Spike Result	Percent Recovery		Acceptable Range	RPD
001109AQ60BX_2B-LCS	50	49.29	99		80 - 120	
P0011025-02-MS	50	39.74	79		76 - 127	
P0011025-02-MSD	50	40.84	82		76 - 127	2.7
001109AQ60BX_2B-LCS	50	48.61	97		80 - 120	
P0011025-02-MS	50	37.13	74	J1	76 - 125	
P0011025-02-MSD	50	37.47	75	J1	76 - 125	0.9
001109AQ60BX_2B-LCS	50	51.47	103		80 - 120	
P0011025-02-MS	50	37.65	75		70 - 130	
P0011025-02-MSD	50	35.83	72		70 - 130	5.
001109AQ60BX_2B-LCS	150	157.61	105		80 - 120	
P0011025-02-MS	150	117.06	78		70 - 130	
P0011025-02-MSD	150	112.11	75		70 - 130	4.3

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ganic Non-Metals
eous

NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
001110COND-LCS	1412	1410	100	95 - 105	

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'aso Natural Gas Company
- #4

rganic Non-Metals
ıeous

	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
ls	001110TDS-LCS	1000	1005	100	94 - 102	

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#4

rganic Non-Metals
ieous

NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
001113IC-LCS	100	105	105	90 - 110	
001113IC-LCSD	100	105	105	90 - 110	0.
001113IC-LCS	100	103	103	90 - 110	
001113IC-LCSD	100	100	100	90 - 110	3.

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'aso Natural Gas Company
#4

'ganic Non-Metals
te Water

NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
001114IC-LCS	100	96	96	90 - 110	
001114IC-LCSD	100	98	98	90 - 110	2.1
B0011004-01-MS	10	20.2	102	80 - 120	
001114IC-LCS	100	96	96	90 - 110	
001114IC-LCSD	100	96	96	90 - 110	0.
B0011004-01-MS	10	39.1	91	80 - 120	

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rganic Non-Metals
ıeous

NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
001115COND-LCS	1412	1410	100	95 - 105	

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Paso Natural Gas Company
#4

tals
ieous

NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
P011032HG-LCS	0.005	0.00511	102	85 - 115	
P0011032-01-MS	0.005	0.00486	97	70 - 130	
P0011032-01-MSD	0.005	0.00471	94	70 - 130	3.1

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NEL Sample ID	Spike Amount	Spike Result	Percent Recovery		Acceptable Range	RPD
P011032I-LCS	0.5	0.509	102		85 - 115	
P0011032-01-MS	0.5	0.557	111		75 - 125	
P0011032-01-MSD	0.5	0.54	108		75 - 125	3.1
P011032I-LCS	1	1.01	101		85 - 115	
P0011032-01-MS	1	1.12	106		75 - 125	
P0011032-01-MSD	1	1.1	104		75 - 125	1.9
P011032I-LCS	1	1.04	104		85 - 115	
P0011032-01-MS	1	1.34	108		75 - 125	
P0011032-01-MSD	1	1.33	107		75 - 125	0.9
P011032I-LCS	0.2	0.212	106		85 - 115	
P0011032-01-MS	0.2	0.226	113		75 - 125	
P0011032-01-MSD	0.2	0.221	111		75 - 125	2.2
P011032I-LCS	10	10.7	107		85 - 115	
P0011032-01-MS	10	69.4	144	C	75 - 125	
P0011032-01-MSD	10	71.5	165	C	75 - 125	13.6
P011032I-LCS	0.5	0.524	105		85 - 115	
P0011032-01-MS	0.5	0.549	110		75 - 125	
P0011032-01-MSD	0.5	0.538	108		75 - 125	2.
P011032I-LCS	0.5	0.516	103		85 - 115	
P0011032-01-MS	0.5	0.544	109		75 - 125	
P0011032-01-MSD	0.5	0.532	106		75 - 125	2.2
P011032I-LCS	1	1.07	107		85 - 115	
P0011032-01-MS	1	1.4	106		75 - 125	
P0011032-01-MSD	1	1.26	92		75 - 125	14.1
P011032I-LCS	1	1.06	106		85 - 115	
P0011032-01-MS	1	1.09	109		75 - 125	
P0011032-01-MSD	1	1.07	107		75 - 125	1.9
P011032I-LCS	10	10.1	101		85 - 115	
P0011032-01-MS	10	30.4	114		75 - 125	
P0011032-01-MSD	10	30.9	119		75 - 125	4.3
P011032I-LCS	0.5	0.529	106		85 - 115	
P0011032-01-MS	0.5	0.579	111		75 - 125	
P0011032-01-MSD	0.5	0.566	108		75 - 125	2.4
P011032I-LCS	10	10.7	107		85 - 115	
P0011032-01-MS	10	21.3	103		75 - 125	
P0011032-01-MSD	10	21.9	109		75 - 125	5.7
P011032I-LCS	0.5	0.5	100		85 - 115	
P0011032-01-MS	0.5	0.559	112		75 - 125	

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: Metals
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery		Acceptable Range	RPD
Selenium	P0011032-01-MSD	0.5	0.541	108		75 - 125	3.3
Silver	P011032I-LCS	0.5	0.523	105		85 - 115	
Silver	P0011032-01-MS	0.5	0.545	109		75 - 125	
Silver	P0011032-01-MSD	0.5	0.531	106		75 - 125	2.6
Sodium	P011032I-LCS	10	10.4	104		85 - 115	
Sodium	P0011032-01-MS	10	220	100		75 - 125	
Sodium	P0011032-01-MSD	10	216	60	C	75 - 125	50.
Zinc	P011032I-LCS	0.5	0.523	105		85 - 115	
Zinc	P0011032-01-MS	0.5	0.567	113		75 - 125	
Zinc	P0011032-01-MSD	0.5	0.56	112		75 - 125	1.2

ND - Not Detected

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	DATE:		MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	Cations + Anions	SEE ATTACHED	BTEX	TDS sp.cond	METALS	HEAVY METALS	REMARKS
01	11/6/00	1055	H2O	MOO-0242	5		X	X	X	X	X	X	btex 8021 or 8260
02	11/6/00	1225	H2O	MOO-0243	5		X	X	X	X	X	X	~~title~~ whichever we have
03	11/6/00	1240	H2O	MOO-0244	5		X	X	X	X	X	X	more capacity for
04	11/6/00	1245	H2O	MOO-0245	5		X	X	X	X	X	X	
05	11/6/00	1250	H2O	MOO-0246	5		X	X	X	X	X	X	

Custody Seal Intact: Y N None Temp: 4°
Condition when received: ~~Poor~~ Good

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	11/6/00 1600	[signature] 11/7			
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

White - *Testing Laboratory* Canary - *EPNG Lab* Pink - *Field Sampler*

FM-08-0566 (Rev. 4-98)

NEL LABORATORIES
Reno • Las Vegas • Boise
Phoenix • Sacramento

Las Vegas Division
4208 Arcata Way, Suite A • Las Vegas, NV 89030
(702) 657-1010 • Fax: (702) 657-1577
1-888-368-3282

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: JAL #4 NEL ORDER ID: P0011027
PROJECT NUMBER: NA

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 11/4/00.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

Hr - Sample was received beyond holding time for this parameter.

Some QA results have been flagged as follows:

C - Sample concentration is a least 5 times greater than spike contribution. Spike recovery criteria do not apply.

Stan Van Wagenen
Laboratory Manager

11/20/00
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
CLIENT ID: MOO-0239
DATE SAMPLED: 11/3/00
NEL SAMPLE ID: P0011027-01

TEST: Metals
MATRIX: Aqueous
ANALYST: FKA - Division

RW-1

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Barium	0.18	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Boron	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Calcium	610	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Chromium	0.012	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Copper	ND	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Iron	0.12	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Lead	ND	0.05 mg/L	1	EPA 6010	11/7/00	11/8/00
Magnesium	190	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Manganese	0.83	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/8/00	11/8/00
Potassium	15	2. mg/L	1	EPA 6010	11/7/00	11/8/00
Selenium	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Silica	39	1. mg/L	1	SM 4500Si-D	NA	11/7/00
Silver	ND	0.02 mg/L	1	EPA 6010	11/7/00	11/8/00
Sodium	680	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
c	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0241**
PROJECT ID:	JAL #4	DATE SAMPLED:	11/3/00
OJECT #:	NA	NEL SAMPLE ID:	P0011027-02
TEST:	**Metals**		
MATRIX:	Aqueous	ANALYST:	FKA - Division

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	0.82	0.5 mg/L	5	EPA 6010	11/7/00	11/8/00
Barium	0.47	0.025 mg/L	5	EPA 6010	11/7/00	11/8/00
Boron	2.4	0.5 mg/L	5	EPA 6010	11/7/00	11/8/00
Cadmium	ND	0.05 mg/L	5	EPA 6010	11/7/00	11/8/00
Calcium	760	2.5 mg/L	5	EPA 6010	11/7/00	11/8/00
Chromium	ND	0.05 mg/L	5	EPA 6010	11/7/00	11/8/00
Copper	ND	0.025 mg/L	5	EPA 6010	11/7/00	11/8/00
Iron	ND	0.5 mg/L	5	EPA 6010	11/7/00	11/8/00
Lead	ND	0.25 mg/L	5	EPA 6010	11/7/00	11/8/00
Magnesium	330	2.5 mg/L	5	EPA 6010	11/7/00	11/8/00
Manganese	2.5	0.025 mg/L	5	EPA 6010	11/7/00	11/8/00
Mercury	0.0029	0.0002 mg/L	1	EPA 7470A	11/8/00	11/8/00
Potassium	100	10. mg/L	5	EPA 6010	11/7/00	11/8/00
Selenium	ND	0.5 mg/L	5	EPA 6010	11/7/00	11/8/00
Silica	19	1. mg/L	1	SM 4500Si-D	NA	11/7/00
Silver	ND	0.1 mg/L	5	EPA 6010	11/7/00	11/8/00
Sodium	22000	50. mg/L	100	EPA 6010	11/7/00	11/8/00
c	ND	0.5 mg/L	5	EPA 6010	11/7/00	11/8/00

F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	001107SI-BLK

TEST: **Metals**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Silica	ND	1. mg/L	1	SM 4500Si-D	NA	11/7/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
)JECT #:	NA	NEL SAMPLE ID:	P011027HG-BLK

TEST: **Metals**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Mercury	ND	0.0002 mg/L	1	EPA 7470A	11/8/00	11/8/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	P11026I-BLK

TEST: **Metals**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Barium	ND	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Boron	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Calcium	ND	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Chromium	ND	0.01 mg/L	1	EPA 6010	11/7/00	11/8/00
Copper	ND	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Iron	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Lead	ND	0.05 mg/L	1	EPA 6010	11/7/00	11/8/00
Magnesium	ND	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Manganese	ND	0.005 mg/L	1	EPA 6010	11/7/00	11/8/00
Potassium	ND	2. mg/L	1	EPA 6010	11/7/00	11/8/00
Selenium	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00
Silver	ND	0.02 mg/L	1	EPA 6010	11/7/00	11/8/00
Sodium	ND	0.5 mg/L	1	EPA 6010	11/7/00	11/8/00
Zinc	ND	0.1 mg/L	1	EPA 6010	11/7/00	11/8/00

D. F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA

CLIENT ID: **MOO-0239**
DATE SAMPLED: 11/3/00
NEL SAMPLE ID: P0011027-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

RW-1

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	470			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Carbonate as CaCO3	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity, Total as CaCO3	470		25.	1	SM 2320 B	mg/L	11/7/00
Bromide	ND		20.	100	EPA 300.0	mg/L	11/11/00
Chloride	2800		100.	1000	EPA 300.0	mg/L	11/9/00
Fluoride	0.44		0.4	1	SM 4500-F C	mg/L	11/9/00
Hardness, Total (as CaCO3)	2300		2.	1	EPA 200.7	mg/L	11/8/00
Nitrate/Nitrite as N, Total	0.11		0.05	1	SM 4500-NO3 F	mg/L-N	11/13/00
pH	6.8	Hr	2.	1	EPA 150.1	pH Units	11/6/00
pH Temperature	19.3		1.	1	EPA 150.1	°C	11/6/00
Specific Conductance	7340		1.	1	SM 2510 B	µS/cm	11/9/00
Sulfate	240		10.	100	EPA 300.0	mg/L	11/11/00
Total Dissolved Solids	5660		60.	4	SM 2540 C	mg/L	11/9/00

R. L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA

CLIENT ID: **MOO-0241**
DATE SAMPLED: 11/3/00
NEL SAMPLE ID: P0011027-02

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		R. L.	D. F.	METHOD	UNITS	ANALYZED
Alkalinity - Bicarbonate as CaCO3	1500			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Carbonate as CaCO3	25			1	SM 2320 B	mg/L	11/7/00
Alkalinity - Hydroxide as CaCO3	ND			1	SM 2320 B	mg/L	11/7/00
Alkalinity, Total as CaCO3	1500		25.	1	SM 2320 B	mg/L	11/7/00
Bromide	ND		200.	1000	EPA 300.0	mg/L	11/11/00
Chloride	32000		1000.	10000	EPA 300.0	mg/L	11/11/00
Fluoride	6.0		0.8	2	SM 4500-F C	mg/L	11/9/00
Hardness, Total (as CaCO3)	3200		10.	5	EPA 200.7	mg/L	11/8/00
Nitrate/Nitrite as N, Total	0.10		0.05	1	SM 4500-NO3 F	mg/L-N	11/13/00
pH	8.3	Hr	2.	1	EPA 150.1	pH Units	11/6/00
pH Temperature	19.3		1.	1	EPA 150.1	°C	11/6/00
Specific Conductance	62000		1.	1	SM 2510 B	µS/cm	11/9/00
Sulfate	790		100.	1000	EPA 300.0	mg/L	11/11/00
Total Dissolved Solids	43900		1500.	100	SM 2540 C	mg/L	11/9/00

L. - Reporting Limit
D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	001109F-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Fluoride	ND	0.4	1	SM 4500-F C	mg/L	11/9/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	001109IC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Chloride	ND	0.1	1	EPA 300.0	mg/L	11/9/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
)JECT #:	NA	NEL SAMPLE ID:	001109TDS-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Total Dissolved Solids	ND	15	1	SM 2540 C	mg/L	11/9/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
)JECT #:	NA	NEL SAMPLE ID:	001111IC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Bromide	ND	0.2	1	EPA 300.0	mg/L	11/11/00
Chloride	ND	0.1	1	EPA 300.0	mg/L	11/11/00
Sulfate	ND	0.1	1	EPA 300.0	mg/L	11/11/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	001113NO2NO3B-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Nitrate/Nitrite as N, Total	ND	0.05	1	SM 4500-NO3 F	mg/L-N	11/13/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0239**
PROJECT ID:	JAL #4	DATE SAMPLED:	11/3/00
PROJECT #:	NA	NEL SAMPLE ID:	P0011027-01

TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/9/00
DILUTION:	1	ANALYZED:	11/9/00

PARAMETER	Result	Reporting Limit
Benzene	ND	5 µg/L
Toluene	ND	5 µg/L
Ethylbenzene	ND	5 µg/L
Total Xylenes	ND	10 µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	98	86 - 115
Toluene-d8	99	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**MOO-0241**
PROJECT ID:	JAL #4	DATE SAMPLED:	11/3/00
PROJECT #:	NA	NEL SAMPLE ID:	P0011027-02

TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**

METHOD:	EPA 8260B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/11/00
DILUTION:	1	ANALYZED:	11/11/00

PARAMETER	Result		Reporting Limit
Benzene	130	µg/L	5 µg/L
Toluene	40	µg/L	5 µg/L
Ethylbenzene	73	µg/L	5 µg/L
Total Xylenes	120	µg/L	10 µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	95	86 - 115
Toluene-d8	100	88 - 110

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	001109AQ60BX_2A-BLK
TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	SJO - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/9/00
		ANALYZED:	11/9/00

PARAMETER	Result	Reporting Limit
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	4. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	97	86 - 115
Toluene-d8	97	88 - 110

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
OJECT ID:	JAL #4	DATE SAMPLED:	NA
OJECT #:	NA	NEL SAMPLE ID:	001111AQ60BX_2A-BLK
TEST:	**Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**		
METHOD:	EPA 8260B	ANALYST:	CHG - Las Vegas Division
MATRIX:	Aqueous	EXTRACTED:	11/11/00
		ANALYZED:	11/11/00

PARAMETER	Result	Reporting Limit
MTBE	ND	5. µg/L
Benzene	ND	5. µg/L
Toluene	ND	5. µg/L
Ethylbenzene	ND	5. µg/L
Total Xylenes	ND	10. µg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	97	86 - 115
Toluene-d8	98	88 - 110

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
OJECT #: NA
..ST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
7.00 Buffer	001106PH-LCS	7	7	100	99 - 101	
7.00 Buffer	001106PH-LCSD	7	7	100	99 - 101	0.

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Alkalinity, Total	001107ALK-LCS	125	125.42	100	90 - 110	
Alkalinity, Total	001107ALK-LCSD	125	123.94	99	90 - 110	1.2

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
TEST: **Volatile Organic Compounds by EPA SW846 Method 8260B, Dec. 1996**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Benzene	001109AQ60BX_2A-LCS	50	49.31	99	80 - 120	
Benzene	P0011026-01-MS	50	50.19	100	76 - 127	
Benzene	P0011026-01-MSD	50	50.23	100	76 - 127	0.1
Toluene	001109AQ60BX_2A-LCS	50	49.54	99	80 - 120	
Toluene	P0011026-01-MS	50	49.54	99	76 - 125	
Toluene	P0011026-01-MSD	50	49.45	99	76 - 125	0.2
Ethylbenzene	001109AQ60BX_2A-LCS	50	49.66	99	80 - 120	
Ethylbenzene	P0011026-01-MS	50	51.49	103	70 - 130	
Ethylbenzene	P0011026-01-MSD	50	50.57	101	70 - 130	1.8
Total Xylenes	001109AQ60BX_2A-LCS	150	157.45	105	80 - 120	
Total Xylenes	P0011026-01-MS	150	156.17	104	70 - 130	
Total Xylenes	P0011026-01-MSD	150	155.76	104	70 - 130	0.3

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: JAL #4
PROJECT #: NA
LIST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Specific Conductance	001109CONDA-LCS	1412	1410	100	95 - 105	

ND - Not Detected

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'aso Natural Gas Company
_ #4

rganic Non-Metals
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NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
001109F-LCS	2	2	100	84 - 109	
001109F-LCSD	2	2	100	84 - 109	0.2
P0011022-01-MS	1	1.1	110	71 - 126	
P0011022-01-MSD	1	1.2	120	71 - 126	8.7

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LABORATORIES

Paso Natural Gas Company
L #4

rganic Non-Metals
ıeous

NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
001109IC-LCS	100	97	97	90 - 110	
001109IC-LCSD	100	98	98	90 - 110	1.

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'aso Natural Gas Company
. #4

rganic Non-Metals
ıeous

	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
ls	001109TDS-LCS	1000	996	100	94 - 102	

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Paso Natural Gas Company
#4

rganic Non-Metals
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NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
001111IC-LCS	100	99	99	90 - 110	
001111IC-LCSD	100	99	99	90 - 110	0.
001111IC-LCS	100	100	100	90 - 110	
001111IC-LCSD	100	100	100	90 - 110	0.
001111IC-LCS	100	97	97	90 - 110	
001111IC-LCSD	100	97	97	90 - 110	0.

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NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
P011027HG-LCS	0.005	0.00468	94	85 - 115	
P0011027-01-MS	0.005	0.00421	84	70 - 130	
P0011027-01-MSD	0.005	0.0039	78	70 - 130	7.6

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NEL Sample ID	Spike Amount	Spike Result	Percent Recovery		Acceptable Range	RPD
P11026I-LCS	0.5	0.509	102		85 - 115	
P0011026-01-MS	0.5	0.51	102		75 - 125	
P0011026-01-MSD	0.5	0.52	104		75 - 125	1.9
P11026I-LCS	1	1.07	107		85 - 115	
P0011026-01-MS	1	1.1	96		75 - 125	
P0011026-01-MSD	1	1.12	98		75 - 125	2.1
P11026I-LCS	1	1.08	108		85 - 115	
P0011026-01-MS	1	1.53	96		75 - 125	
P0011026-01-MSD	1	1.6	103		75 - 125	7.
P11026I-LCS	0.2	0.217	109		85 - 115	
P0011026-01-MS	0.2	0.213	107		75 - 125	
P0011026-01-MSD	0.2	0.219	110		75 - 125	2.8
P11026I-LCS	10	10.9	109		85 - 115	
P0011026-01-MS	10	454	-460	C	75 - 125	
P0011026-01-MSD	10	503	30	C	75 - 125	-227.9
P11026I-LCS	0.5	0.539	108		85 - 115	
P0011026-01-MS	0.5	0.507	101		75 - 125	
P0011026-01-MSD	0.5	0.517	103		75 - 125	2.
P11026I-LCS	0.5	0.548	110		85 - 115	
P0011026-01-MS	0.5	0.526	104		75 - 125	
P0011026-01-MSD	0.5	0.534	106		75 - 125	1.5
P11026I-LCS	1	1	100		85 - 115	
P0011026-01-MS	1	2.4	100		75 - 125	
P0011026-01-MSD	1	2.35	95		75 - 125	5.1
P11026I-LCS	1	1.07	107		85 - 115	
P0011026-01-MS	1	1.01	101		75 - 125	
P0011026-01-MSD	1	1.04	104		75 - 125	2.9
P11026I-LCS	10	10.5	105		85 - 115	
P0011026-01-MS	10	151	-90	C	75 - 125	
P0011026-01-MSD	10	166	60	C	75 - 125	-1000.
P11026I-LCS	0.5	0.549	110		85 - 115	
P0011026-01-MS	0.5	0.884	91		75 - 125	
P0011026-01-MSD	0.5	0.93	100		75 - 125	9.6
P11026I-LCS	10	11.4	114		85 - 115	
P0011026-01-MS	10	25.9	79		75 - 125	
P0011026-01-MSD	10	27.5	95		75 - 125	18.4
P11026I-LCS	0.5	0.513	103		85 - 115	
P0011026-01-MS	0.5	0.529	106		75 - 125	

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NEL Sample ID	Spike Amount	Spike Result	Percent Recovery		Acceptable Range	RPD
P0011026-01-MSD	0.1	0.539	108		75 - 125	1.9
P11026I-LCS	0.5	0.55	110		85 - 115	
P0011026-01-MS	0.5	0.529	106		75 - 125	
P0011026-01-MSD	0.5	0.541	108		75 - 125	2.2
P11026I-LCS	10	11.5	115		85 - 115	
P0011026-01-MS	10	636	-340	C	75 - 125	
P0011026-01-MSD	10	637	-330	C	75 - 125	-3.
P11026I-LCS	0.5	0.556	111		85 - 115	
P0011026-01-MS	0.5	0.554	111		75 - 125	
P0011026-01-MSD	0.5	0.566	113		75 - 125	2.1

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Mike Dunlap 11/3/00

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL # OF CONT	COMP / GR	Cations & Anions	See Attached	BTEX	TDS sp. Cond	METAL	HEAVY METAL	REMARKS
01	11/3/00	10:55	H2O	MOO-0239	5		X	X	X	X	X	X	* Btex 8260 ppb
02	11/3/00	1300	H2O	MOO-0241	5		X	X	X	X	X	X	Linda

Custody Seal Intact: Y N None Temp: 4°
Condition when received: Poor Good

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	11/3/00 1500	[signature]			
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

White - *Testing Laboratory* Canary - *EPNG Lab* Pink - *Field Sampler*

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