GW - 004

2004 MONITORING REPORTS

03/23/2005

GW004

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Groundwater Investigation and Remediation Activities Report 2004

ChevronTexaco Eunice #2 (North) Plant

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Our Ref.:
MT000700.0014

Date:
March 23, 2005

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Groundwater Investigation and Remediation Activities Report 2004

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1 Introduction

This report is intended to provide a comprehensive summary of the results of the current groundwater investigation and remediation activities conducted by ARCADIS G&M, Inc. (ARCADIS) at the Eunice #2 (North) Gas Plant (Site). The Site is located on the northern edge of the town of Eunice, Lea County, New Mexico (see Figure 1). This report has been compiled by ARCADIS on behalf of ChevronTexaco Exploration and Production, Inc. (ChevronTexaco). This report begins at the conclusion of the May-June 2003 sampling event and concludes with the completion of the June-July 2004 sampling event. The May-June 2003 groundwater sampling event, along with previous activities at the Site, were presented in the October 9, 2003, *Groundwater Investigation Summary Report*; the October 9, 2003, *Soils Investigation Summary Report;* and the January 30, 2004, *North Eunice Chromate Remediation Phase One Study.*

1.1 Purpose and Objectives of Investigation

The purpose of the current investigation is to monitor and document the extent of environmental impacts with respect to the following issues:

- The horizontal and vertical extent of chromium, hydrocarbon and dissolved solids impacts in the groundwater associated with the Site;
- Groundwater hydrogeologic parameters;
- Possible receptors; and
- Effectiveness of In-situ Reactive Zone (IRZ) technology for groundwater chromium remediation.

To accomplish the purpose of the current investigation, specific objectives included the following:

- Identification of the properties and pathways by which migration occurred in the past, may currently be occurring, or may occur in the future;
- Delineation of areas where the groundwater has been impacted beyond the boundary of the Site; and
- Development of physical and chemical data relating to impacted groundwater at the Site for the purpose of implementing remedial alternatives.

- Additional IRZ Implementation and monitoring.

These objectives have been, or are currently being, accomplished by the following activities:

- Collection of groundwater analytical data during semi-annual sampling events and preparation of isoconcentration maps to determine the nature and extent of constituents of concern (COCs), and observation of general groundwater quality trends;
- Collection of field parameters during sampling events;
- Quarterly measurements of water levels and preparation of potentiometric surface maps for the purpose of estimating groundwater flow direction and rate of movement;
- Continuation of the IRZ remediation Phase 1 project to evaluate the effectiveness of this remediation method; and
- Initiation of an IRZ remediation system designed to intercept the distal end of the chromate plume.

1.2 Site Background and Location

A natural gas processing plant was constructed in the 1940s and operated on the Site from the 1940s through the 1980s. The Site is no longer being operated as a gas plant. It has been partially dismantled and is currently being operated as a natural gas compressor station by Dynegy Midstream Services, L.P. (Dynegy). The Site is located approximately 0.25 miles north of the town of Eunice, New Mexico, in the south half (S/2) of the southeast quarter (SE/4) of the northeast quarter (NE/4) of Section 28, Township 21 South (T-21-S) Range 37 East (R-37-E) Lea County, New Mexico. Figure 1 presents the Site Location Map.

2. Executive Summary

This is the first annual report detailing the ongoing investigation and remediation activities at the North Eunice site. Previous reports completed by ARCADIS and earlier investigators presented the results of groundwater and soil investigations and outlined the initiation of remediation activities at the site. Three COCs remain on site affecting groundwater quality: chromate; hydrocarbons; and chloride. Where the chromate and hydrocarbon contaminates intermix in the groundwater, a reduction in the chromate concentration has been noted indicating that a naturally occurring remediation process is on-going. Current remediation efforts utilize an expansion and enhancement of this natural process.

Wells within the subject area have been sampled and analyzed semi-annually for the COCs and for other compounds. Results of the laboratory analyses for the COCs are compared to the Primary and Secondary Drinking Water Standards established by the United States Environmental Protection Agency (EPA) for public drinking water supplies. The EPA's primary drinking water standard for a particular constituent is also known as the maximum contaminant level (MCL). The EPA's secondary standard for a constituent is known as a secondary level (SL).

2.1 Groundwater Chromium

The results of investigations at the Site indicate that water containing dissolved chromium, most likely originating from surface sources, has apparently percolated into the groundwater south and southwest of the plant site and possibly within the plant site itself. Historic pumping from a water well located at the northern edge of the plant (EPWW1), as well as groundwater recharge (possibly due to landscape irrigation) and resultant mounding associated with the residential neighborhood located to the south and southwest of plant, has altered the natural eastward direction of groundwater flow. In this area, the hydraulic gradient in the groundwater is generally northwest, north and northeast toward the plant site. Thus, chromium in the groundwater follows this same flow path. In the area of the plant, the natural groundwater gradient once again dominates, shifting the flow eastward.

The chromium plume within the Ogallala Aquifer at and in the vicinity of the plant site has been fully defined and delineated. The Ogallala Aquifer underlying the Site has poor but definite vertical hydraulic continuity, resulting in stratified concentrations of chromium within the aquifer. The chromium impact has been evaluated on the basis of the "deep" Ogallala Aquifer and the "shallow" Ogallala Aquifer zones. Previous reports referred to both "shallow" and "shallow/middle" zones within the Ogallala Aquifer. For simplicity in this report, the term "shallow" refers to both of the previously identified "shallow" and "shallow/middle" zones. An exception to this terminology is found in report sections 4.1.8 and 5.2.1 discussing the evaluation of the effects of the IRZ injection program where there are enough monitor screened wells with discrete intervals to allow for an evaluation of greater stratigraphic detail. As noted in the maps attached to this report, the chromium impact in the shallow portion of the Ogallala in the plant site area covers a larger area than the chromium plume in the deep portion of the aquifer. This results in the shallow chromium plume overlying portions of the deep zone that contain chromium below the MCL. This stratification of the chromium is indicative of the sometimes poor vertical hydraulic continuity and groundwater flow.

The highest concentrations of chromium in the deep zone of the aquifer occur to the southwest of the plant site and appear to move with the hydraulic gradient to the north

and then eastward. The deep zone hydraulically merges with the shallow zone of the aquifer east of the plant site as the aquifer thins in gross saturated thickness. From this point of merger eastward, the aquifer is considered both geologically and hydrologically to be part of the deep zone. All monitor wells drilled east of the merger fully penetrate, and are screened throughout, the saturated portion of the aquifer.

In the shallow zone of the aquifer, the highest chromium concentrations occur southwest of the plant site, under the southern part of the plant site and in an area immediately to the east of the plant site.

Elevated hydrocarbon concentrations were observed in the groundwater at the northeast, east and southeast areas of the plant. This hydrocarbon plume lies near the center of the chromate plume and consists of light phase-separated and dissolved components. Chromate concentrations were reported at significantly lower levels than anticipated within the area where the chromate and hydrocarbon plumes intermix and in monitor wells located immediately down-gradient of the hydrocarbon-impacted monitor wells.

The reduction in chromate concentrations in the region of chromate and hydrocarbon intermixing is due to the biogeochemical reduction of hexavalent chromium to trivalent chromium and the resulting precipitation and filtration of the trivalent chromium in the geologic matrix of the aquifer. The naturally-occurring microorganisms have fed upon the hydrocarbon impacting the aquifer, not only consuming the oil, but developing a chemically reducing environment within the aquifer which precipitates the chromium. The resulting chromium precipitate is filtered from the groundwater by the natural filtering properties of the rock composing the aquifer. This has resulted in dramatic reductions in chromium concentrations within the aquifer. In addition, the chromium may also be directly reacting with the hydrocarbon chemically. In the area where the dissolved hydrocarbon exists, chromium concentrations have been reported at concentrations below laboratory quantitation limits. This process, which has been naturally occurring within the aquifer, is being expanded, modified and specifically engineered to remediate the chromate plume in an IRZ process.

The Phase I IRZ chromate remediation program has been designed to evaluate a potentially complex multi-layer hydrogeologic system, exploiting the Site hydrodynamics and biogeochemistry in order to optimize the design and implementation of a full-scale system in the most cost-effective and time-efficient manner possible.

In the IRZ remediation technique currently in use at the Site, a carbohydrate solution, consisting of food-grade molasses, is being substituted for the hydrocarbon as a more efficient and controllable food source for the microorganisms naturally occurring

within the aquifer. The chromate IRZ groundwater remediation began with the Phase I installation of three injection wells and associated monitor wells located between 200 and 800 feet to the southwest of the plant site in the study area. Once the plume was completely delineated, a line of 14 injection wells was drilled and completed near the downgradient distal (eastern) end of the chromate plume 2800 feet to the east of the plant site. This line of injection wells has been situated to intercept, and with the injection of the carbon substrate (food grade molasses), remediate the chromate plume as it flows naturally through the treatment area eastward. Additional monitor wells have also been drilled and completed to more fully delineate the extent of the chromate plume and to monitor the effects of the remediation efforts.

The study area IRZ monitor wells have indicated reductions of hexavalent and dissolved chromium since the pilot program began in June 2003. Reductions in both hexavalent and dissolved chromium have been gradual because of the hydrogeologic complexity of the aquifer in the study area. The distal end IRZ monitor wells exhibited immediate reductions of hexavalent and dissolved chromium. The immediate reductions in both chromium analytes may be attributed to increased hydraulic velocities in the vicinity of the distal end IRZ array.

2.2 Groundwater Hydrocarbons

The dissolved hydrocarbon plume in the Ogallala Aquifer groundwater associated with the plant site has been fully defined. Only a small area of groundwater (totally within the Site boundary) has benzene above the EPA MCL for drinking water. A second small area of groundwater containing benzene above MCL is located south of the plant site, but does not appear to be related to the historic plant operations. Benzene, toluene, ethylbenzene and xylenes (BTEX) and total petroleum hydrocabons (TPH) concentrations also exist at the locations where benzene has been detected, and TPH has been identified east of the plant site at a location unrelated to historic plant operation.

As noted above, the hydrocarbons in the groundwater are assisting in the remediation of the chromium by providing carbon substrate to the groundwater, encouraging the proliferation of bacteria. This in turn produces a reducing environment within the aquifer resulting in chemical precipitation of the chromium.

Phase-separated hydrocarbons (PSH) have been observed floating on the groundwater in two wells located near the eastern edge of the plant and are currently being removed on a weekly basis. The volume of recovered hydrocarbons from MW006 has varied from 1 to 12.5 gallons per removal event. MW005 has only a sheen of PSH on the water surface, and no PSH was recovered during this reporting period. In order to assist in chromium removal, as described in Section 2.1, and as long as the

hydrocarbon plume does not materially migrate, groundwater hydrocarbon remediation will be initiated at a later date, but PSH will continue to be removed.

2.3 Groundwater Dissolved Solids

Elevated dissolved solids impacts to the Ogallala Aquifer at the Site have also been identified. The dissolved solids present in the groundwater samples have been quantified by laboratory analysis as total dissolved solids (TDS). For the purposes of this report, only the chloride ion will be identified as a COC.

Most of the elevated chloride concentrations appear to be unrelated to historic plant activities. The highest concentrations appear at sites southwest and south of the plant site (hydraulically upgradient) and east of the plant site (hydraulically downgradient). The sources of the high chloride concentrations have not yet been identified with any certainty. There are no immediate plans to remediate the elevated chlorides in the aquifer. They will continue to be monitored.

3. Physical Characteristics of the Area

The following sections identify the physical characteristics of the Site and surrounding area including the physiological, topographical, geological and hydrological conditions.

3.1 Physiology

The Site lies in southern Lea County, which is located in the Pecos Valley section of the Great Plains physiographic province. The Site lies within the Eunice Plain, which is bounded by the South Plain to the south, Rattlesnake Ridge to the east, the High Plains to the northeast, the Laguna Valley and Grama Ridge Area to the northwest, the San Simon Ridge and San Simon Swale to the west and the Antelope Ridge Area to the southwest. An estimated 80% of southern Lea County is covered by sand. Shin oak, bear grass, and bur-grass dominate the areas of sand cover. Elsewhere, the vegetation is grama grass, bur-grass and mesquite.

3.2 Topography

Monument Draw is the only major surface drainage feature in southern Lea County. The draw runs north to south slightly over two miles east of the Site. The topography in the area of the plant slopes gently to Monument Draw at an approximate dip of 35 feet per mile. Small closed basins or playas exist on this sloping surface. The sewage treatment plant for the town of Eunice lies approximately 4,300 feet southeast of the southeast corner of the Site and northeast of the center of Eunice.

3.3 Geology

The geologic formations of interest at the Site include (from oldest to youngest), the Triassic Chinle, Cretaceous undifferentiated, Tertiary Ogallala and Quaternary eolian sedimentation, designated the Blackwater Draw. Of particular interest with regard to the impact of COCs released to groundwater are the Tertiary Ogallala and Quaternary Blackwater Draw.

3.3.1 Triassic Chinle Formation

The Triassic Chinle Formation is composed of red and green claystone, with minor fine-grained sandstones and siltstones. It is found to exist under all of the eastern part of southern Lea County, thinning to the west and absent in the extreme western part of the county. The Chinle forms the base of the fresh groundwater due to the formation's low vertical (and generally horizontal) permeability that impedes most vertical groundwater movement into the formation. The top of the Chinle (base of the Ogallala Aquifer) is an erosional surface that rises in elevation from west to east under the plant site. Just east of the plant, the Chinle top begins to dip down toward Monument Draw as illustrated in the West-East cross-section (see Figure 25).

3.3.2 Cretaceous Formations Undifferentiated

The Cretaceous formations, undifferentiated, have almost all been removed by erosion and are essentially nonexistent in the Site area. The only known exposure of Cretaceous rocks consists of large slump blocks of limestone in a gravel pit east of the town of Eunice. Semi-consolidated sands and gravels of possible lower Cretaceous, the equivalent of the Paluxy sand, have been described from exposures in gravel pits east of Eunice. However, the sand and gravel sequence also has characteristics of the Tertiary Ogallala described below. The Cretaceous has not been encountered at the Site.

3.3.3 Tertiary Ogallala Formation

The lower Tertiary Ogallala Formation is composed of fluvial sediments of the Miocene-Pliocene epochs. It is a heterogeneous combination of clay, silt, sand and gravel of braided-stream deposits interbedded with, and overlain by, eolian sediments deposited as sand sheets and loess resting directly upon an erosional surface carved into the Triassic Chinle Formation under the Site (See figures 25, 26 and 27). The fluvial sediments were deposited on a sloping plain in the form of coalescing alluvial fans, by streams that originated in the Rocky Mountains to the west and northwest. The Ogallala Formation was deposited in laterally restricted lenses of material, predominantly medium to yellowish-gray conglomeratic sandstone and fine to

medium-grained well-sorted sandstone. The primary fresh water-bearing formation under and in the vicinity of the plant site is the Ogallala.

In contrast to the fluvial deposition of the lower Ogallala sediments, the upper part of the Ogallala and all of the Blackwater Draw Formation overlying the Ogallala are composed of windblown (eolian) deposits. In exposures and cores described in the literature, the very fine sand facies of the upper Ogallala are thick, ranging up to 125 feet and capped by the Caprock caliche or calcrete. The Caprock caliche marks the top of the Ogallala.

3.3.4 Quaternary Blackwater Draw Formation

The Blackwater Draw Formation occurs as a mantle of Quaternary eolian sediment locally as thick as 100 feet, covering an area of the Southern High Plains of northeastern Texas and eastern New Mexico. Throughout the depositional time of the Blackwater Draw Formation, laterally restricted lenticular layers of eolian and playa or lacustrine facies were formed. The Blackwater Draw Formation occurs near the ground surface at the plant site and contains reddish sediments composed of up to six well-developed buried soils with similar features of lithology and morphology. The soil development occurred during periods of landscape stability, separated by intermittent periods of deposition, or by deflation that stripped surface horizons from newly developed soils.

3.4 Hydrology

The primary source of fresh water at the Site is the Ogallala Formation. It is bounded on the base of the aquifer by an eroded surface of a firm red silty clay of the Chinle Formation. The base of the Ogallala is composed of a 5 to 10-foot interval of gravel/sand/clay, which in this study is informally termed the "deep" water-bearing zone in the Ogallala aquifer. The gravel unit is in turn overlain by a red to yellow sand that exhibits vertical heterogeneity with alternating layers of loose and well-consolidated sand. This overlying unit constitutes the "shallow" water-bearing zone. Wells screened in the gravel unit have 40 to 50 feet of hydraulic head. Wells screened in the shallow water-bearing zone of the groundwater have screens that intersect the groundwater table and typically have 10 to 45 feet of saturation. Overall depth to groundwater varies roughly with local topography and ranges from 37 to 73 feet below the surface.

Regionally, the groundwater gradient was to the southeast in the area of the plant site. However, a water table high now exists south of the plant site, creating a hydraulic gradient that has southwest, west, northwest, north and northeast trends (See figures 28, 29, 30, and 31). The elevations of the groundwater in the shallow and deep zones are

similar, indicating that there is hydraulic continuity between the zones. Maps are included in this report that show the water table elevation contours and resulting directions of groundwater flow occurring at the time that the various water level measurement were made for this reporting period.

The groundwater in the area may extend into the eolian portion of the upper Ogallala, but lies below the Blackwater Draw Formation. The Ogallala aquifer in the subject area is hydraulically unconfined.

4 Investigation Methods and Results

This section presents the methodologies and results of each type of data collection conducted during the groundwater investigation. The data collection types include observations and measurements made in the field as well as sampling protocol and laboratory analytical methods. The summarized results of observations and analyses for the specified media and parameters are included in Table 3 through Table 5; field parameters are included in Table 6.

4.1 Groundwater Investigation and Monitoring

The groundwater investigation was designed and conducted to accomplish the following goals:

1. Evaluate the structure and composition of each stratum to refine the geological framework;
2. Define the COCs;
3. Define the vertical and horizontal extent of groundwater impact;
4. Analyze and estimate the hydrologic characteristics of the shallow and deep portions of the water-bearing unit; and
5. Monitor the effects of the remediation efforts.

4.1.1 Well Design, Development, and Sampling

Injection, recovery and monitoring well design, and construction and the development and sampling of these wells were all governed by the specific characteristics of the hydrogeological unit penetrated and the intended purpose of the well. The design, construction, development and sampling details for each well type are discussed in the following sections. Drilling was conducted by Scarborough Drilling Company of Lamesa, Texas and John White Drilling Company of Clyde, Texas. Air/water rotary drilling rigs were utilized for the drilling of all monitor and injection wells.

4.1.1.1 Monitor Well Design

The monitor wells were installed in order to delineate the horizontal and vertical extent of chromium and hydrocarbon impacts in the groundwater. As of the date of this report, there were 117 wells included in the monitoring program as part of the groundwater investigation. The list of wells currently monitored include: 108 wells designated as monitor wells (MW prefix); four wells previously designated as recovery wells (RW prefix); and five wells drilled and owned by landowners (WW suffix). These monitor wells were installed on Site property as well as properties adjacent to the Site.

The design and construction of the monitoring wells vary due to the site-specific geology, depth to groundwater, and saturated formation thickness encountered during drilling. Currently, groundwater impacts at the Site are being evaluated on the basis of the "deep" Ogallala Aquifer and the "shallow" Ogallala Aquifer zones. Previous reports referred to "shallow/middle", "middle" and "deep" zones within the Ogallala Aquifer. Monitor well nomenclature was based upon this differentiation of screened intervals. For simplicity, this report uses the term "shallow", referring to the previously identified "shallow", "shallow/middle" and "middle" zones.

An exception to this terminology is found in report Section 4.1.8 and 5.2.1 discussing the evaluation of the effects of the IRZ injection program where there are sufficient monitor wells with discrete screened intervals to allow for an evaluation of greater stratigraphic detail. For consistency, the well names remain unchanged. Monitoring wells with screened intervals in the shallow portion of the aquifer have only a numeric suffix. Three monitoring wells with screened intervals only in the middle portion of the aquifer have an "M" suffix. Monitoring wells with screened intervals in the deep portion of the aquifer have an "A" suffix. Monitoring wells with screened intervals fully-penetrating from the shallow to the deep portion of the aquifer have an SA suffix. The wells designated "SA" are located on the eastern side of the Site in an area where the Ogallala Aquifer thins significantly. A true geologic distinction cannot be made between the shallow, middle and deep portion of the Ogallala.

Four permanent recovery wells were constructed during early aquifer evaluation for the purpose of estimating the aquifer hydraulic characteristics. One recovery well, RW001, drilled by a previous investigator, was intended for preliminary aquifer testing, but due to completion questions has not been utilized by ARCADIS for its designed purpose. RW002 and RW003 were completed at a total depth of approximately 65 feet below ground level (bgl) and screened to approximately 45 feet bgl. These two wells were used to evaluate the shallow water-bearing unit. RW004A was completed at 115 feet bgl and screened to 95 feet bgl. This well was used to

evaluate the deep water-bearing unit. RW004A has since been converted to an injection well and the other three wells are now used as monitor wells.

All recovery wells are constructed with 6-inch diameter flush-joint Schedule 40 PVC casing with 0.020-inch, PVC mill-slotted screen, 8/16 silica sand filter pack, and a hydrated bentonite seal. The well annulus is grouted to the surface with 5-percent bentonite-cement slurry. A three-foot by three-foot concrete slab six inches thick has been constructed and a 3-foot tall locking protective sleeve installed around each wellhead.

Of the 108 monitor wells on the Site, 50 wells are designated shallow zone monitor wells and 58 wells are designated deep zone monitor wells. Eight are designated as landowner wells. The well locations are presented on Figure 2, and a detailed well construction summary is presented in Table 1.

All of the monitor wells were drilled with an air/water rotary drilling rig and completed with 4-inch PVC casing and 0.020-inch PVC mill-slotted screen. The screens are gravel packed with 8/16 silica sand to a point approximately three to five feet above the top of the screen. Three to five feet of bentonite has been placed on top of the gravel pack, and the balance of the annular space between the casing and borehole wall has been grouted to the surface with a five-percent bentonite/cement slurry, circulated to the surface. A three-foot by three-foot concrete slab six inches thick has been placed around the casing for both-flush mount wells and wells with risers and locking, steel, protective sleeves. The flush-mount wells have standard traffic-bearing manhole covers. Each well has been developed by bailing and then by pumping, until the well cleared of suspended material and lost drilling fluid was recovered.

Drill cuttings were analyzed by an ARCADIS geologist on all wells drilled under ARCADIS supervision, at the time the wells were drilled. All well locations and the top of the casing elevations have been surveyed by a State of New Mexico Registered Surveyor. Well logs showing subsurface lithologic descriptions and well completion data have been drafted. Well logs for the injection wells are located in Appendix B.

4.1.1.2 Injection Well Design

Two injection wells were constructed for the IRZ Remediation Phase 1 Study (IW001 and IW002). One recovery well (RW004A) is also being used for injection. These three wells serve as injection points for the introduction of carbon substrate fluids into the groundwater-bearing unit. RW004A is completed at 115-feet bgl and screened to 95-feet bgl in the deep zone. IW001 and IW002 are completed at a total depth of 90 feet bgl and screened from 35-90 feet bgl in the shallow zone. IW001 and IW002 were constructed with 4-inch diameter flush-joint Schedule 40 PVC casing with 0.020-inch,

mill slotted screen, an 8/16 silica sand filter pack, and a hydrated bentonite seal. RW004A was constructed with 6-inch diameter flush-joint Schedule 40 PVC casing with 0.020-inch, PVC mill slotted screen, 8/16 silica sand filter pack, and a hydrated bentonite seal. The annulus of the wells is grouted to the surface with 5-percent bentonite-cement slurry. A three-foot by three-foot by six-inch concrete foundation has been constructed and a 3-foot tall locking protective sleeve has been installed around each wellhead.

4.1.1.3 Well Development

During the well construction, drilling fluids were introduced into the well bore to maintain the integrity of the hole while drilling. Wells were developed upon installation. The well development was intended to remove any fluids introduced to the well and the aquifer during installation as well as remove suspended sand, silt or clay.

Prior to January 2004, each cased and filter-packed well was bailed to remove drilling fluid, settled sand, silt or clay. Following the bailing, the wells were purged with a submersible pump for approximately three hours or until 1,000 gallons were removed. Additionally, purging continued until pH, temperature, and conductivity values of the groundwater had stabilized. The top of the filter pack was then remeasured and additional sand added to bring the level to the desired elevation, usually one-foot above the top of the screened interval. The annulus was then sealed with a bentonite plug and grouted to the surface with hydrated cement or a cement-bentonite mixture.

Beginning in January 2004, all new injection and monitoring wells, including all 14 distal injection wells and their associated monitor wells, were more aggressively developed. This additional development included the addition of a polymer-based mud dispersant and mechanical surging and bailing of the cased and filter packed well. The mud dispersant was injected into the cased and sand-packed well after the well had been bailed. The mud dispersant was then allowed to percolate into the aquifer for at least 12 hours. The mud dispersant was intended to mobilize clay particles that may have contaminated and sealed the aquifer surrounding the well bore during the drilling process. The well was then alternately bailed and surged until as much as possible of the fine sand, silt, and clay particles had been removed. The filter-pack was then remeasured, the needed sand added, and the well was completed as described in the previous paragraph.

4.1.1.4 Well Redevelopment

Redevelopment of the three study area injection wells and their associated monitor wells was undertaken in January 2004 after anomalous observations were noted. Flow

of the injected reagent into the aquifer from the injection wells, and flow of the groundwater into the monitor wells, was not consistent with area observations. It appeared that the permeability of the porous media of the aquifer was being blocked by fine particles forced into the aquifer matrix by the hydrostatic and mechanical pressures associated with the drilling process. Additional chemical and mechanical means were incorporated to restore the aquifer's characteristics.

Redevelopment consisted of the addition of a polymer based mud dispersant and further development of the wells with bailer and surge block. The dispersant was injected into the well casing and allowed to percolate through the well screen and sand filter pack into the aquifer for at least 12 hours. The well was then alternately surged and bailed until as much of the fine sand, silt, and clay particles had been removed as was possible.

4.1.1.5 Well Sampling

Following well installation and development, groundwater samples were collected. Samples were collected using disposable bailers to minimize potential for cross-contamination between sampling locations.

Groundwater samples were analyzed for BTEX, TPH, arsenic, barium, cadmium, chromium (Total), dissolved chromium, dissolved hexavalent chromium, lead, mercury, selenium, silver, and major ions. The analytical methods for these samples are contained in Section 4.1.5.5.

4.1.2 Water Well Inventory and Results

During the previous investigation, a water well search was conducted within a one-mile radius of the Site through a review of New Mexico State Engineer's records and field reconnaissance. That investigation revealed records for 12 water wells. An additional investigation was conducted by ARCADIS to confirm the water well locations through visual inspection. The field investigation confirmed eight water wells of the 12 wells identified previously:

- BlackWW (Lloyd Black);
- CriswellWW (D. M. Criswell);
- EPWW1 (Skelly Gas Plant #2);
- GOPWW2 (Gulf Oil Corp.);
- RowlandWW (R.L. McLean);

- SGPWW2 (Skelly Gas Plant #2- plugged and abandoned with no access); and
- WoodellWW (Ronnie Worden).

In addition, the following wells are identified by ARCADIS during field activities that had not been identified by previous investigators:

- LordWW (Bob Lord)
- ERWW3

With the exception of SGPWW2, all water wells located within a one-mile radius of the plant site are presented in Figure 2. Records for five other water wells within a one-mile radius to the east of the Site have been located in published records. To date, these wells have not been located on the ground.

4.1.3 Groundwater Level Monitoring

Water level measurements are being routinely collected for the purpose of mapping the water table and determining the hydraulic gradient. These measurements are taken prior to purging or sampling of the monitor wells. The depth to water from the established measuring point for each well is measured using a battery-powered water level meter. Measurements for each well are taken from the same permanent, clearly marked, surveyed reference point (measuring point) marked on the top of the PVC casing. Depth to water is recorded to the nearest hundredth of a foot. The elevation of the water level with respect to mean sea level is calculated and reported to the nearest hundredth of a foot.

Each groundwater monitoring event includes a measurement of the water level in each monitor, recovery, and water well available at the time of the monitoring event. Currently, there are 108 monitor wells, four recovery wells, seven water wells and 16 injection wells available for water level collection. In addition to the measurement of water levels, MW005 and MW006 are examined for the presence of PSH using an oil-water interface probe.

The water level meter and the oil-water interface probe are decontaminated prior to their use in each well. Decontamination is conducted using a low phosphate, laboratory-grade detergent followed by a deionized water rinse. The measurement probe and the oil-water interface probe are inspected for proper operation prior to each groundwater monitoring event. This ensures that accurate measurements of the water level are made during each event. In addition, the total depth of the well and the casing stickup above ground surface is measured on each well.

4.1.4 Groundwater Sampling

This section describes the field methods and procedures that are being used during the groundwater sampling events conducted during the course of this investigation. Sampling prior to this report period was conducted on a quarterly basis and utilized both multiple-well-volume and low-flow (micropurge) purging techniques. Comparisons of the two purging techniques resulted in adoption of multiple-well-volume purging technique as being the most representative. Sampling during this report period was conducted on a semi-annual basis, and semi-annual sampling is planned for future events. The multiple-well-volume purging technique is used in sampling all wells with the exception of those monitoring wells located in close proximity to, and used to directly monitor, the IRZ injection wells. The following sampling methods and procedures cover purging, field parameter collection and field documentation including field forms and field notes.

4.1.4.1 Low-Flow Purging of Wells

A low-volume, low-flow purging technique, approved by the EPA, had been used for most sampling events and on most wells prior to the sampling events detailed in this report. However, as sampling data was evaluated from succeeding sampling events, it became apparent that the low-flow purging was not producing representative samples of the chromium concentrations stratified within the aquifer. This was demonstrated by comparing low-flow purge with multiple-well-volume purge sampling results. In this comparison, it was demonstrated that the purging of multiple-well-volumes resulted in higher chromium results than the low-flow purge procedure in some wells. For this reason, the purging of multiple-well-volumes has been reinitiated as the preferred purging procedure and will be consistently used in the future on all wells with the exception of the carbon substrate injection wells and associated monitor wells. The low-flow purge procedure will continue to be used on the injection wells and associated monitor wells to prevent the displacement of the carbon substrate in the well.

During the sampling in which the low-flow purging is utilized, the following purging procedures are followed:

1. Prior to sampling, each monitor well is purged at a low-flow rate. This is achieved by pumping groundwater in such a manner as to minimize drawdown and until monitored field parameters stabilize in the purged water;
2. A 2-inch nitrogen-driven bladder pump is used for the low-flow purging procedure;

3. To minimize cross-contamination, a new disposable bladder is installed on the pump during the decontamination process and prior to placing the pump in the next well; and
4. Each well has dedicated tubing.

4.1.4.2 Multiple-Well-Volume Purging

Wells that are purged of at least three calculated well volumes use an electric submersible pump prior to sampling. The pump discharge is monitored for pH, temperature, and conductivity with pumping continuing until the measured parameters stabilize and at least three calculated well volumes are purged from the well.

4.1.4.3 Collecting Field Parameters

Stabilization of the groundwater chemistry during the purging process is established by monitoring field parameters. The equipment used for the field measurements is calibrated at least once during each day of the sampling event. Field parameters are collected with a QED Micropurge Basics™ MP20D multi-meter. Low-flow purging of each well to be sampled continues until the field measurements of pH, temperature, specific conductance, oxidation-reduction potential, and dissolved oxygen of the purged water has stabilized within a specified range of the previous measurements. The specified ranges for the measured parameters are:

1. Dissolved oxygen (DO) and pH: plus or minus 0.2 units ;
2. Specific conductance: plus or minus 0.02 units; and
3. Oxidation-reduction potential (ORP): plus or minus 20 units.

During purging, water levels are measured to monitor drawdown in the well. In addition, field tests for ferrous iron and hydrogen sulfide are conducted using HACH™ test kits. A summary of the field parameters collected is presented in Table 6.

4.1.4.4 Documenting Field Activities

Field documentation includes preprinted field forms as well as field notes completed by the sampling personnel. Pre-printed well sampling logs are used to record the field parameters previously discussed in Section 4.1.4.3. In addition, color, odor, appearance, pumping rate, pump settings, purge times, sampling times, and any other pertinent observations are recorded. All information related to a sampling event is recorded in bound field notebooks, with entries recorded in black indelible ink. Information recorded in the field notes include the project, location, date, time, weather conditions, name and identity of sampling personnel, and all other pertinent notes.

4.1.5 Groundwater Analytical Methods and Procedures

This section discusses the methods and procedures utilized for sample collection, sample containers, preservation of the samples, sampling order and sample labeling. Analytical methods including shipment of samples to the analytical laboratory and field analytical methods are also discussed.

4.1.5.1 Sample Collection

The methods and procedures associated with sample collection include sample container selection, preservation, filtration and the order in which samples will be collected.

The volume of samples and types of sample containers used depend on the parameters to be analyzed. The EPA guidelines for sample containers, preservation, holding times, etc. (as presented in Table 8) are adhered to during sampling events conducted at this site. Some of the primary elements of the EPA guidelines adhered to in the sampling events conducted during the current investigation are:

1. All samples are kept at, or below, a temperature of 4° Celsius (°C) from the time of collection until delivery to the analytical laboratory;
2. Samples for analysis of metals, including chromium and hexavalent chromium, are filtered in the field. Filtration is accomplished using a disposable 0.45-micron filter. Nitric acid is added to the containerized sample as a preservative for all the total metals that were analyzed:
3. After purging the well, the time elapsed before collecting the water sample is kept as short as possible to avoid variations in groundwater chemistry;
4. If contamination is known to be present in one or more of the monitor wells at the Site, sampling begins with the well known to be the least contaminated and ends with the well that is most impacted. Where no impact is known or suspected, sampling proceeds from the well with the highest water level elevation (up-gradient) to the one with the lowest water level elevation (down-gradient); and
5. The sample containers are filled in the following order based on volatilization sensitivity: VOCs and BTEX; semi-volatile organic compounds (SVOCs); metals; and other inorganic parameters.

4.1.5.2 Sample Labeling

All sample containers are labeled with the well identification number, site identification, analyses to be performed, preservatives used, date and time of sample collection, and name of sampler. This information is written with indelible ink.

4.1.5.3 *Sample Storing, Packing and Transporting*

After sample collection, all samples are kept cold (at 4°C) and transported to the laboratory by overnight courier under standard custody protocols. Shipment of samples to the laboratory is performed daily due to applicable holding times. The samples are placed in re-sealable bags and packed in a cooler containing ice in sufficient quantity to maintain the temperature at 4°C. A material such as vermiculite is used in the cooler to prevent or minimize the likelihood of container breakage. The cooler is secured using reinforced shipping tape.

4.1.5.4 *Chain-of-Custody Documentation*

Proper chain-of-custody (Chain) documentation accompanies the samples from the field to the analytical laboratory. The Chain is signed by each party handling the samples, from sampler to the laboratory, to document the possession of the samples at all times. Individuals relinquishing and receiving the samples are required to sign, date and note the time of transfer on the Chain form. The Chain documentation also contains data and information for each sample, including sample identification, well number, date and time of sample collection, preservatives used and the analyses to be performed. In addition, all sample coolers are sealed using a signed custody seal to prevent tampering or to provide direct evidence in the event of tampering.

4.1.5.5 *Analytical Methods*

The methods used for analysis of water samples collected for the current groundwater monitoring program are documented in Standard Methods for Examination of Water and Wastewater, 18th edition, 1992 or EPA SW-846. A complete list of analyses and analytical methods implemented during the past sampling events is presented in Table 8.

4.1.6 Groundwater Sampling Results

This section discusses the groundwater sampling results obtained from the following sampling events:

- December 2003/January 2004 combined with February/March 2004 (the analytical data acquired during the December 2003/January 2004 sampling event has been expanded to include the analytical data acquired from the completion of additional injection and monitor wells during February and March of 2004); and
- June/July 2004.

The results of the laboratory analysis for the COCs were compared to the Primary and Secondary Drinking Water Standards established by the EPA for public drinking water supplies. The EPA's primary drinking water standard for a particular constituent is also known as the MCL. The EPA's secondary standard for a constituent is known as an SL. Laboratory analytical results are presented on the CD in Appendix C.

4.1.6.1 Shallow Wells, December 2003/January 2004/February/March 2004 Groundwater Sampling Event Analytical Results

A total of fifty-one shallow wells were sampled during the December 2003/January 2004/February/March 2004 groundwater sampling event. The sampled wells include: forty-four monitor wells; three middle zone monitor wells; two injection wells; and two recovery wells. The forty-four monitor wells sampled include: MW001 through MW004, MW007 through MW015, MW018, MW020, MW021, MW023 through MW038, MW043 through MW047, MW058 through MW061 and MW068 through MW070. The three middle zone monitor wells sampled include: MW008M, MW011M, and MW012M. The two injection wells sampled were: IW001 and IW002. The two recovery wells sampled were: RW002 and RW003.

The groundwater samples obtained from the wells were analyzed for chromium, hexavalent chromium, BTEX and TPH. The TPH analyses have been broken into Gasoline Range Organics (GRO) with a carbon range from C_6 through C_{12} and Diesel Range Organics (DRO) with a carbon range from C_{10} through C_{32}. TPH concentrations were calculated as the sum of GRO and DRO. Analytical results for the organic compounds (BTEX and TPH) are presented in Table 3, metals are presented in Table 4, and inorganic constituents are presented in Table 5. Analytical methods are presented in Table 8.

Groundwater samples from the following 19 shallow wells were analyzed for BTEX: MW001, MW002, MW004, MW009, MW021, MW023, MW024, MW033 through MW038, MW043 through MW047, and MW058. BTEX was detected in MW001, MW033, MW036, MW037, MW038, and MW046. Benzene concentrations exceeded the MCL of 0.005 mg/L in MW001, MW033, MW036, MW037, MW038, and MW046. Toluene, ethylbenzene and xylene concentrations were below their respective MCLs of 2.0 mg/L, 0.7 mg/L and 10 mg/L in all samples, respectively. BTEX isoconcentrations are presented in Figure 3. Benzene isoconcentrations are presented in Figure 5. In addition, PSH was measured in MW005 (0.37 feet) and MW006 (2.12 feet) approximately 47 feet bgl.

Groundwater samples from the following 19 shallow wells were analyzed for TPH: MW001, MW002, MW004, MW009, MW021, MW023, MW024, MW033 through MW038, MW043 through MW047, and MW058. TPH was detected in MW001,

MW033, MW036, MW037, MW038, MW043, MW044, and MW046. TPH was analyzed for GRO and DRO hydrocarbons and the results added for the TPH value. The January 2004 shallow well TPH isoconcentrations is presented in Figure 7.

Groundwater samples from the following 47 shallow wells were analyzed for dissolved chromium and hexavalent chromium: MW001 through MW004, MW007 through MW008M, MW011M, MW012M, MW015, MW018, MW020, MW021, MW023 through MW038, MW043 through MW047, MW058 through MW061, MW068 through MW070, RW002, RW003, IW001, and IW002. The MCL for chromium is 0.1 mg/L. Chromium analytical results for MW003, MW004, MW008, MW011, MW012, MW008M, MW011M, MW012M, MW013, MW014, MW023, RW002, RW003, IW001 and IW002 were reported above the MCL. Figure 9 presents the December 2003 through January 2004 shallow well chromium concentrations and isoconcentration map. Hexavalent chromium concentrations exceeded 0.1 mg/L in the following wells: IW001, IW002, MW003, MW008, MW008M, MW011, MW011M, MW012, MW012M, MW013, MW014, MW023, MW061, RW002 and RW003. The December 2003 hexavalent chromium concentrations in the shallow wells and isoconcentration map are presented in Figure 11.

Groundwater samples from the following 50 shallow wells were analyzed for chloride: MW001 through MW004, MW007 through MW015, MW018, MW020, MW021, MW023, MW024, MW025 through MW038, MW043 through MW047, MW058 through MW061, and MW068 through MW070, MW008M, MW011M, MW012M, RW002 and RW003. Chloride concentrations exceeded 250 mg/L (the SL for chloride) in the following wells: IW001, IW002, MW002 through MW04, MW007 through MW015, MW008M, MW011M, MW012M, MW020, MW023, MW024, MW026, MW027, MW028, MW032, MW033, MW034, MW036, MW037, MW044, MW045, MW047, MW060, MW061, MW068, MW069, RW002, and RW003. Figure 13 presents the December 2003/January 2004 shallow well chloride concentrations and isconcentration map.

4.1.6.2 Deep Wells, December 2003/January 2004/February 2004/March 2004 Groundwater Sampling Event Analytical Results

A total of 74 deep wells were sampled during the December 2003/January 2004/February/March 2004, sampling event. The sampled wells included twelve injection wells, fifty-six monitor wells, five water wells, and one recovery well. The twelve injection wells include IW003 through IW008 and IW010, IW011, IW013 through IW016. The fifty-six monitor wells that were sampled include: MW002A, MW004A, MW007A through MW009A, MW011A through MW024A, MW039A through MW042A, MW046A, MW062A, MW63A, MW070A, MW048SA through MW057SA, MW064SA through MW067SA, and MW071SA through MW085SA.

The five water wells sampled are: EPWW1, GOPWW2, LordWW, RowlandWW and WoodellWW. The recovery well sampled is RW004A.

The groundwater samples obtained from the 74 deep wells were analyzed for one or more of the following constituents: chromium; hexavalent chromium; BTEX; and TPH. The TPH analyses have been broken into GRO with a carbon atom range from C_6 through C_{12} and DRO with a carbon atom range from C_{10} through C_{32}. TPH concentrations were calculated as the sum of GRO and DRO. Analytical results for BTEX and TPH are presented in Table 3, metals are presented in Table 4, and inorganics are presented in Table 5. Analytical methods are presented in Table 7.

Groundwater samples from the following 27 deep wells were analyzed for BTEX: EPWW1, IW003 through IW007, IW010, IW011, IW013 through IW016, MW046A, MW048SA, MW049SA, and MW074SA through MW085SA. BTEX was detected in EPWW1 and IW013. Benzene concentrations were reported below laboratory quantitation limits in all of the deep wells sampled except EPWW1 which was below MCL. Ethylbenzene and xylene concentrations were below their respective MCLs of 0.7 mg/L and 10 mg/L in all samples. The December 2003-March 2004 deep well BTEX concentrations and isoconcentration map are presented in Figure 4. Benzene concentrations and isoconcentration map are presented in Figure 6.

Groundwater samples from the following 27 deep wells were analyzed for TPH: EPWW1, IW003 through IW007, IW010, IW011, IW013 through IW016, MW046A, MW048SA, MW049SA, and MW074SA through MW085SA. TPH was detected in MW076SA through MW078SA and in MW080SA. TPH was analyzed for GRO and DRO hydrocarbons and the results combined and reported as the TPH value. The December 2003-March 2004 deep well TPH concentrations and isoconcentration map are presented in Figure 8.

Groundwater samples from the following 73 deep wells were analyzed for dissolved chromium: IW003 through IW006, IW008, IW010, IW011, IW013 through IW016, MW008A, MW009A, MW011A through MW024A, MW039A through MW042A, MW046A, MW048SA through MW057SA, MW062SA, MW063SA MW064SA through MW067SA, MW070SA, MW074SA through MW085SA, Roland, Woodell, Lord, EPWW1, GWPWW2 and RW004A, MW074SA through MW085SA, and RW004A. The MCL for chromium is 0.1 mg/L. Chromium analytical results for the following deep wells were reported above the MCL: IW003, IW004, IW005, IW010, IW013, IW015, IW016, MW008A, MW009A, MW011A, MW013A, MW014A, MW048SA, MW051SA, MW052SA, MW054SA through MW057SA, MW064SA, MW066SA, MW071SA, MW081SA, MW085SA, RW004A, and EPWW1. Figure 10 presents the December 2003 dissolved chromium concentrations and isoconcentraton map.

Groundwater samples from the following 73 deep wells were analyzed for hexavalent chromium: IW003 through IW006, IW008, IW010 through IW016, MW002A, MW004A, MW007A through MW009A, MW011A through MW024A, MW039A through MW042A, MW046A, MW048SA, through MW057SA, MW062A, MW63A, MW064SA through MW067SA, MW070A, MW071SA through MW085SA, EPWW1, GOPWW2, LordWW, RowlandWW, WoodellWW, and RW004A. Hexavalent chromium concentrations exceeded 0.1 mg/L in the following wells: EPWW1, IW003, IW005, IW013, IW015, MW007A through MW009A, MW013A, MW041A, MW051SA through MW56SA, MW064SA, and MW066SA. The December 2003 through March 2004 hexavalent chromium concentrations and isoconcentration map are presented in Figure 12.

Groundwater samples from the following 73 deep wells were analyzed for chloride: IW003 through IW008, IW010, IW011, IW013 through IW016, MW002A, MW004A, MW007A through MW009A, MW011A through MW024A, MW039A through MW042A, MW046A, MW048SA, MW049SA through MW057SA, MW062A, MW63A, MW064SA through MW067SA, MW070A, MW071SA through MW085SA, EPWW1, GOPWW2, LordWW, RowlandWW and WoodellWW, and RW004A. Chloride concentrations exceeded 250 mg/L in the following deep wells: IW003 through IW007, IW010, IW011, IW013 through IW016, MW002A, MW004A, MW007A through MW009A, MW011A, MW013A, MW015A, MW016A, MW019A, MW021A, MW022A, MW024A, MW041A, MW042A, MW046A, MW48SA through MW52SA, MW054SA through MW056SA, MW064SA through MW067SA, MW071SA through MW077SA, MW079SA through MW085SA, RowlandWW, WoodellWW, EPWW1. GWPWW2 and RW004A. The December 2003 through March 2004 deep well chloride concentrations and isoconcentration map are presented in Figure 14.

4.1.6.3 Shallow Wells, June/July 2004 Groundwater Sampling Event Analytical Results

A total of 51 shallow wells were sampled during the June/July 2004 sampling event. The sampled wells included two injection wells, 47 shallow/middle monitor wells and two recovery wells. The two injection wells that were sampled are IW001 and IW002. The 47 monitor wells that were sampled include: MW001 through MW004, MW007 through MW015, MW018, MW020, MW021, MW023 through MW038, MW043 through MW047, MW058 through MW061, MW068 through MW070, MW008M, MW011M and MW012M. The two recovery wells sampled were RW002 and RW003.

The groundwater samples obtained from the wells were analyzed for dissolved chromium, hexavalent chromium, BTEX and TPH. The TPH analyses have been broken into GRO with a carbon atom range from C_6 through C_{12} and DRO with a

carbon atom range from C_{10} through C_{32}. TPH concentrations were calculated as the sum of GRO and DRO. Analytical results for BTEX and TPH are presented in Table 3, metals are presented in Table 4, and inorganics are presented in Table 5. Analytical methods are presented in Table 7.

Groundwater samples from the following 16 shallow wells were analyzed for BTEX: MW001, MW002, MW003, MW009, MW021, MW024, MW033 through MW038, MW043, MW044, MW046, and MW058. BTEX was detected in MW001, MW033, MW036, MW037, and MW038. Benzene concentrations exceeded the maximum contaminant level (MCL, 0.005 mg/L) in MW001, MW033, MW036, MW037 and MW038. Ethylbenzene and xylenes concentrations were both below their respective MCLs of 0.7 mg/L and 10 mg/L in all samples. BTEX concentrations and isoconcentration map are presented in Figure 15. The June/July 2004 benzene concentrations and isconcentration map are presented in Figure 16. In addition, PSH continued to be encountered and was measured in MW005 and MW006 (see Table 7).

Groundwater samples from the following 16 shallow wells were analyzed for TPH: MW001, MW002, MW003, MW009, MW021, MW024, MW033 through MW038, MW043, MW044, MW046, and MW058. TPH was detected in MW001, MW033, MW036, MW037, MW038, MW043, MW044 and MW046. TPH was analyzed for GRO and DRO hydrocarbons and the results added for the TPH value. The June/July 2004 TPH concentrations and isoconcentration map are presented in Figure 17.

Groundwater samples from the following 51 shallow wells were analyzed for dissolved chromium: MW001 through MW004, MW007 through MW015, MW018, MW020, MW021, MW023 through MW038, MW043 through MW047, MW058 through MW061, MW068 through MW070, MW008M, MW011M, MW012M, RW002, RW003, IW001 and IW002. The MCL for chromium is 0.1 mg/L. Chromium concentrations exceeded the MCL in the following wells: MW003, MW004, MW008, MW008M, MW011, MW012, MW012M, MW013, MW014, MW023, MW038, MW044, MW061, RW002 and RW003. Figure 19 presents the June/July 2004 chromium concentrations and isoconcentration map.

Groundwater samples from the following 51 shallow wells were analyzed for hexavalent chromium: MW001 through MW004, MW007 through MW015, MW018, MW020, MW021, MW023 through MW038, MW043 through MW047, MW058 through MW061, MW068 through MW070, MW008M, MW011M, MW012M, IW001, IW002, RW002, and RW003. Hexavalent chromium concentrations exceeded 0.1 mg/L (the MCL for chromium) in the following wells: MW003, MW008, MW008M, MW011, MW012, MW012M, MW013, MW014, MW023, MW044, MW061, RW002, and RW003. The June/July 2004 hexavalent chromium isoconcentration map is presented in Figure 21.

Groundwater samples from the following 51 shallow wells were analyzed for chloride: MW001 through MW004, MW007 through MW015, MW018, MW020, MW021, MW023 through MW038, MW043 through MW047, MW058 through MW061, MW068 through MW070, MW008M, MW011M, MW012M, IW001, IW002, RW002, and RW003. Chloride concentrations exceeded 250 mg/L in the following wells: IW001, IW002, MW001 through MW004, MW007 through MW008, MW008M, MW010, MW011, MW011M, MW012M, MW013 through MW015, MW020, MW023, MW024, MW026, MW027, MW028, MW032, MW033, MW034, MW036 through MW038, MW044, MW045, MW060, MW061, MW069, RW002 and RW003. Figure 23 presents the June/July 2004 chloride isconcentration map.

4.1.6.4 Deep Wells, June/July 2004 Groundwater Sampling Event Analytical Results

A total of 76 deep wells were sampled during the June/July 2004 sampling event. The sampled wells included 14 injection wells, fifty-six monitor wells, five water wells, and one recovery well. The twelve injection wells sampled include IW003 through IW016. The 56 monitor wells that were sampled include MW002A, MW004A, MW007A through MW009A, MW011A through MW024A, MW039A through MW042A, MW046A, MW048SA through MW057SA, MW062A, MW067SA, MW070A, MW071SA through MW085SA. The five water wells sampled include: EPWW1, GOPWW2, LordWW, RowlandWW and WoodellWW. The recovery well sampled was RW004A.

The groundwater samples obtained from the 76 deep wells were analyzed for chromium, hexavalent chromium, BTEX and TPH. The TPH analyses have been broken into GRO with a carbon atom range from C_6 through C_{12} and DRO with a carbon atom range from C_{10} through C_{32}. TPH concentrations were calculated as the sum of GRO and DRO. Analytical results for BTEX and TPH are presented in Table 3, metals are presented in Table 4, and inorganics are presented in Table 5. Analytical methods are presented in Table 7.

Groundwater samples from the following seven deep wells were analyzed for BTEX: MW009A, MW039A, MW046A, MW049SA, MW051SA, MW077SA, and MW078SA. BTEX concentrations were reported below laboratory quantitation limits in all of the deep wells sampled.

Groundwater samples from the following seven deep wells were analyzed for TPH: MW009A, MW039A, MW046A, MW049SA, MW051SA, MW077SA, and MW078SA. TPH was detected in MW046A. TPH was analyzed for GRO and DRO and the results added to obtain the TPH value. The June through July 2004 TPH concentrations and isoconcentration map are presented in Figure 18.

Groundwater samples from the following 76 deep wells were analyzed for dissolved chromium: IW003 through IW016, MW002A, MW004A, MW007S through MW009A, MW011A through MW024A, MW039A through MW042A, MW046A, MW048SA through MW057A, MW062SA, MW063A, MW064SA through MW067SA, MW070A, MW071SA through MW085SA, EPWW1, GOPWW2, LordWW, RolandWW, WoodellWW and RW004. Chromium analytical results for the following deep wells were reported above the 0.1 mg/L MCL: IW003 through IW006, IW009, IW013, IW015, MW007A through MW009A, MW011A, MW024A and MW0039A, MW041A, MW048SA, MW051SA, MW052SA, MW054SA through MW056SA, MW064SA, MW066SA, RW004 and EPWW1. Figure 20 presents the June/July 2004 chromium concentrations and isoconcentration map.

Groundwater samples from the following 76 deep wells were analyzed for hexavalent chromium: IW003 through IW016, MW002A, MW004A, MW007A through MW009A, MW011A through MW024A, MW039A through MW042A, MW046A, MW048SA through MW057SA, MW062A, MW63A, MW064SA through MW067SA, MW070A, MW071SA through MW085SA, EPWW1, GOPWW2, LordWW, RowlandWW, WoodellWW, and RW004A. Hexavalent chromium concentrations exceeded 0.1 mg/L in the following wells: EPWW1, IW015, MW004A, MW007A through MW009A, MW011A, MW013A, MW024A, MW039A, MW041A, MW48SA, MW051SA, MW052SA, MW054SA through MW56SA, MW064SA, MW066SA and MW084SA. The June/July 2004 hexavalent chromium concentrations and isoconcentration map are presented in Figure 22.

Groundwater samples from the following 76 deep wells were analyzed for chloride: IW003 through IW016, MW002A, MW004A, MW007A through MW009A, MW011A through MW024A, MW039A through MW042A, MW046A, MW048SA through MW057SA, MW062A, MW63A, MW064SA through MW067SA, MW070A, MW071SA through MW085SA, EPWW1, GOPWW2, LordWW, RowlandWW WoodellWW, and RW004A. Chloride concentrations exceeded 250 mg/L in the following deep wells: IW003 through IW016, MW002A, MW004A, MW008A, MW009A, MW011A, MW013A, MW015A, MW016A, MW019A, MW021A, MW022A, MW024A, MW039A, MW041A, MW042A, MW046A, MW48SA through MW52SA, MW054SA through MW056SA, MW064SA through MW067SA, MW072SA through MW077SA, MW079SA through MW085SA, EPWW1, GOPWW2, RowlandWW, WoodellWW and RW004A. The June/July 2004 chloride concentrations and isoconcentration map are presented in Figure 24.

4.1.7 Phase-Separated Hydrocarbons

This section discusses the recovery methodologies as well as the volume of PSH recovered from MW005 and MW006. These wells are located adjacent to the excavated and backfilled north sump.

4.1.7.1 PSH Measurement, Recovery, and Disposal Methods

The PSH in the monitor wells were identified and measured using an oil water interface probe. The measurements are presented in Table 6. The PSH were recovered using a 1 5/8" polyethylene disposable bailer. The bailer was lowered into the well to the top of the PSH and allowed to sink slowly. The recovered PSH and water were placed in a five-gallon bucket and volumes measured. The PSH and water were then transferred and accumulated in a 55-gallon steel drum. After accumulating a sufficient quantity, the drummed PSH and water were transported to the Rice Operating sump located within the Dynegy plant where it was deposited with other oil being accumulated for reuse. The results of the PSH thicknesses and recovered volumes are located in Table 7.

4.1.7.2 PSH Recovery Volumes

Prior to this reporting period (August 2003 through July 2004), PSH had been observed, measured, and recovered in two monitoring wells MW006 and MW005. During this reporting period, the PSH thicknesses in MW005 have, with a single exception, been less than the minimum necessary for successful measurement and recovery. Measurable and recoverable PSH thicknesses have been recorded in MW006.

A PSH thickness of 0.03 feet was recorded in MW005 during September of 2003. The PSH thickness has been less than the minimum necessary for measurement with the interface probe during all other events. Based upon these measurements, it was determined that removal by bailing would not be effective.

PSH thicknesses as great as 3.06 feet have been measured in MW006. A total of 97.2 gallons of PSH were recovered from MW006 and transported off-site for reuse.

4.1.8 Groundwater Chromium Remediation

Remediation of chromate impacted groundwater is underway in two areas. One, believed to be located in the study area, is approximately 200 to 800 feet south to southwest of the plant. Remediation of the study area has been operational for approximately 18 months. The second, located at the distal end of the chromate plume,

is approximately 2,800 feet east-northeast of the plant. The medial array has been operational for approximately nine months.

There are three injection systems located in what is believed to be the study area. Each of the three systems consists of one injection well with an associated array of monitor wells located at various distances from the injection well, along slightly different directions, and screened through various intervals. The locations of each of the injection wells and associated monitor wells are shown in on Figure 2. The study area systems are evaluating the IRZ effects in the shallow, middle, and deep zones identified in the study area.

At the distal end of the plume, there is an array of 14 injection wells installed across the plume toe. Monitor well arrays have been installed at each end of the injection array with various distances and directions being evaluated. At the distal end of the plume, the saturated interval is treated as one unit, rather than the three units present at the study area. The configuration of the distal injection array and associated monitor wells is shown in Figure 2. A cross-section illustrating the site geology, well construction, and water table elevation is shown in Figure 26.

At the distal treatment zone, the hydrogeology is dominated by an erosional high in the underlying Triassic red bed unit. For this reason, the total screened intervals of the wells in the injection array varying significantly. The ends of the array have a greater saturated interval and the center significantly less. During some sampling events, a few of the injection wells installed in the center of the distal array are actually above the water table and are dry.

4.1.8.1 Summary of IRZ Performance

An IRZ designed for the remediation of chromate is a system that exhibits a distinct pattern of influence as the treated saturated zone is imprinted by the relatively continual effects of the native groundwater flow and the more variable effects of bacterial stimulation. The bacterial stimulation effects are more variable because of the change in general bacterial populations from low to high under the carbon substrate stimulation and the changing response of the stimulated bacterial consortia as native electron acceptors represented by ferric iron and sulfate in the mineral matrix and groundwater are consumed. Sampled parameters that reflect the hydogeologic and biological dynamics include: changes in ORP; consumption of sulfate; production of sulfide; consumption of nitrate; generation of soluble iron and/or manganese; generation of methane and/or carbon dioxide; an increase in alkalinity; increases in total organic carbon (TOC); and most important a reduction in the concentration of hexavalent and dissolved chromium. Appendix A lists each of the monitor wells in the study area IRZ program along with parameters that reflect the influence of the injection program, the

time required for the changes to be seen, the magnitude of the changes, and a conversion of the time frames to an estimated velocity of influence.

An important event during the year was the re-development of the injection wells and monitor wells in both treatment areas. The data indicates that this has resulted in a significant improvement of the dynamics of the expansion of the influence of the IRZ systems, particularly in the study area. Consequently the arrival times and subsequent travel velocities in the study area data set are based on the time from the completion of the well redevelopment program rather than the actual start of carbon substrate injections. The well redevelopment and start up of the distal injection points was more or less congruent; those arrival times are based on the start of the injection program.

The initial response of the IRZ program is typically indicated by a lowering of the ORP followed by the detection of low concentrations of soluble iron and manganese. Deeper IRZ response is represented by a further decline of the ORP to negative values, the appearance of significant concentrations of dissolved iron and manganese, the disappearance of sulfate, and the appearance of high concentrations of carbon dioxide and methane. Direct influence of the injection solutions is represented by significant increases in TOC. Where hexavalent and dissolved chromium have been reduced to low or non-detect concentrations, it has sometimes taken place during the transition from the initial to the deep chemical response. This indicates that the conditions required for chromate removal do not have to be associated with extremely high concentrations of TOC or deeply anaerobic redox condtions. This in turn will have positive impact on the overall design of the full remediation system by increasing injection well spacing and potentially reducing the mass of required carbon substrate injections.

A summary of the IRZ responses correlated to the various zones being monitored and the various zones in which injections are taking place follows for the source and distal treatment areas.

The Study area

- Effects in the Deep Zone.
  - Initial response at a velocity of 0.4 to 0.7 feet per day with shallow and middle injection.
  - Deeper changes in groundwater chemistry at a velocity of 0.4 feet per day with deep injection.

- Effects in the Middle Zone.
  - Initial response at 1 to 3 feet per day with all injection intervals.
  - Deeper changes in groundwater chemistry at a velocity of 0.5 to 0.8 feet per day with all injection intervals

  - Transport of actual carbon substrate at a velocity of 0.4 feet per day with all injection intervals.
  - Chromate removal:
    - Deep injection – 0.4 feet per day
    - Middle zone injection – 0.9 feet per day
    - Shallow injection – 0.4 feet per day

- Effects in the Shallow Zone
  - Initial response 0.2 to 0.4 feet per day with all injection intervals.
  - Deeper change in groundwater chemistry at a velocity of 0.3 feet per day with deep injection interval.

The Distal Treatment Array

- IW-16 at the south end of the array.
  - Initial response at a velocity of 0.5 to 1.5 feet per day (the 1.5 foot per day rate was in 79SA only 10 feet away).
  - A deeper change in groundwater chemistry traveled at a velocity of 0.2 to 0.4 feet per day.
  - Carbon substrate from the injections traveled at a velocity of 0.1 to 0.4 feet per day.
  - Chromate removal was observed at a velocity of 0.2 to 0.5 feet per day.
- IW-14 at the north end of the array.
  - Initial distal response at a velocity of 0.2 to 0.8 feet per day.
  - The deeper change in groundwater chemistry was overprinted with the arrival of carbon substrate solutions at a velocity of 0.2 to 0.3 feet per day.
  - Chromate removal also had a velocity of 0.2 to 0.3 feet per day

In summary, the removal of hexavalent and total dissolved chromium has been demonstrated in the middle zone of the study area and in monitor wells at the medial array. At the study area, the data indicates that the removal of hexavalent and total dissolved chromium will also take place in the shallow and deeper zones as well, although at a relatively slower rate of propagation. Given the data in hand to date it is likely that the downgradient influence from a given injection well in the middle zone of the study area and the medial array will propagate at a velocity near 0.5 feet per day. This is under current hydrogeologic and biochemical operating conditions. The pilot testing program is currently being used to develop modifications to the injection protocols to improve the velocity of the influence from the injection points and to provide better influence in the deep and shallow zones at the study area. These changes include modifications of the hydrogeologic injection regime by using an injection system designed for lower injection flow rates on a constant basis. In addition to improving the hydraulics of the injection flow system, this should also

contribute to lower labor costs. Also, modifications to the carbon substrate reagent blend are currently being evaluated. All modifications will involve the use of food-grade reagents, with the goal of increasing the biogeochemical life expectancy of the reagents in the saturated zone. An increase in hydraulic influence coupled with longer reagent life will significantly reduce the number of injection wells that will ultimately be required for Site-wide remediation, reduce the reagent requirements during the life of the program, and potentially reduce the amount of time required to attain clean-up goals for the impacting hexavalent and total dissolved chromium.

4.2 Waste Disposal

Wastewater generated from the development, sampling and testing of monitor, recovery, injection and water wells has been characterized and disposed of in two ways: 1) wastewater has been drummed and stored on location and periodically removed by oil-field vacuum truck for disposal into a New Mexico Oil Conservation Division (NMOCD) permitted deep injection well; and 2) wastewater has also been disposed of in the plant wastewater sump along with plant wastewater.

The PSH and wastewater generated during PSH recovery has been deposited in the plant sump. The PSH and water are separated within the sump. The PSH is accumulated with oil from the plant for reuse, and the wastewater is disposed of in a NMOCD-permitted deep injection well.

5 Conclusions

Beginning in 1995, several environmental investigations have been conducted at the ChevronTexaco Eunice #2 (North) Gas Plant, Eunice, New Mexico. These investigations have produced data confirming hydrocarbon, chromium and chloride ion invasion of the Tertiary Ogallala. Remediation activities have begun addressing the PSH on the groundwater, and chromium in the groundwater. The chloride ion investigation also continues in the subject area. However, it appears that the sources of much of the chloride impacts are off-site and unrelated to plant activities.

In order to determine the extent of the contamination and the effectiveness of remedial activities, groundwater samples from numerous wells have been analyzed for the following COCs: BTEX, TPH, chromium, hexavalent chromium, and chloride. In addition to the COCs, selected groundwater samples were analyzed for additional metals (see Table 4), inorganics or major dissolved minerals (see table 5), total organic carbon (see Table 5), and permanent gasses (see Table 5). The following field parameters were also measured during sampling: temperature, pH, specific conductance, dissolved oxygen, oxidation-reduction potential, iron and sulfide (see Table 6).

The COCs for the investigation of the hydrocarbon impacts have been in the form of PSH as both light nonaqueous phase hydrocarbons and dissolved hydrocarbons. The COCs for the investigation of chromium impacts have been in the form of total chromium, dissolved total chromium, and dissolved hexavalent chromium. The COCs for the investigation of saltwater impacts has been in the form of chloride ion. The results of the most recent sampling events spanning August 2003 through July 2004 are described in the following sections.

5.1 Groundwater Hydrocarbons

The dissolved and PSH hydrocarbon plumes in the Ogallala Aquifer groundwater in the area of the plant site have been fully defined. Groundwater from selected wells has been sampled and analyzed for BTEX and TPH. The following eight wells had BTEX concentrations above the laboratory's minimum quantitation limit: IW013, MW001, MW033, MW036, MW037, MW038, MW046, and EPWW1. The following fourteen wells had TPH concentrations above the laboratory's quantitation limits: MW001, MW033, MW036, MW037, MW038, MW043, MW044, MW046, MW046A, MW076SA, MW077SA, MW078SA, and MW80SA. No MCL or SL exists for BTEX or TPH. There are, however MCLs for the BTEX constituents benzene, toluene, ethylbenzene, and total xylenes. Each of these compounds will be reviewed in detail below.

Several shallow monitor wells located within the plant site have benzene levels exceeding the EPA MCL (0.005 mg/L) for drinking water (see figures 5 and 16). The benzene affected area within the plant site includes MW001, MW036, MW037, MW038, and MW046. The benzene concentration in MW046 slightly exceeded the MCL with a concentration of 0.006 mg/L during the January 27, 2004, sampling, but returned to below the MCL during the July 27, 2004, sampling (0.002 mg/L). The other four wells have above MCL for benzene. A single monitor well (MW033), located approximately ¼-mile south of the plant site, contained benzene above the MCL. The benzene detected in MW033 does not appear to be related to the historic plant operations.

Only one deep well exhibited a benzene concentration exceeding the laboratory minimum quantitation limit. The benzene concentration in EPWW1 was 0.003 mg/L during the January 22, 2004, sampling.

Toluene, ethylbenzene, total xylenes and TPH concentrations also exist at the locations where benzene has been detected (see figures 3, 4, 7, 8, 15, 17, and 18). The concentration of toluene reached the MCL (1.0 mg/L) in only one of the wells sampled. Toluene was detected above the minimum laboratory quantitation limits in three of the

wells sampled (MW001, MW033 and MW036). The toluene concentration in shallow well MW033 met the MCL with 1.0 mg/L for the January 7, 2004, sample. The next sampling event, July 28, 2004, found the toluene concentration in MW033 well below the MCL at 0.087 mg/L.

The ethylbenzene concentrations exceeded the minimum laboratory quantitation limits in five wells of the wells sampled: MW001, MW033, MW036, MW037 and MW046. All are shallow wells. The MCL of 0.7 mg/L was not exceeded in any of the wells sampled.

During the January-February-March 2004 sampling event, TPH was identified in 12 wells (MW001, MW033, MW036, MW037, MW038, MW043, MW046, MW046A, MW076SA, MW077SA, MW078SA and MW080SA). Wells MW076SA, MW077SA, MW078SA, and MW080SA are located to the east of the plant site and are apparently unrelated to historic plant operation (See Figure 8). During the June 2004 sampling event, TPH concentrations in MW077SA and MW 078SA were below laboratory quantitation limits (Non-Detect or ND). Groundwater samples from MW076SA and MW080SA were not analyzed for TPH during the June/July 2004 sampling event.

As a point of interest regarding site remediation, the hydrocarbons in the groundwater are assisting in the remediation of the chromium by providing carbon substrate to the groundwater encouraging the proliferation of bacteria. This in turn produces a reducing environment within the aquifer resulting in chemical precipitation of the chromium. In addition, the chromium may be reacting directly with the hydrocarbon in an abiotic reaction. In the area where the dissolved hydrocarbon exists, chromium concentrations were found to be below laboratory quantitation limits. (Compare Figure 3 with figures 9 and 11 and Figure 15 with figures 19 and 21).

Currently, PSH are being removed from the Site on a weekly basis. Only approximately four to five gallons are being removed weekly from MW006. Usually, MW005 has only a sheen of PSH on the water surface. In order to assist in chromium removal, and as long as the hydrocarbon plume does not materially migrate, the groundwater hydrocarbon remediation will be initiated at a later date, but PSH will continue to be removed

5.2 Groundwater Chromium

The chromium plume has been fully defined and delineated in the subject area. The Ogallala Aquifer underlying the Site has poor but definite vertical hydraulic conductivity, resulting in stratified concentrations of chromium within the aquifer. The chromium impact has been evaluated on the basis of the "deep" Ogallala Aquifer and

the "shallow" Ogallala Aquifer zones. As noted in the isoconcentration maps attached to this report (see figures 9 through 12 and 19 through 22), the chromium impact in the shallow and shallow/middle portion of the Ogallala covers an area in places different from the chromium plume in the deep portion of the aquifer in the area of the plant site. This results in the shallow chromium plume overlying portions of the deep zone containing chromium below the MCL. The lack of movement of chromium to the lower zone of the aquifer indicates that the chromium has not fully penetrated the vertical extent of the aquifer in all areas.

The highest concentrations of chromium in the deep zone of the aquifer occur under the southern part of the plant site and appear to move with the hydraulic gradient eastward following what appears to be the naturally occurring hydraulic gradient (figures 10 and 20). The deep zone merges with the shallow zone of the aquifer east of the plant site. The aquifer, from the point of merger eastward, is considered, geologically, to be part of the deep zone. All monitor wells drilled east of the merger point fully penetrate, and are screened throughout, the saturated portion of the aquifer. In the shallow zone of the aquifer, the highest chromium concentrations occur southwest and south of the plant site and immediately to the east of the plant site (figures 9 and 19).

5.2.1 Chromium Remediation

The program for in-situ chromate remediation has been designed to evaluate a potentially complex multi-layer hydrogeologic system and to exploit the Site hydrodynamics and biogeochemistry in order to optimize the design and implementation of a full-scale in-situ system in the most cost-effective and time-efficient manner possible.

Remediation of the chromate impacted groundwater is underway in two areas. The first, located in the study area, is approximately 200 and 800-feet south to southwest of the plant. Remediation of the study area has been operational for approximately 18 months. The second, located at the distal end of the chromate plume, is approximately 2,800 feet to the east-northeast of the plant. The medial array has been in operation for approximately nine months.

The study area wells were originally located to prove the IRZ remediation technology and were placed in an area of higher chromate concentrations and complex geology. The distal injection wells are distributed in an approximate line from north to south and perpendicular to the direction of groundwater flow. The distal wells have been situated as to allow the injected carbohydrate substrate to intercept the eastern-most end of the chromate plume, arresting its movement to the east.

Using the hydrogeologic and chromate plume information obtained from area wells, and the IRZ data obtained from the three study area injection wells, fourteen injection wells and associated monitor wells were situated in a north-south line perpendicular to, and at the distal end of, the chromate plume. This line of injection wells intersects a dome-shaped geologic high in the Triassic Chinle Formation. This dome-shaped rise forces the groundwater within the aquifer to bifurcate and increase in velocity as it flow to the north and south of the dome. The elevation of the Triassic Chinle Formation also appears to drop off to the east of the dome further increasing groundwater velocity.

The remediation of hexavalent and total chromium has been demonstrated in the middle zone of the study area and in monitor wells in the medial array. At the study area, the data indicates that the removal of hexavalent and total chromium will also take place in the shallow and deeper zones as well, although at a relatively slower rate of propagation. Given the data in hand to date it is likely that the downgradient influence from a given injection well in the middle zone of the study area and the entire saturated interval at the medial array will propagate at a velocity near 0.5 feet per day. This is under current hydrogeologic and biochemical operating conditions. The pilot testing program is currently being used to develop modifications to the injection protocols to improve the velocity of the influence from the injection points and provide better influence in the deep and shallow zones at the study area. These changes include modifications of the hydrogeologic injection regime by using an injection system designed for lower injection flow rates on a constant basis. This will improve the hydraulics of the injection flow system and should also contribute to lower labor costs. In addition, modifications to the carbon substrate reagent blend are currently being evaluated. All modifications will involve the use of food-grade reagents, with the goal of increasing the active biogeochemical life of the reagents in the saturated zone. An increase in hydraulic influence coupled with longer reagent life will significantly reduce the number of injection wells that will ultimately be required for site wide remediation, reduce the reagent requirements during the life of the program, and potentially reduce the amount of time that will be required to attain clean up goals for the impacting hexavalent and total chromium.

5.3 Groundwater Chloride

Chloride ion impacts to the Ogallala Aquifer at the Site have also been identified, much of which appears to be off Site and unrelated to historic plant operations (see Figures 13, 14, 23, and 24). The highest concentrations appear at sites southwest and south of the plant site (up the current hydraulic gradient) and east of the plant site (down the hydraulic gradient). The sources of the high chloride concentrations have not yet been identified with any certainty.

6 Long-Range Monitoring And Reporting Program

Plans are to continue the IRZ remediation project at the Site, with frequent regular sampling of monitor wells near the IRZ injection wells to measure the progress of the remediation. All monitor, recovery and injection wells along with selected water wells will be sampled and analyzed semi-annually according to the procedures described above (see sections 4.1.5.4 and 4.1.5.5). Field measurements will be taken at the time the groundwater samples are collected, as described above. Laboratory analysis will be performed on the groundwater samples obtained, and the results studied to monitor the state of the groundwater under the Site. All data obtained will be utilized to measure the progress of the remediation. The results of these studies will continue to be presented to the NMOCD on an annual basis in bound report form.

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Table 1
Summary of Well Details
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Well Id	Casing/Screen Diameter	Surveyed Measuring Point (MP) Elevation	Surveyed Ground Elevation	Screen Interval (feet BGL)	Top of Screen (feet BGL)	Bottom of Screen (feet BGL)	Top of Screen Elevation	Bottom of Screen Elevation	Base of Ogallala (feet BGL)	Base of Ogallala Elevation	Completed Well Depth (feet BGL)	Completed Well TD Elevation
MW001	4	3428.57	3428.79	48-68	48	68	3380.79	3360.79			68.31	3360.48
MW002	4	3432.17	3432.29	48-68	48	68	3384.29	3364.29			68.88	3363.41
MW002A	4	3432.30	3432.30	103-123	103	123	3329.30	3309.30	123	3309.30	124.39	3307.91
MW003	4	3428.27	3426.10	48-68	48	68	3378.10	3358.10			68.17	3357.93
MW004	4	3423.38	3423.59	46.5-66.5	46.5	66.5	3377.09	3357.09			66.56	3357.03
MW004A	4	3423.57	3423.59	94.2-104.2	94.2	104.2	3329.39	3319.39	104	3319.59	103.89	3319.70
MW005	4	3424.77	3425.49	48-68	48	68	3377.49	3357.49			68.00	3357.49
MW006	4	3425.26	3425.09	48-68	48	68	3377.09	3357.09			68.00	3357.09
MW007	4	3428.39	3426.28	46.29-66.29	46.29	66.29	3379.99	3359.99			65.85	3360.43
MW007A	4	3428.13	3426.28	94.31-104.31	94.31	104.31	3331.97	3321.97	110	3316.28	104.31	3321.97
MW008	4	3430.13	3427.90	46.62-66.62	46.62	66.62	3381.28	3361.28			66.30	3361.60
MW008A	4	3430.01	3427.90	105.5-113.4	105.5	113.4	3322.40	3314.50	113	3314.90	112.78	3315.12
MW008M	4	3430.27	3427.95	75-85	75	85	3352.95	3342.95			85.74	3342.21
MW009	4	3427.63	3425.09	46.66-66.66	46.66	66.66	3378.43	3358.43			66.32	3358.77
MW009A	4	3427.48	3425.09	93-100.6	93	100.6	3332.09	3324.49	100	3325.09	100.19	3324.90
MW010	4	3419.42	3419.77	44.75-65.1	44.75	65.1	3375.02	3354.67			65.24	3354.53
MW011	4	3431.49	3429.07	46.5-66.5	46.5	66.5	3382.57	3362.57			66.66	3362.41
MW011A	4	3431.77	3429.28	107.5-115	107.5	115	3321.78	3314.28	116	3313.28	115.27	3314.01
MW011M	4	3431.21	3429.38	80-90	80	90	3349.38	3339.38			90.87	3338.51
MW012	4	3429.51	3427.69	46.5-66.5	46.5	66.5	3381.19	3361.19			66.22	3361.47
MW012A	4	3429.92	3427.42	106.1-113.6	106.1	113.6	3321.32	3313.82	116	3311.42	113.90	3313.52
MW012M	4	3430.06	3427.77	80-90	80	90	3347.77	3337.77			89.06	3338.71
MW013	4	3423.11	3424.40	40-60.2	40	60.2	3384.40	3364.20			60.71	3363.69
MW013A	4	3424.25	3424.39	96.3-106.44	96.3	106.44	3328.09	3317.95	110	3314.39	105.61	3318.78
MW014	4	3424.08	3424.31	41.19-61.19	41.19	61.19	3383.12	3363.12			61.19	3363.12
MW014A	4	3423.90	3424.20	95.15-105.15	95.15	105.15	3329.05	3319.05	109	3315.20	105.42	3318.78
MW015	4	3420.40	3420.55	35-55	35	55	3385.55	3365.55			54.46	3366.09
MW015A	4	3420.55	3420.65	92.20-102.30	92.2	102.3	3328.45	3318.35	103	3317.65	102.49	3318.16

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MW016A	4	3419.92	3419.90	81.51-91.60	81.51	91.6	3338.39	3328.30	91	3328.90	91.85	3328.05
MW017A	4	3424.38	3424.48	93.5-103.6	93.5	103.6	3330.98	3320.88	106	3318.48	103.98	3320.50
MW018	4	3417.15	3417.39	35-55	35	55	3382.39	3362.39			54.30	3363.09
MW018A	4	3416.86	3417.04	71.38-81.55	71.38	81.55	3345.66	3335.49	81	3336.04	81.76	3335.28
MW019A	4	3414.74	3414.95	62.2-72.4	62.2	72.4	3352.75	3342.55	72	3342.95	72.52	3342.43
MW020	4	3420.85	3418.50	35-55	35	55	3383.50	3363.50			55.69	3362.81
MW020A	4	3421.14	3418.50	71-81	71	81	3347.50	3337.50	80	3338.50	77.87	3340.63
MW021	4	3422.72	3420.41	40-60	40	60	3380.41	3360.41			60.21	3360.20
MW021A	4	3422.94	3420.41	75.49-85.49	75.49	85.49	3344.92	3334.92	75	3345.41	85.49	3334.92
MW022A	4	3431.13	3428.50	90.4-100.4	90.4	100.4	3338.10	3328.10	105	3323.50	100.40	3328.10
MW023	4	3436.44	3433.99	46.64-66.04	44.64	66.04	3389.35	3367.95			67.01	3366.98
MW023A	4	3436.26	3434.31	110-120	110	120	3324.31	3314.31	118	3316.31	121.55	3312.76
MW024	4	3431.32	3429.07	36-86	36	86	3393.07	3343.07			87.26	3341.81
MW024A	4	3430.77	3428.98	89.46-99.46	89.46	99.46	3339.52	3329.52	106	3322.98	99.46	3329.52
MW025	4	3432.64	3432.84	46.45-66.45	46.45	66.45	3386.39	3366.39			66.45	3366.39
MW026	4	3432.04	3432.52	43.33-63.33	43.33	63.33	3389.19	3369.19			63.33	3369.19
MW027	4	3443.33	3443.72	51.39-70.43	51.39	70.43	3392.33	3373.29			71.97	3371.75
MW028	4	3451.63	3450.02	63.56-83.56	63.29	82.33	3386.73	3367.69			83.56	3366.46
MW029	4	3446.89	3444.76	59.89-78.54	59.89	78.54	3384.87	3366.22			79.31	3365.45
MW030	4	3439.84	3437.66	55-75	55	75	3382.66	3362.66			75.11	3362.55
MW031	4	3440.68	3438.47	54-74	54	74	3384.47	3364.47			74.81	3363.66
MW032	4	3442.22	3442.52	49.73-69.73	49.73	69.73	3392.79	3372.79			69.73	3372.79
MW033	4	3428.86	3429.06	33.7-63.7	33.7	63.7	3395.36	3365.36			63.70	3365.36
MW034	4	3418.76	3419.00	43.58-63.58	43.58	63.58	3375.42	3355.42			63.58	3355.42
MW035	4	3427.39	3424.98	43.13-63.13	43.13	63.13	3381.85	3361.85			63.13	3361.85
MW036	4	3425.49	3425.80	42-62	42	62	3383.80	3363.80			62.99	3362.81
MW037	4	3423.71	3424.07	42-62	42	62	3382.07	3362.07			62.09	3361.98
MW038	4	3425.23	3425.58	42-62	42	62	3383.58	3363.58			62.32	3363.26
MW039A	4	3435.71	3433.36	107-117	107	117	3326.36	3316.36	117	3316.36	117.23	3316.13
MW040A	4	3422.92	3423.25	100-110	100	110	3323.25	3313.25	109	3314.25	110.58	3312.67

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MW041A	4	3418.42	3418.12	78-88	78	88	3340.12	3330.12	87	3331.12	88.25	3329.87
MW042A	4	3424.75	3425.07	89.86-99.86	89.86	99.86	3335.21	3325.21	100	3325.07	99.86	3325.21
MW043	4	3423.57	3422.55	42-62	42	62	3380.55	3360.55			63.02	3359.53
MW044	4	3420.41	3420.63	41.9-61.9	41.9	61.9	3378.73	3358.73			61.90	3358.73
MW045	4	3425.53	3425.33	46-66	46	66	3379.33	3359.33			66.72	3358.61
MW046	4	3426.81	3426.51	47.43-67.43	47.43	67.43	3379.08	3359.08			67.43	3359.08
MW046A	4	3426.45	3426.94	87-107	87	107	3339.94	3319.94	106	3320.94	108.29	3318.65
MW047	4	3427.65	3427.96	46-66	46	66	3381.96	3361.96			65.40	3362.56
MW048SA	4	3421.10	3418.78	27-82	27	82	3391.78	3336.78	82	3336.78	83.66	3335.12
MW049SA	4	3422.46	3420.15	37-82	37	82	3383.15	3338.15	82	3338.15	82.68	3337.47
MW050SA	4	3419.31	3417.61	38-78	38	78	3379.61	3339.61	78	3339.61	79.25	3338.36
MW051SA	4	3415.42	3413.48	33-63	33	63	3380.48	3350.48	63	3350.48	64.00	3349.48
MW052SA	4	3415.23	3412.90	33-63	33	63	3379.90	3349.90	63	3349.90	64.19	3348.71
MW053SA	4	3413.86	3411.52	35-65	35	65	3376.52	3346.52	65	3346.52	65.81	3345.71
MW054SA	4	3411.38	3409.06	32-57	32	57	3377.06	3352.06	57	3352.06	57.79	3351.27
MW055SA	4	3407.43	3405.33	30-50	30	50	3375.33	3355.33	48.5	3356.83	50.85	3354.48
MW056SA	4	3410.71	3408.51	32-52	32	52	3376.51	3356.51	51	3357.51	52.72	3355.79
MW057SA	4	3417.74	3415.38	33-68	33	68	3382.38	3347.38	68	3347.38	68.84	3346.54
MW058	4	3437.13	3434.98	49-109	49	109	3385.98	3325.98			109.73	3325.25
MW059	4	3442.24	3440.02	45-105	45	105	3395.02	3335.02			104.90	3335.12
MW060	4	3437.70	3435.40	40-100	40	100	3395.40	3335.40			100.04	3335.36
MW061	4	3439.86	3437.77	48.5-108.5	48.5	108.5	3389.27	3329.27			109.56	3328.21
MW062A	4	3434.19	3432.41	98-108	98	108	3334.41	3324.41	106	3326.41	109.35	3323.06
MW063A	4	3435.22	3433.12	96-106	96	106	3337.12	3327.12	106	3327.12	106.54	3326.58
MW064SA	4	3405.15	3403.03	35-75	35	75	3368.03	3328.03	75	3328.03	75.50	3327.53
MW065SA	4	3402.96	3401.00	40-80	40	80	3361.00	3321.00	80	3321.00	80.46	3320.54
MW066SA	4	3404.03	3401.57	41-66	41	66	3360.57	3335.57	66	3335.57	66.39	3335.18
MW067SA	4	3409.16	3406.75	43-83	43	83	3363.75	3323.75	83	3323.75	81.90	3324.85
MW068	4	3448.08	3445.69	45-110	45	110	3400.69	3335.69	116	3329.69	110.47	3335.22
MW069	4	3444.07	3441.56	45-110	45	110	3396.56	3331.56	116	3325.56	110.44	3331.12

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Table 1
Summary of Well Details
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Well Id	Casing/Screen Diameter	Surveyed Measuring Point (MP) Elevation	Surveyed Ground Elevation	Screen Interval (feet BGL)	Top of Screen (feet BGL)	Bottom of Screen (feet BGL)	Top of Screen Elevation	Bottom of Screen Elevation	Base of Ogallala (feet BGL)	Base of Ogallala Elevation	Completed Well Depth (feet BGL)	Completed Well TD Elevation
MW070	4	3439.68	3437.40	48-93	48	93	3389.40	3344.40			93.00	3344.40
MW070A	4	3439.67	3437.34	112-127	112	127	3325.34	3310.34	127	3310.34	124.92	3312.42
MW071SA	4	3401.01	3398.85	29-89	29	89	3369.85	3309.85	89	3309.85	89.84	3309.01
MW072SA	4	3401.34	3399.38	31-91	31	91	3368.38	3308.38	89	3310.38	91.59	3307.79
MW073SA	4	3403.26	3401.11	26-66	26	66	3375.11	3335.11	65	3336.11	66.85	3334.26
MW074SA	4	3409.97	3407.89	39-64	39	64	3368.89	3343.89	64	3343.89	64	3343.89
MW075SA	4	3404.21	3402.15	43-63	43	63	3359.15	3339.15	63	3339.15	63	3339.15
MW076SA	4	3404.13	3402.22	38-93	38	93	3364.22	3309.22	93	3309.22	93	3309.22
MW077SA	4	3401.71	3399.27	42-92	42	92	3357.27	3307.27	90	3309.27	92	3307.27
MW078SA	4	3411.12	3408.49	36-66	36	66	3372.49	3342.49	66	3342.49	66	3342.49
MW079SA	4	3408.80	3406.25	37-67	37	67	3369.25	3339.25	67	3339.25	67	3339.25
MW080SA	4	3408.92	3406.33	39-69	39	69	3367.33	3337.33	72	3334.33	69	3337.33
MW081SA	4	3408.28	3405.71	40-70	40	70	3365.71	3335.71	66	3339.71	70	3335.71
MW082SA	4	3406.25	3403.68	45-75	45	75	3358.68	3328.68	75	3328.68	75	3328.68
MW083SA	4	3406.11	3403.51	45-75	45	75	3358.51	3328.51	76	3327.51	75	3328.51
MW084SA	4	3405.98	3403.36	45-75	45	75	3358.36	3328.36	75	3328.36	75	3328.36
MW085SA	4	3406.98	3403.36	45-75	45	75	3358.36	3328.36	76	3327.36	75	3328.36
MW086SA	4	3402.26	3399.28	50-90	50	90	3349.28	3309.28	90	3309.28	90	3309.28
MW087A	4	3431.03	3428.18	90-115	90	115	3338.18	3313.18	110	3318.18	115	3313.18
MW088M	4	3430.82	3427.98	50-90	50	90	3377.98	3337.98	90	3337.98	90	3337.98
RW001	6	3428.32	3425.73	44.01-104.01	44.01	104.01	3381.72	3321.72			104.01	3321.72
RW002	6	3431.66	3429.48	49.89-69.89	49.89	69.89	3379.59	3359.59			69.89	3359.59
RW003	6	3429.82	3427.53	45-65	45	65	3382.53	3362.53			65.48	3362.05
RW004A	6	3430.11	3427.76	96.4-116.4	96.4	116.4	3331.36	3311.36	115	3312.76	116.40	3311.36
LordWW	6	3419.97	3419.47								68.22	3351.25
RowlandWW	6	3419.47	3418.47								65.54	3352.93
WoodellWW	4	3423.77	N/A	77-97	77	97						
EPWW1	6	3429.95	3428.78								98.85	
IW001	4	3431.91	3429.47	40-90	40	90	3389.47	3339.47	90	3339.47	90.75	3338.72
IW002	4	3430.33	3427.78	40-90	40	90	3387.78	3337.78			90.40	3337.38

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Table 1
Summary of Well Details
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Well Id	Casing/Screen Diameter	Surveyed Measuring Point (MP) Elevation	Surveyed Ground Elevation	Screen Interval (feet BGL)	Top of Screen (feet BGL)	Bottom of Screen (feet BGL)	Top of Screen Elevation	Bottom of Screen Elevation	Base of Ogallala (feet BGL)	Base of Ogallala Elevation	Completed Well Depth (feet BGL)	Completed Well TD Elevation
IW003	4	3406.68	3404.68	35-55	35	55	3369.68	3349.68	50	3354.68	55.00	3349.68
IW004	4	3406.31	3404.14	35-50	35	50	3369.14	3354.14	44	3360.14	50.00	3354.14
IW005	4	3405.36	3403.53	36-46	36	46	3367.53	3357.53	43	3360.53	46.00	3357.53
IW006	4	3404.36	3402.39	35-50	35	50	3367.39	3352.39	45	3357.39	50.00	3352.39
IW007	4	3405.31	3403.46	36-46	36	46	3367.46	3357.46	43	3360.46	46.00	3357.46
IW008	4	3405.37	3403.30	35-50	35	50	3368.30	3353.30	44	3359.30	50.00	3353.30
IW009	4	3406.07	3404.04	35-45	35	45	3369.04	3359.04	43	3361.04	45.00	3359.04
IW010	4	3405.82	3404.28	33-58	33	58	3371.28	3346.28	60	3344.28	58.00	3346.28
IW011	4	3406.83	3404.75	43-63	43	63	3361.75	3341.75	50	3354.75	63.00	3341.75
IW012	4	3405.92	3404.11	43-53	43	53	3361.11	3351.11	53	3351.11	53.00	3351.11
IW013	4	3406.62	3404.39	45-60	45	60	3359.39	3344.39	60	3344.39	60.00	3344.39
IW014	4	3405.48	3403.67	33-73	33	73	3370.67	3330.67	73	3330.67	73.00	3330.67
IW015	4	3406.05	3404.05	34-49	34	49	3370.05	3355.05	48	3356.05	49.00	3355.05
IW016	4	3408.29	3406.20	29-69	29	69	3377.20	3337.20	69	3337.20	69.00	3337.20

Notes:
EP - Eunice Plant
BGL-Below Ground Level
GOP - Gulf Oil Corp.
WW - Water Well
MW - Monitoring Well
RW - Recovery Well
IW- Injection Well
No Suffix - Shallow/Middle Monitoring Well Completion (MW069)
A - Deep Monitoring Well Completion (MW070A)
M-Middle Monitoring Well Completion (MW008M)
SA-Shallow/Deep, Fully-Penetrating, Monitoring Well Completion (MW071SA)
* - Highlander calculated water levels using ground level elevation and TOC elevation to calculate stickups
(P) - Well was pumping during water collection

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
MW001	4/22/1997	NR	68.00	67.94	4	-0.37	3428.57	52.34	3376.23
	12/18/1997	NR					3428.57	52.32	3376.25
	11/16/1999	NR					3428.57	*51.32	3377.25
	5/15/2001	NR					3428.57	50.33	3378.24
	8/23/2001	1422					3428.57	51.02	3377.55
	1/21/2002	1550					3428.57	50.64	3377.93
	4/4/2002	NR					3428.57	50.66	3377.91
	9/3/2002	1205					3428.57	50.44	3378.13
	12/2/2002	1527					3428.57	50.20	3378.37
	1/31/2003	909					3428.57	50.36	3378.21
	3/28/2003	1005					3428.57	50.54	3378.03
	5/19/2003	1630					3428.57	50.36	3378.21
	9/9/2003	1141					3428.57	50.52	3378.05
	1/26/2004	1300					3428.57	50.73	3377.84
	3/30/2004	1345					3428.57	50.71	3377.86
	6/7/2004	850					3428.57	50.76	3377.81
	9/17/2004	1218					3428.57	50.30	3378.27
MW002	4/22/1997	NR	68.00	68.60	4	-0.28	3432.17	55.95	3376.22
	12/18/1997	NR					3432.17	55.62	3376.55
	11/16/1999	NR					3432.17	*54.97	3377.20
	5/15/2001	NR					3432.17	54.15	3378.02
	8/23/2001	1340					3432.17	54.12	3378.05
	1/21/2002	1157					3432.17	54.30	3377.87
	4/4/2002	1020					3432.17	54.31	3377.86
	9/3/2002	1200					3432.17	54.14	3378.03
	12/2/2002	1422					3432.17	53.88	3378.29
	1/30/2003	1359					3432.17	53.88	3378.29
	3/28/2003	1139					3432.17	54.16	3378.01
	5/19/2003	1540					3432.17	53.97	3378.20
	9/9/2003	1114					3432.17	54.05	3378.12
	12/2/2003	1605					3432.17	53.89	3378.28
	3/30/2004	1433					3432.17	54.11	3378.06
	6/7/2004						3432.17	54.21	3377.96
	9/17/2004	956					3432.17	53.94	3378.23
MW002A	1/7/2003	1200	123.00	124.05	4	-0.34	3432.31	54.03	3378.28
	1/30/2003	1351					3432.31	53.89	3378.42

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	3/28/2003	1138					3432.31	54.11	3378.20
	5/19/2003	1545					3432.31	53.99	3378.32
	9/9/2003	1111					3432.31	54.12	3378.19
	12/2/2003	1603					3432.31	53.97	3378.34
	3/30/2004	1434					3432.31	54.20	3378.11
	6/7/2004						3432.31	54.21	3378.10
	9/17/2004	658					3432.31	53.93	3378.38
MW003	4/22/1997	NR	68.00	70.00	4	1.83	3428.27	49.79	3378.48
	12/18/1997	NR					3428.27	49.24	3379.03
	11/16/1999	NR					3428.27	*50.49	3377.78
	5/15/2001	NR					3428.27	49.63	3378.64
	8/23/2001	1320					3428.27	49.99	3378.28
	1/21/2002	1244					3428.27	49.81	3378.46
	4/4/2002	1140					3428.27	49.92	3378.35
	9/3/2002	1105					3428.27	49.80	3378.47
	12/2/2002	1402					3428.27	49.51	3378.76
	1/31/2003	901					3428.27	49.64	3378.63
	3/28/2003	955					3428.27	49.61	3378.66
	5/19/2003	1610					3428.27	49.57	3378.70
	9/9/2003	1156					3428.27	49.64	3378.63
	12/3/2003	1005					3428.27	49.70	3378.57
	3/30/2004	1301					3428.27	49.78	3378.49
	6/7/2004						3428.27	49.74	3378.53
	9/17/2004	1156					3428.27	49.38	3378.89
MW004	4/22/1997	NR	66.50	66.15	4	-0.41	3423.38	48.24	3375.14
	12/18/1997	NR					3423.38	47.69	3375.69
	11/16/1999	NR					3423.38	*46.76	3376.62
	5/15/2001	NR					3423.38	45.91	3377.47
	8/23/2001	958					3423.38	46.12	3377.26
	1/21/2002	1226					3423.38	46.20	3377.18
	4/4/2002	1200					3423.38	46.27	3377.11
	9/3/2002	1045					3423.38	45.95	3377.43
	12/2/2002	1347					3423.38	45.85	3377.53
	1/31/2003	842					3423.38	45.94	3377.44
	3/28/2003	1021					3423.38	45.96	3377.42
	5/19/2003	1400					3423.38	45.97	3377.41

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	9/9/2003	1036					3423.38	46.14	3377.24
	12/3/2003	1001					3423.38	46.15	3377.23
	3/30/2004	1347					3423.38	46.24	3377.14
	6/7/2004						3423.38	46.19	3377.19
	9/17/2004	1138					3423.38	45.90	3377.48
MW004A	12/18/1997	NR	104.20	103.65	4	-0.24	3423.57	48.00	3375.57
	11/16/1999	NR					3423.57	*47.00	3376.57
	5/15/2001	NR					3423.57	46.31	3377.26
	8/23/2001	953					3423.57	46.44	3377.13
	1/21/2002	1229					3423.57	46.44	3377.13
	4/4/2002	1200					3423.57	46.52	3377.05
	9/3/2002	1050					3423.57	46.49	3377.08
	12/2/2002	1345					3423.57	46.10	3377.47
	1/31/2003	844					3423.57	46.16	3377.41
	3/28/2003	1019					3423.57	46.20	3377.37
	5/19/2003	1355					3423.57	46.21	3377.36
	9/9/2003	1038					3423.57	46.36	3377.21
	12/3/2003	958					3423.57	46.38	3377.19
	3/30/2004	NR					3423.57	46.45	3377.12
	6/7/2004						3423.57	46.66	3376.91
	9/17/2004	1140					3423.57	46.18	3377.39
MW005	4/22/1997	NR	68.00		4	-0.22	3424.77	49.30	3375.47
SG (0.8486)	12/18/1997	NR					3424.77	49.52 (0.471)	3375.25
	11/16/1999	NR					3424.77	*48.14	3376.63
	5/15/2001	NR					3424.77	NR	NR
	8/23/2001	1425					3424.77	47.45P/47.82W	3377.26
	1/21/2002	NR					3424.77	47.44P/47.80W	3377.28
	4/9/2002	1300					3424.77	47.27P/47.31W	3377.49
	4/10/2003	1200					3424.77	47.27 (sheen)	3377.50
	5/19/2003	1536					3424.77	47.25	3377.52
	9/8/2003	1145					3424.77	49.22	3375.55
	12/3/2003	1116					3424.77	47.51	3377.26
	3/30/2004	1431					3424.77	47.56	3377.21
	6/7/2004						3424.77	47.54	3377.23
	9/17/2004	1230					3424.77	47.18	3377.59
MW006	4/22/1997	NR	68.00	68.00	4	-0.48	3425.26	49.26	3376.00

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
SG (0.8486)	12/18/1997	NR					3425.26	49.69 (2.78)	3375.57
	11/16/1999	NR					3425.26	*48.69	3376.57
	5/15/2001	NR					3425.26	47.36P/49.48W	3377.58
	8/23/2001	1435					3425.26	47.61P/50.21W	3377.26
	1/21/2002	NR					3425.26	47.60P/50.11W	3377.28
	4/9/2002	1305					3425.26	47.28P/50.35W	3377.52
	9/11/2002	1000					3425.26	47.11P/49.55W	3377.78
	12/5/2002	NR					3425.26	47.35P/49.13W	3377.64
	4/10/2003	1202					3425.26	47.38P/49.61W	3377.54
	5/19/2003	1550					3425.26	47.35P/49.63W	3377.56
	9/8/2003	1105					3425.26	47.56P/49.22W	3377.45
	12/3/2003	1121					3425.26	47.52P/49.95W	3377.37
	3/30/2004	1434					3425.26	47.49P/50.63W	3377.29
	6/7/2004						3425.26	47.70P/49.25W	3377.56
	9/17/2004	1235					3425.26	47.40P/48.75W	
MW007	12/18/1997	NR	66.29	67.84	4	1.99	3428.39	49.43	3378.96
	11/16/1999	NR					3428.39	*50.57	3377.82
	5/15/2001	NR					3428.39	49.70	3378.69
	8/23/2001	1328					3428.39	50.06	3378.33
	1/21/2002	1246					3428.39	49.93	3378.46
	4/4/2002	1140					3428.39	50.03	3378.36
	9/3/2002	1055					3428.39	49.90	3378.49
	12/2/2002	1406					3428.39	49.60	3378.79
	1/31/2003	903					3428.39	49.71	3378.68
	3/28/2003	958					3428.39	49.70	3378.69
	5/19/2003	1410					3428.39	49.60	3378.79
	9/9/2003	1150					3428.39	49.73	3378.66
	12/3/2003	1012					3428.39	49.71	3378.68
	3/30/2004	1337					3428.39	49.89	3378.50
	6/7/2004						3428.39	49.82	3378.57
	9/17/2004	1204					3428.39	49.44	3378.95
MW007A	12/18/1997	NR	111.00	105.98	4	1.67	3428.13	49.37	3378.76
	11/16/1999	NR					3428.13	*50.22	3377.91
	5/15/2001	NR					3428.13	49.38	3378.75
	8/23/2001	1330					3428.13	49.72	3378.41
	1/21/2002	1245					3428.13	49.64	3378.49

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	4/4/2002	1140					3428.13	49.74	3378.39
	9/3/2002	1100					3428.13	49.60	3378.53
	12/2/2002	1404					3428.13	49.32	3378.81
	1/31/2003	905					3428.13	49.43	3378.70
	3/28/2003	1000					3428.13	49.43	3378.70
	5/19/2003	1415					3428.13	49.37	3378.76
	9/9/2003	1152					3428.13	49.43	3378.70
	12/3/2003	1009					3428.13	49.49	3378.64
	3/30/2004	1335					3428.13	49.60	3378.53
	6/7/2004						3428.13	49.53	3378.60
	9/17/2004	1202					3428.13	49.22	3378.91
MW008	12/18/1997	NR	66.62	68.27	4	1.97	3430.13	50.76	3379.37
	11/16/1999	NR					3430.13	*52.25	3377.88
	5/15/2001	NR					3430.13	51.36	3378.77
	8/23/2001	900					3430.13	51.72	3378.41
	1/21/2002	1138					3430.13	51.53	3378.60
	4/4/2002	1110					3430.13	51.60	3378.53
	9/3/2002	1120					3430.13	51.51	3378.62
	12/2/2002	1449					3430.13	51.27	3378.86
	1/31/2003	914					3430.13	51.31	3378.82
	3/28/2003	947					3430.13	51.31	3378.82
	5/19/2003	1555					3430.13	51.21	3378.92
	9/9/2003	1701					3430.13	51.33	3378.80
	12/3/2003	1016					3430.13	51.33	3378.80
	3/30/2004	1355					3430.13	51.40	3378.73
	6/7/2004						3430.13	51.82	3378.31
MW008M	1/21/2002	1136	85.00	88.05	4	2.31	3430.27	51.71	3378.56
	4/4/2002	1110					3430.27	51.77	3378.50
	9/3/2002	1125					3430.27	51.68	3378.59
	12/2/2002	1450					3430.27	51.45	3378.82
	1/31/2003	918					3430.27	51.52	3378.75
	3/28/2003	948					3430.27	51.47	3378.80
	5/19/2003	1600					3430.27	51.44	3378.83
	9/9/2003	1205					3430.27	51.49	3378.78
	12/3/2003	1014					3430.27	51.44	3378.83
	3/30/2004	1357					3430.27	51.52	3378.75

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	6/7/2004						3430.27	51.56	3378.71
MW008A	12/18/1997	NR	114.00	114.83	4	2.05	3430.01	50.81	3379.20
	11/16/1999	NR					3430.01	*52.16	3377.85
	5/15/2001	NR					3430.01	51.34	3378.67
	8/23/2001	850					3430.01	51.64	3378.37
	1/21/2002	1137					3430.01	51.49	3378.52
	4/4/2002	1110					3430.01	51.53	3378.48
	9/3/2002	1130					3430.01	51.41	3378.60
	12/2/2002	1447					3430.01	51.16	3378.85
	1/31/2003	916					3430.01	51.24	3378.77
	3/28/2003	946					3430.01	51.25	3378.76
	5/19/2003	1550					3430.01	51.21	3378.80
	9/9/2003	1203					3430.01	51.26	3378.75
	12/3/2003	1018					3430.01	51.21	3378.80
	3/30/2004	1354					3430.01	51.29	3378.72
	6/7/2004						3430.01	51.32	3378.69
MW009	12/18/1997	NR	66.66	68.57	4	2.25	3427.63	48.98	3378.65
	11/16/1999	NR					3427.63	*50.38	3377.25
	5/15/2001	NR					3427.63	49.59	3378.04
	8/23/2001	945					3427.63	49.85	3377.78
	1/21/2002	1236					3427.63	49.82	3377.81
	4/4/2002	1335					3427.63	49.88	3377.75
	9/3/2002	1035					3427.63	49.75	3377.88
	12/2/2002	1353					3427.63	49.55	3378.08
	1/31/2003	850					3427.63	49.60	3378.03
	3/28/2003	1015					3427.63	49.57	3378.06
	5/19/2003	1350					3427.63	49.53	3378.10
	9/9/2003	1042					3427.63	49.66	3377.97
	12/3/2003	950					3427.63	49.66	3377.97
	3/30/2004	1322					3427.63	49.88	3377.75
	6/7/2004						3427.63	49.77	3377.86
	9/17/2004	1147					3427.63	49.60	3378.03
MW009A	12/18/1997	NR	101.00	102.33	4	2.14	3427.48	49.03	3378.45
	11/16/1999	NR					3427.48	*50.22	3377.26
	5/15/2001	NR					3427.48	49.42	3378.06
	8/23/2001	950					3427.48	49.64	3377.84

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	1/21/2002	1235					3427.48	49.68	3377.80
	4/4/2002	1335					3427.48	49.78	3377.70
	9/3/2002	1040					3427.48	49.55	3377.93
	12/2/2002	1350					3427.48	49.40	3378.08
	1/31/2003	852					3427.48	49.45	3378.03
	3/28/2003	1014					3427.48	49.44	3378.04
	5/19/2003	1345					3427.48	49.43	3378.05
	9/9/2003	1044					3427.48	49.52	3377.96
	12/3/2003	953					3427.48	49.63	3377.85
	3/30/2004	1324					3427.48	49.73	3377.75
	6/7/2004						3427.48	49.65	3377.83
	9/17/2004	1148					3427.48	49.48	3378.00
MW010	12/18/1997	NR	65.10	64.72	4	-0.52	3419.42	43.22	3376.20
	11/16/1999	NR					3419.42	*41.27	3378.15
	5/15/2001	NR					3419.42	40.37	3379.05
	8/23/2001	1012					3419.42	40.61	3378.81
	1/21/2002	1318					3419.42	40.71	3378.71
	4/4/2002	1415					3419.42	40.85	3378.57
	9/3/2002	940					3419.42	40.65	3378.77
	12/2/2002	1255					3419.42	40.50	3378.92
	1/30/2003	1550					3419.42	40.51	3378.91
	3/28/2003	1029					3419.42	40.46	3378.96
	5/19/2003	1325					3419.42	40.52	3378.90
	9/9/2003	1047					3419.42	40.52	3378.90
	12/7/2003	1452					3419.42	40.59	3378.83
	3/30/2004	1229					3419.42	40.81	3378.61
	6/7/2004						3419.42	40.74	3378.68
	9/17/2004	1059					3419.42	40.50	3378.92
MW011	11/16/1999	NR	66.50	68.70	4	2.04	3431.49	*53.58	3377.91
	5/15/2001	NR					3431.49	52.78	3378.71
	8/23/2001	910					3431.49	52.96	3378.53
	1/21/2002	1147					3431.49	52.84	3378.65
	4/4/2002	1045					3431.49	52.89	3378.60
	9/3/2002	1135					3431.49	52.80	3378.69
	12/2/2002	1436					3431.49	52.56	3378.93
	1/30/2003	1422					3431.49	52.51	3378.98

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	3/28/2003	1121					3431.49	52.63	3378.86
	5/19/2003	1510					3431.49	52.58	3378.91
	9/9/2003	1208					3431.49	52.60	3378.89
	12/3/2003	1027					3431.49	52.52	3378.97
	3/30/2004	1408					3431.49	52.56	3378.93
	6/7/2004						3431.49	52.61	3378.88
MW011M	1/21/2002	1146	90.00	92.70	4	1.83	3431.21	52.68	3378.53
	4/4/2002	1045					3431.21	52.63	3378.58
	9/3/2002	1140					3431.21	52.54	3378.67
	12/2/2002	1433					3431.21	52.32	3378.89
	1/30/2003	1425					3431.21	52.25	3378.96
	3/28/2003	1119					3431.21	52.32	3378.89
	5/19/2003	1515					3431.21	52.31	3378.90
	9/9/2003	1212					3431.21	52.30	3378.91
	12/3/2003	1029					3431.21	52.25	3378.96
	3/30/2004	1406					3431.21	52.31	3378.90
	6/7/2004						3431.21	52.34	3378.87
MW011A	12/18/1997	NR	116.00	117.50	4	2.23	3431.77	51.49	3380.28
	11/16/1999	NR					3431.77	*53.49	3378.28
	5/15/2001	NR					3431.77	53.07	3378.70
	8/23/2001	920					3431.77	53.20	3378.57
	1/21/2002	1149					3431.77	53.04	3378.73
	4/4/2002	1045					3431.77	53.13	3378.64
	9/3/2002	1145					3431.77	53.01	3378.76
	12/2/2002	1430					3431.77	52.76	3379.01
	1/30/2003	1419					3431.77	52.72	3379.05
	3/28/2003	1122					3431.77	52.85	3378.92
	5/19/2003	1505					3431.77	52.78	3378.99
	9/9/2003	1210					3431.77	52.82	3378.95
	12/3/2003	1025					3431.77	52.83	3378.94
	3/30/2004	1410					3431.77	53.04	3378.73
	6/7/2004						3431.77	53.03	3378.74
MW012	11/16/1999	NR	66.50	68.07	4	1.85	3429.51	*51.12	3378.39
	5/15/2001	NR					3429.51	50.50	3379.01
	8/23/2001	1050					3429.51	50.50	3379.01
	1/21/2002	1255					3429.51	50.48	3379.03

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	4/5/2002	1225					3429.51	50.49	3379.02
	9/3/2002	1109					3429.51	50.40	3379.11
	12/2/2002	1313					3429.51	50.25	3379.26
	1/30/2003	1330					3429.51	50.13	3379.38
	3/28/2003	1059					3429.51	50.25	3379.26
	5/19/2003	1450					3429.51	50.15	3379.36
	9/9/2003	1219					3429.51	50.11	3379.40
	12/3/2003	1037					3429.51	50.05	3379.46
	3/30/2004	1413					3429.51	50.18	3379.33
	6/7/2004						3429.51	50.13	3379.38
MW012M	1/21/2002	1255	90.00	91.33	4	2.27	3430.06	50.95	3379.11
	4/5/2002	1225					3430.06	51.37	3378.69
	9/3/2002	1111					3430.06	50.89	3379.17
	12/2/2002	1310					3430.06	50.75	3379.31
	1/30/2003	1333					3430.06	50.65	3379.41
	3/28/2003	1100					3430.06	50.76	3379.30
	5/19/2003	1500					3430.06	50.71	3379.35
	9/9/2003	1217					3430.06	50.63	3379.43
	12/3/2003	1039					3430.06	50.63	3379.43
	3/030/04	1415					3430.06	50.70	3379.36
	6/7/2004						3430.06	50.32	3379.74
MW012A	12/18/1997	NR	116.00	116.08	4	2.18	3429.92	49.73	3380.19
	11/16/1999	NR					3429.92	*51.50	3378.42
	5/15/2001	NR					3429.92	50.83	3379.09
	8/23/2001	1045					3429.92	50.89	3379.03
	1/21/2002	1257					3429.92	50.84	3379.08
	4/5/2002	1225					3429.92	50.90	3379.02
	9/3/2002	1107					3429.92	50.80	3379.12
	12/2/2002	1311					3429.92	50.65	3379.27
	1/30/2003	1328					3429.92	50.55	3379.37
	3/28/2003	1058					3429.92	50.66	3379.26
	5/19/2003	1455					3429.92	50.63	3379.29
	9/9/2003	1221					3429.92	50.52	3379.40
	12/3/2003	1041					3429.92	50.51	3379.41
	3/30/2004	1417					3429.92	50.67	3379.25
	6/7/2004						3429.92	50.52	3379.40

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
MW013	12/18/1997	NR	60.20	60.18	4	-0.53	3424.11	46.98	3377.13
	11/16/1999	NR					3424.11	*44.81	3378.30
	5/15/2001	NR					3424.11	45.05	3379.06
	8/23/2001	1022					3424.11	45.11	3379.00
	1/21/2002	1249					3424.11	45.14	3378.97
	4/5/2002	1245					3424.11	45.22	3378.89
	9/3/2002	1125					3424.11	45.11	3379.00
	12/2/2002	1304					3424.11	44.91	3379.20
	1/30/2003	1546					3424.11	44.84	3379.27
	3/28/2003	1236					3424.11	45.91	3378.20
	5/19/2003	1335					3424.11	44.90	3379.21
	9/9/2003	1053					3424.11	44.89	3379.22
	12/2/2003	1446					3424.11	44.75	3379.36
	3/30/2004	1241					3424.11	44.94	3379.17
	6/7/2004						3424.11	44.98	3379.13
	9/17/2004	1123					3424.11	44.82	3379.29
MW013A	12/18/1997	NR	110.00	105.22	4	-0.39	3424.25	46.84	3377.41
	11/16/1999	NR					3424.25	*45.79	3378.46
	5/15/2001	NR					3424.25	45.06	3379.19
	8/23/2001	1018					3424.25	45.22	3379.03
	1/21/2002	1251					3424.25	45.17	3379.08
	4/5/2002	1245					3424.25	45.23	3379.02
	9/3/2002	1127					3424.25	45.15	3379.10
	12/2/2002	1300					3424.25	44.94	3379.31
	1/30/2003	1537					3424.25	44.80	3379.45
	3/28/2003	1237					3424.25	44.96	3379.29
	5/19/2003	1340					3424.25	44.91	3379.34
	9/9/2003	1055					3424.25	44.89	3379.36
	12/2/2003	1443					3424.25	44.78	3379.47
	3/30/2004	1243					3424.25	45.01	3379.24
	6/7/2004	1243					3424.25	44.96	3379.29
	9/17/2004	1118					3424.25	44.80	3379.45
MW014	11/16/1999	NR	65.00	60.90	4	-0.29	3424.05	45.22	3378.86
	5/15/2001	NR					3424.05	44.61	3379.44
	8/23/2001	1035					3424.05	44.48	3379.57
	1/21/2002	1346					3424.05	44.49	3379.56

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	4/5/2002	1200					3424.05	44.60	3379.45
	9/3/2002	1048					3424.05	44.25	3379.80
	12/2/2002	1215					3424.05	44.24	3379.81
	1/30/2003	1458					3424.05	44.19	3379.86
	3/28/2003	1209					3424.05	44.31	3379.74
	5/19/2003	1305					3424.05	44.25	3379.80
	9/9/2003	940					3424.05	44.18	3379.87
	12/2/2003	1437					3424.05	44.03	3380.02
	3/30/2004	1147					3424.05	44.25	3379.80
	6/7/2004						3424.05	44.18	3379.87
	9/14/2004	1431					3424.05	44.16	3379.89
MW014A	12/18/1997	NR	109.00	105.10	4	-0.32	3423.93	45.93	3378.00
	11/16/1999	NR					3423.93	44.89	3379.01
	5/15/2001	NR					3423.93	44.40	3379.53
	8/23/2001	1028					3423.93	44.27	3379.66
	1/21/2002	1345					3423.93	44.25	3379.68
	4/5/2002	1200					3423.93	44.37	3379.56
	9/3/2002	1050					3423.93	44.20	3379.73
	12/2/2002	1218					3423.93	43.99	3379.94
	1/30/2003	1454					3423.93	43.95	3379.98
	3/28/2003	1210					3423.93	44.16	3379.77
	5/19/2003	1300					3423.93	44.01	3379.92
	9/9/2003	942					3423.93	43.93	3380.00
	12/2/2003	1439					3423.93	43.96	3379.97
	3/30/2004	1149					3423.93	44.05	3379.88
	6/7/2004						3423.93	43.98	3379.95
	9/16/2004	1433					3423.93	43.89	3380.04
MW015	11/16/1999	NR	55.00	54.12	4	-0.34	3420.40	41.46	3378.94
	5/15/2001	NR					3420.40	40.85	3379.55
	8/23/2001	1123					3420.40	40.85	3379.55
	1/21/2002	1311					3420.40	40.81	3379.59
	4/4/2002	1425					3420.40	40.99	3379.41
	9/3/2002	920					3420.40	40.75	3379.65
	12/2/2002	1221					3420.40	40.53	3379.87
	1/30/2003	1520					3420.40	40.51	3379.89
	3/28/2003	1219					3420.40	40.64	3379.76

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	5/19/2003	1320					3420.40	40.56	3379.84
	9/8/2003	1500					3420.40	40.57	3379.83
	12/2/2003	1457					3420.40	40.51	3379.89
	3/30/2004	1202					3420.40	40.81	3379.59
	6/7/2004						3420.40	40.60	3379.80
	9/16/2004	1449					3420.40	40.55	3379.85
MW015A	12/18/1997	NR	103.00	102.15	4	-0.34	3420.55	42.50	3378.05
	11/16/1999	NR					3420.55	41.33	3379.22
	5/15/2001	NR					3420.55	40.69	3379.86
	8/23/2001	1118					3420.55	40.71	3379.84
	1/21/2002	1351					3420.55	40.72	3379.83
	4/4/2002	1425					3420.55	40.89	3379.66
	9/3/2002	915					3420.55	40.66	3379.89
	12/2/2002	1226					3420.55	40.43	3380.12
	1/30/2003	1516					3420.55	40.30	3380.25
	3/28/2003	1218					3420.55	40.54	3380.01
	5/19/2003	1325					3420.55	40.52	3380.03
	9/8/2003	1503					3420.55	40.49	3380.06
	12/2/2003	1459					3420.55	40.42	3380.13
	3/30/2004	1204					3420.55	40.72	3379.83
	6/7/2004						3420.55	40.61	3379.94
	9/16/2004	1501					3420.55	40.44	3380.11
MW016A	12/18/1997	NR	91.60	91.52	4	-0.33	3419.92	41.98	3377.94
	11/16/1999	NR					3419.92	40.80	3379.12
	5/15/2001	NR					3419.92	40.34	3379.58
	8/23/2001	1128					3419.92	40.21	3379.71
	1/21/2002	1356					3419.92	40.33	3379.59
	4/4/2002	1418					3419.92	40.51	3379.41
	9/3/2002	911					3419.92	40.16	3379.76
	12/2/2002	1229					3419.92	39.90	3380.02
	1/30/2003	1526					3419.92	39.89	3380.03
	3/28/2003	1224					3419.92	40.05	3379.87
	5/19/2003	1315					3419.92	40.15	3379.77
	9/8/2003	1454					3419.92	40.11	3379.81
	12/2/2003	1455					3419.92	40.17	3379.75
	3/30/2004						3419.92	40.43	3379.49

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	6/7/2004						3419.92	40.26	3379.66
	9/16/2004	1446					3419.92	39.98	3379.94
MW017A	12/18/1997	NR	106.00	103.50	4	-0.48	3424.38	46.05	3378.33
	11/16/1999	NR					3424.38	45.12	3379.26
	5/15/2001	NR					3424.38	44.53	3379.85
	8/23/2001	1114					3424.38	44.49	3379.89
	1/21/2002	1403					3424.38	44.42	3379.96
	4/4/2002	1435					3424.38	44.58	3379.80
	9/3/2002	1043					3424.38	44.38	3380.00
	12/2/2002	1212					3424.38	44.15	3380.23
	1/30/2003	1446					3424.38	44.10	3380.28
	3/28/2003	1157					3424.38	44.23	3380.15
	5/19/2003	1310					3424.38	44.19	3380.19
	9/8/2003	1512					3424.38	44.13	3380.25
	12/2/2003	1521					3424.38	44.07	3380.31
	3/30/2004	1035					3424.38	44.26	3380.12
	6/7/2004						3424.38	44.21	3380.17
	9/16/2004	1440					3424.38	44.14	3380.24
MW018	5/15/2001	NR	55.00	54.00	4	-0.30	3417.15	37.82	3379.33
	5/15/2001	NR					3417.15	37.90	3379.25
	8/23/2001	1135					3417.15	37.26	3379.89
	1/21/2002	1529					3417.15	37.90	3379.25
	4/4/2002	1400					3417.15	38.15	3379.00
	9/3/2002	925					3417.15	37.34	3379.81
	12/2/2002	1232					3417.15	37.37	3379.78
	1/30/2003	1204					3417.15	37.38	3379.77
	3/28/2003	1305					3417.15	37.66	3379.49
	5/19/2003	1443					3417.15	37.81	3379.34
	9/8/2003	1448					3417.15	37.82	3379.33
	12/2/2003	1320					3417.15	37.99	3379.16
	3/30/2004	1312					3417.15	38.30	3378.85
	6/7/2004						3417.15	37.86	3379.29
	9/16/2004	1250					3417.15	37.48	3379.67
MW018A	12/18/1997	NR	81.55	81.40	4	-0.36	3416.86	39.16	3377.70
	11/16/1999	NR					3416.86	37.52	3379.34
	5/15/2001	NR					3416.86	37.62	3379.24

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	8/23/2001	1140					3416.86	37.55	3379.31
	1/21/2002	1530					3416.86	37.62	3379.24
	4/4/2002	1400					3416.86	37.89	3378.97
	9/3/2002	930					3416.86	37.03	3379.83
	12/2/2002	1236					3416.86	37.01	3379.85
	1/30/2003	1206					3416.86	37.12	3379.74
	3/28/2003	1308					3416.86	37.38	3379.48
	5/19/2003	1439					3416.86	37.54	3379.32
	9/8/2003	1446					3416.86	37.51	3379.35
	12/2/2003	1323					3416.86	37.65	3379.21
	3/30/2004	1314					3416.86	38.01	3378.85
	6/7/2004						3416.86	37.56	3379.30
	9/16/2004	1256					3416.86	37.20	3379.66
MW019A	12/18/1997	NR	72.40	72.15	4	-0.37	3414.74	39.83	3374.91
	11/16/1999	NR					3414.74	38.12	3376.62
	5/15/2001	NR					3414.74	38.02	3376.72
	8/23/2001	1145					3414.74	37.62	3377.12
	1/21/2002	1300					3414.74	37.92	3376.82
	4/4/2002	NR					3414.74	38.15	3376.59
	9/3/2002	935					3414.74	37.40	3377.34
	12/2/2002	NR					3414.74	37.46	3377.28
	1/30/2003	1129					3414.74	37.61	3377.13
	3/28/2003	1317					3414.74	37.79	3376.95
	5/19/2003	1434					3414.74	37.91	3376.83
	9/8/2003	1436					3414.74	38.06	3376.68
	12/2/2003	1301					3414.74	38.22	3376.52
	3/30/2004	1303					3414.74	38.41	3376.33
	6/7/2004						3414.74	37.93	3376.81
	9/16/2004	1212					3414.74	37.82	3376.92
MW020	11/16/1999	NR	55.00	57.95	4	2.26	3420.85	44.58	3376.27
	2/6/2002	1135					3420.85	44.02	3376.83
	9/3/2002	1045					3420.85	43.79	3377.06
	12/9/2002	NR					3420.85	43.84	3377.01
	1/30/2003	1140					3420.85	43.78	3377.07
	3/28/2003	1324					3420.85	43.86	3376.99
	6/5/2003	1200					3420.85	43.93	3376.92

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	1/22/2004	905					3420.85	44.39	3376.46
	3/30/2004	1525					3420.85	44.41	3376.44
	6/7/2004						3420.85	44.16	3376.69
	9/17/2004	1412					3420.85	43.99	3376.86
MW020A	11/16/1999	NR	81.00	80.40	4	2.53	3421.14	44.70	3376.44
	2/6/2002	1020					3421.14	44.14	3377.00
	9/3/2002	925					3421.14	43.98	3377.16
	12/9/2002	NR					3421.14	44.06	3377.08
	1/30/2003	1136					3421.14	43.98	3377.16
	3/28/2003	1325					3421.14	44.05	3377.09
	6/5/2003	1305					3421.14	44.44	3376.70
	1/22/2004	44.68					3421.14	44.68	3376.46
	3/30/2004	1523					3421.14	44.59	3376.55
	6/7/2004						3421.14	44.33	3376.81
	9/17/2004	1414					3421.14	44.15	3376.99
MW021	11/16/1999	NR	60.00	62.43	4	2.22	3422.72	47.82	3374.90
	5/15/2001	NR					3422.72	47.09	3375.63
	8/23/2001	1009					3422.72	47.34	3375.38
	1/21/2002	1311					3422.72	47.19	3375.53
	4/4/2002	1345					3422.72	47.35	3375.37
	9/3/2002	1020					3422.72	47.25	3375.47
	12/2/2002	1128					3422.72	47.01	3375.71
	1/30/2003	1040					3422.72	46.98	3375.74
	3/28/2003	1438					3422.72	47.02	3375.70
	5/19/2003	1220					3422.72	47.09	3375.63
	9/8/2003	1323					3422.72	47.21	3375.51
	1/21/2004	1433					3422.72	47.22	3375.50
	3/30/2004	1544					3422.72	47.21	3375.51
	6/7/2004						3422.72	47.45	3375.27
	9/17/2004	1412					3422.72	47.15	3375.57
MW021A	11/16/1999	NR	81.00	87.65	4	2.16	3422.94	48.41	3374.53
	5/15/2001	NR					3422.94	47.57	3375.37
	8/23/2001	1005					3422.94	47.98	3374.96
	1/21/2002	1310					3422.94	47.83	3375.11
	4/4/2002	1345					3422.94	47.98	3374.96
	9/3/2002	1025					3422.94	48.07	3374.87

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	12/2/2002	1126					3422.94	47.63	3375.31
	1/30/2003	1045					3422.94	47.61	3375.33
	3/28/2003	1436					3422.94	47.71	3375.23
	5/19/2003	1225					3422.94	47.96	3374.98
	9/8/2003	1325					3422.94	48.01	3374.93
	1/21/2004	1435					3422.94	48.73	3374.21
	3/30/2004	1545					3422.94	47.94	3375.00
	6/7/2004						3422.94	48.28	3374.66
	9/14/2004	1408					3422.94	47.95	3374.99
MW022A	11/16/1999	NR	105.00	102.71	4	2.31	3431.13	57.29	3373.84
	5/15/2001	NR					3431.13	53.35	3377.78
	8/23/2001	1344					3431.13	53.96	3377.17
	1/21/2002	1202					3431.13	53.75	3377.38
	4/4/2002	1005					3431.13	66.00	3365.13
	9/3/2002	1136					3431.13	52.96	3378.17
	12/2/2002	1456					3431.13	52.95	3378.18
	1/31/2003	924					3431.13	53.25	3377.88
	3/28/2003	938					3431.13	53.58	3377.55
	5/19/2003	1624					3431.13	53.26	3377.87
	9/9/2003	1134					3431.13	66.99	3364.14
	12/3/2003	922					3431.13	66.97	3364.16
	3/30/2004	1318					3431.13	64.08	3367.05
	6/7/2004						3431.13	61.36	3369.77
	9/17/2004	1003					3431.13	53.22	3377.91
MW023	11/16/1999	NR	67.00	69.10	4	2.09	3436.44	58.42	3378.02
	5/15/2001	NR					3436.44	57.73	3378.71
	8/23/2001	1435					3436.44	57.79	3378.65
	2/7/2002	1110					3436.44	57.77	3378.67
	9/3/2002	1210					3436.44	57.69	3378.75
	12/2/2002	1426					3436.44	57.46	3378.98
	1/30/2003	1339					3436.44	57.41	3379.03
	3/28/2003	1108					3436.44	57.50	3378.94
	5/19/2003	1440					3436.44	57.41	3379.03
	9/9/2003	1102					3436.44	57.39	3379.05
	12/2/2003	1532					3436.44	57.14	3379.30
	3/30/2004	858					3436.44	57.34	3379.10

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	6/7/2004						3436.44	57.21	3379.23
	9/17/2004	946					3436.44	57.34	3379.10
MW023A	1/9/2003	NR	120.00	123.80	4	2.25	3436.26	57.70	3378.56
	1/30/2003	1342					3436.26	57.23	3379.03
	3/28/2003	1111					3436.26	57.33	3378.93
	5/19/2003	1445					3436.26	57.25	3379.01
	9/9/2003	1100					3436.26	53.23	3383.03
	12/2/2003	1535					3436.26	57.23	3379.03
	3/30/2004	901					3436.26	57.25	3379.01
	6/7/2004						3436.26	57.35	3378.91
	9/17/2004	948					3436.26	57.14	3379.12
MW024	1/9/2003	NR	86.00	89.60	4	2.34	3431.32	53.76	3377.56
	1/29/2003	1405					3431.32	53.64	3377.68
	3/27/2003	1350					3431.32	53.85	3377.47
	5/19/2003	1145					3431.32	53.77	3377.55
	9/9/2003	1030					3431.32	53.93	3377.39
	12/2/2003	1345					3431.32	53.86	3377.46
	3/30/2004	758					3431.32	54.10	3377.22
	6/7/2004						3431.32	54.21	3377.11
	9/16/2004	1639					3431.32	53.71	3377.61
MW024A	11/16/1999	NR	105.00	101.00	4	1.54	3430.77	54.30	3376.47
	5/15/2001	NR					3430.77	53.32	3377.45
	8/23/2001	1445					3430.77	53.86	3376.91
	2/6/2002	1525					3430.77	53.42	3377.35
	9/3/2002	955					3430.77	53.26	3377.51
	12/2/2002	1341					3430.77	53.03	3377.74
	1/29/2003	1408					3430.77	53.11	3377.66
	3/27/2003	1353					3430.77	53.31	3377.46
	5/19/2003	1150					3430.77	53.22	3377.55
	9/9/2003	1031					3430.77	53.73	3377.04
	12/2/2003	1347					3430.77	53.69	3377.08
	3/30/2004	801					3430.77	53.87	3376.90
	6/7/2004						3430.77	53.89	3376.88
	9/16/2004	1635					3430.77	53.11	3377.66
MW025	11/16/1999	NR	65.00	66.20	4	-0.25	3432.69	53.23	3379.41
	5/15/2001	NR					3432.69	53.24	3379.45

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	8/23/2001	1054					3432.69	53.02	3379.67
	1/21/2002	1339					3432.69	53.03	3379.66
	4/5/2002	1205					3432.69	53.17	3379.52
	9/3/2002	1057					3432.69	53.01	3379.68
	12/2/2002	1207					3432.69	52.83	3379.86
	1/29/2003	1313					3432.69	52.80	3379.89
	3/28/2003	1509					3432.69	52.86	3379.83
	5/19/2003	1635					3432.69	52.59	3380.10
	9/9/2003	933					3432.69	52.62	3380.07
	12/2/2003	1431					3432.69	52.55	3380.14
	3/30/2004	1027					3432.69	52.70	3379.99
	6/7/2004						3432.69	52.62	3380.07
	9/16/2004	1506					3432.69	52.48	3380.21
MW026	11/16/1999	NR	67.00	62.78	4	-0.55	3432.04	52.95	3379.09
	5/15/2001	NR					3432.04	52.08	3379.96
	8/23/2001	1110					3432.04	52.06	3379.98
	1/21/2002	1407					3432.04	51.91	3380.13
	4/4/2002	1440					3432.04	52.00	3380.04
	9/3/2002	1031					3432.04	51.99	3380.05
	12/2/2002	1140					3432.04	51.60	3380.44
	1/30/2003	1434					3432.04	51.43	3380.61
	3/28/2003	1203					3432.04	51.62	3380.42
	5/19/2003	1250					3432.04	51.52	3380.52
	9/8/2003	1507					3432.04	51.64	3380.40
	12/2/2003	1515					3432.04	51.49	3380.55
	3/30/2004	1139					3432.04	51.70	3380.34
	6/7/2004						3432.04	51.69	3380.35
	9/16/2004	1420					3432.04	51.62	3380.42
MW027	11/16/1999	NR	71.50	71.52	4	-0.45	3443.33	64.65	3378.68
	5/15/2001	NR					3443.33	64.09	3379.24
	8/23/2001	1059					3443.33	63.82	3379.51
	1/21/2002	1412					3443.33	63.87	3379.46
	4/4/2002	1445					3443.33	63.90	3379.43
	9/3/2002	1015					3443.33	63.90	3379.43
	12/2/2002	1144					3443.33	63.64	3379.69
	1/30/2003	1306					3443.33	63.59	3379.74

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	3/27/2003	1535					3443.33	63.49	3379.84
	5/19/2003	1245					3443.33	63.63	3379.70
	9/8/2003	1518					3443.33	63.58	3379.75
	12/2/2003	1505					3443.33	63.48	3379.85
	3/30/2004	1013					3443.33	63.62	3379.71
	6/7/2004						3443.33	63.67	3379.66
	9/16/2004	1407					3443.33	63.55	3379.78
MW028	11/16/1999	NR	85.00	85.15	4	1.59	3451.63	73.52	3378.11
	5/15/2001	NR					3451.63	72.89	3378.74
	8/23/2001	1105					3451.63	72.86	3378.77
	1/21/2002	1518					3451.63	72.75	3378.88
	4/5/2002	1145					3451.63	72.77	3378.86
	9/3/2002	1007					3451.63	72.71	3378.92
	12/2/2002	1152					3451.63	72.55	3379.08
	1/29/2003	1335					3451.63	72.51	3379.12
	3/28/2003	1038					3451.63	72.58	3379.05
	5/19/2003	1625					3451.63	72.52	3379.11
	9/9/2003	900					3451.63	72.53	3379.10
	1/28/2004	NR					3451.63	72.53	3379.10
	3/30/2004	1557					3451.63	72.36	3379.27
	6/7/2004						3451.63	72.25	3379.38
	9/17/2004	1348					3451.63	72.28	3379.35
MW029	11/16/1999	NR	80.00	81.45	4	2.14	3446.89	68.62	3378.27
	5/15/2001	NR					3446.89	68.12	3378.77
	8/30/2001	1453					3446.89	68.47	3378.42
	2/6/2002	1545					3446.89	67.97	3378.92
	9/3/2002	1000					3446.89	67.86	3379.03
	12/2/2002	1328					3446.89	67.70	3379.19
	1/29/2003	1350					3446.89	67.73	3379.16
	3/27/2003	1433					3446.89	67.66	3379.23
	5/19/2003	1215					3446.89	67.63	3379.26
	9/9/2003	1007					3446.89	67.68	3379.21
	12/2/2003	1402					3446.89	67.59	3379.30
	3/30/2004	845					3446.89	67.50	3379.39
	6/7/2004						3446.89	67.53	3379.36
	6/16/2004	1542					3446.89	67.49	3379.40

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
MW030	4/24/2002	1256	77.00	77.41	4	2.3	3439.84	61.42	3378.42
	5/7/2002	815					3439.84	61.30	3378.54
	9/3/2002	955					3439.84	61.39	3378.45
	12/2/2002	1333					3439.84	61.18	3378.66
	1/29/2003	1355					3439.84	61.80	3378.04
	3/27/2003	1425					3439.84	61.14	3378.70
	5/19/2003	1205					3439.84	61.16	3378.68
	9/9/2003	1010					3439.84	61.16	3378.68
	12/2/2003	1356					3439.84	61.06	3378.78
	3/30/2004	833					3439.84	61.04	3378.80
	6/7/2004						3439.84	61.03	3378.81
	9/17/2004	1356					3439.84	61.06	3378.78
MW031	4/25/2002	1035	76.00	77.21	4	2.4	3440.68	61.80	3378.88
	5/7/2002	825					3440.68	61.85	3378.83
	9/3/2002	1009					3440.68	61.88	3378.8
	12/2/2002	1325					3440.68	61.73	3378.95
	1/29/2003	1345					3440.68	61.71	3378.97
	3/27/2003	1440					3440.68	61.65	3379.03
	5/19/2003	1220					3440.68	61.67	3379.01
	9/9/2003	953					3440.68	61.68	3379
	12/2/2003	1407					3440.67	61.50	3379.168
	3/30/2004	912					3440.67	61.53	3379.138
	6/7/2004						3440.67	61.51	3379.158
	9/16/2004	1530					3440.67	61.48	3379.19
MW032	4/4/2002	NR	68.00	69.25	4	-0.48	3442.22	62.71	3379.51
	9/3/2002	1020					3442.22	62.61	3379.61
	12/2/2002	1200					3442.22	62.40	3379.82
	1/31/2003	1114					3442.22	62.55	3379.67
	3/27/2003	1524					3442.22	62.32	3379.90
	5/19/2003	1240					3442.22	62.37	3379.85
	9/9/2003	840					3442.22	62.38	3379.84
	12/2/2003	1508					3442.22	62.23	3379.99
	3/30/2004	1004					3442.22	62.30	3379.92
	6/7/2004						3442.22	62.28	3379.94
	9/16/2004	1413					3442.22	62.14	3380.08
MW033	4/4/2002	NR	62.00	63.50	4	-0.20	3428.86	48.95	3379.91
	9/3/2002	1037					3428.86	48.86	3380.00

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Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	12/5/2002	NR					3428.86	48.76	3380.10
	1/31/2003	1140					3428.86	48.63	3380.23
	3/27/2003	1547					3428.86	48.50	3380.36
	5/19/2003	1045					3428.86	48.63	3380.23
	9/9/2003	1308					3428.86	48.59	3380.27
	12/3/2003	1151					3428.86	48.69	3380.17
	3/30/2004	1403					3428.86	49.78	3379.08
	6/7/2004						3428.86	48.64	3380.22
	9/16/2004	1427					3428.86	48.51	3380.35
MW034	4/4/2002	NR	62.00	63.10	4	-0.48	3418.76	43.49	3375.27
	9/3/2002	955					3418.76	43.43	3375.33
	12/2/2002	1114					3418.76	43.24	3375.52
	1/30/2003	1151					3418.76	43.31	3375.45
	3/28/2003	1420					3418.76	43.20	3375.56
	5/19/2003	1503					3418.76	43.24	3375.52
	9/8/2003	1418					3418.76	43.43	3375.33
	12/2/2003	1209					3418.76	43.37	3375.39
	3/30/2004	1103					3418.76	43.55	3375.21
	6/7/2004						3418.76	43.50	3375.26
	9/16/2004	1238					3418.76	43.41	3375.35
MW035	8/23/2001	1354	62.00	65.60	4	2.47	3427.39	50.49	3376.90
	1/21/2002	1208					3427.39	50.45	3376.94
	4/4/2002	935					3427.39	50.58	3376.81
	9/3/2002	1150					3427.39	50.04	3377.35
	12/2/2002	1516					3427.39	50.03	3377.36
	1/31/2003	947					3427.39	50.03	3377.36
	3/28/2003	922					3427.39	50.19	3377.2
	5/19/2003	1558					3427.39	50.24	3377.15
	9/9/2003	1120					3427.39	50.35	3377.04
	12/3/2003	830					3427.39	50.32	3377.07
	3/30/2004	1251					3427.39	50.52	3376.87
	6/7/2004						3427.39	50.51	3376.88
	9/17/2004	1028					3427.39	49.98	3377.41
MW036	8/23/2001	1405	62.00	62.64	4	-0.35	3425.49	48.36	3377.13
	1/21/2002	1211					3425.49	48.22	3377.27
	4/4/2002	940					3425.49	48.24	3377.25

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	9/3/2002	1220					3425.49	47.75	3377.74
	12/2/2002	1520					3425.49	47.78	3377.71
	1/31/2003	958					3425.49	47.84	3377.65
	3/28/2003	918					3425.49	47.91	3377.58
	5/19/2003	1554					3425.49	47.96	3377.53
	9/9/2003	1249					3425.49	48.12	3377.37
	12/3/2003	1102					3425.49	48.22	3377.27
	3/30/2004	1418					3425.49	48.37	3377.12
	6/7/2004						3425.49	48.32	3377.17
	9/17/2004	1034					3425.49	47.86	3377.63
MW037	8/23/2001	1420	62.00	61.72	4	-0.37	3423.71	46.60	3377.11
	1/21/2002	1232					3423.71	46.59	3377.12
	4/4/2002	1150					3423.71	46.62	3377.09
	9/3/2002	1225					3423.71	46.07	3377.64
	12/2/2002	1533					3423.71	46.17	3377.54
	1/31/2003	830					3423.71	46.28	3377.43
	3/28/2003	1504					3423.71	46.29	3377.42
	5/19/2003	1405					3423.71	46.39	3377.32
	9/9/2003	1303					3423.71	46.52	3377.19
	12/3/2003	1053					3423.71	46.46	3377.25
	3/30/2004	1413					3423.71	47.76	3375.95
	6/7/2004						3423.71	46.64	3377.07
	9/17/2004	1134					3423.71	46.18	3377.53
MW038	8/23/2001	1415	62.00	61.98	4	-0.34	3425.23	47.85	3377.38
	1/21/2002	1213					3425.23	47.69	3377.54
	4/4/2002	955					3425.23	47.81	3377.42
	9/3/2002	1230					3425.23	47.43	3377.8
	12/2/2002	1522					3425.23	47.30	3377.93
	1/31/2003	1003					3425.23	47.41	3377.82
	3/28/2003	912					3425.23	47.51	3377.72
	5/19/2003	1522					3425.23	47.42	3377.81
	9/9/2003	1259					3425.23	47.61	3377.62
	12/3/2003	1107					3425.23	47.72	3377.51
	3/30/2004	1427					3425.23	47.80	3377.43
	6/7/2004						3425.23	47.76	3377.47
	9/17/2004	1224					3425.23	47.44	3377.79

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
MW039A	8/23/2001	1330	118.00	119.59	4	2.36	3435.71	57.85	3377.86
	1/21/2002	1153					3435.71	57.62	3378.09
	4/4/2002	1030					3435.71	57.71	3378
	9/3/2002	1155					3435.71	57.47	3378.24
	12/2/2002	1419					3435.71	57.20	3378.51
	1/30/2003	1403					3435.71	57.20	3378.51
	3/28/2003	1131					3435.71	57.40	3378.31
	5/19/2003	1530					3435.71	57.27	3378.44
	9/9/2003	1109					3435.71	57.43	3378.28
	12/2/2003	1558					3435.71	57.32	3378.39
	3/30/2004	1329					3435.71	57.43	3378.28
	6/7/2004						3435.71	57.52	3378.19
	9/17/2004	954					3435.71	57.22	3378.49
MW040A	4/4/2002	NR	110.00	110.10	4	-0.48	3422.92	43.70	3379.22
	9/3/2002	945					3422.92	43.90	3379.02
	12/2/2002	1258					3422.92	43.71	3379.21
	1/31/2003	1046					3422.92	43.71	3379.21
	3/28/2003	1233					3422.92	43.71	3379.21
	5/19/2003	1330					3422.92	43.69	3379.23
	9/9/2003	1051					3422.92	43.69	3379.23
	12/2/2003	1448					3422.92	43.68	3379.24
	3/30/2004	1234					3422.92	43.84	3379.08
	6/7/2004						3422.92	43.97	3378.95
	9/17/2004	1129					3422.92	43.70	3379.22
MW041A	4/29/2002	800	90.00	88.00	4	-0.25	3418.42	43.22	3375.2
	5/7/2002	NR					3418.42	43.12	3375.3
	9/3/2002	950					3418.42	43.30	3375.12
	12/2/2002	1112					3418.42	43.04	3375.38
	1/30/2003	1146					3418.42	43.19	3375.23
	3/28/2003	1421					3418.42	43.01	3375.41
	5/19/2003	1500					3418.42	43.08	3375.34
	9/8/2003	1416					3418.42	43.23	3375.19
	12/2/2003	1206					3418.42	43.23	3375.19
	3/30/2004	1109					3418.42	43.38	3375.04
	6/7/2004						3418.42	43.33	3375.09
	9/16/2004	1240					3418.42	43.24	3375.18

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ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
MW042A	8/23/2001	1400	102.00	99.47	4	-0.39	3424.75	46.26	3378.49
	1/21/2002	1209					3424.75	48.30	3376.45
	4/4/2002	930					3424.75	48.17	3376.58
	9/3/2002	1151					3424.75	47.86	3376.89
	12/2/2002	1514					3424.75	47.75	3377
	1/31/2003	945					3424.75	47.65	3377.1
	3/28/2003	925					3424.75	47.84	3376.91
	5/19/2003	1603					3424.75	47.84	3376.91
	9/9/2003	1122					3424.75	48.04	3376.71
	12/3/2003	833					3424.75	48.00	3376.75
	3/30/2004	1254					3424.75	48.31	3376.44
	6/7/2004						3424.75	48.42	3376.33
	9/17/2004	1026					3424.75	48.58	3376.17
MW043	5/7/2002	810	62.00	65.00	4	1.98	3423.57	47.61	3375.96
	9/3/2002	1015					3423.57	47.53	3376.04
	12/2/2002	1122					3423.57	47.42	3376.15
	1/30/2003	1048					3423.57	47.38	3376.19
	3/28/2003	1442					3423.57	47.44	3376.13
	5/19/2003	1229					3423.57	47.50	3376.07
	9/8/2003	1331					3423.57	47.64	3375.93
	12/2/2003	1054					3423.57	47.55	3376.02
	3/30/2004	1009					3423.57	47.84	3375.73
	6/7/2004						3423.57	47.82	3375.75
	9/14/2004	1418					3423.57	47.44	3376.13
MW044	4/4/2002	NR	60.00	61.50	4	-0.40	3420.41	43.86	3376.55
	9/3/2002	1010					3420.41	43.52	3376.89
	12/2/2002	1118					3420.41	43.47	3376.94
	1/30/2003	1155					3420.41	43.68	3376.73
	3/28/2003	1415					3420.41	43.49	3376.92
	5/19/2003	1509					3420.41	43.58	3376.83
	9/8/2003	1421					3420.41	43.69	3376.72
	12/2/2003	1213					3420.41	43.65	3376.76
	3/30/2004	1115					3420.41	43.90	3376.51
	6/7/2004						3420.41	43.88	3376.53
	9/16/2004	1249					3420.41	43.49	3376.92
MW045	4/4/2002	912	66.00	66.56	4	-0.16	3425.53	48.57	3376.96

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ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	9/3/2002	1146					3425.53	48.15	3377.38
	12/2/2002	1509					3425.53	47.94	3377.59
	1/31/2003	941					3425.53	48.08	3377.45
	3/28/2003	929					3425.53	48.31	3377.22
	5/19/2003	1611					3425.53	48.11	3377.42
	9/9/2003	1125					3425.53	48.34	3377.19
	12/3/2003	848					3425.53	48.37	3377.16
	3/30/2004	1301					3425.53	48.44	3377.09
	6/7/2004						3425.53	48.61	3376.92
	9/17/2004	1016					3425.53	48.10	3377.43
MW046	4/4/2002	855	66.00	67.00	4	-0.43	3426.81	49.93	3376.88
	9/3/2002	1143					3426.81	49.37	3377.44
	12/2/2002	1502					3426.81	49.17	3377.64
	1/31/2003	930					3426.81	49.33	3377.48
	3/28/2003	933					3426.81	49.66	3377.15
	5/19/2003	1620					3426.81	49.35	3377.46
	9/9/2003	1129					3426.81	49.67	3377.14
	12/3/2003	852					3426.81	49.75	3377.06
	3/30/2004	1309					3426.81	49.82	3376.99
	6/7/2004						3426.81	50.05	3376.76
	9/17/2004	1011					3426.81	49.33	3377.48
MW046A	1/7/2003	1205	107.00	107.80	4	-0.49	3426.45	50.09	3376.36
	1/31/2003	933					3426.45	48.81	3377.64
	3/28/2003	934					3426.45	49.06	3377.39
	5/19/2003	1616					3426.45	48.88	3377.57
	9/9/2003	1131					3426.45	50.48	3375.97
	12/3/2003	858					3426.45	50.54	3375.91
	3/30/2004	1307					3426.45	50.33	3376.12
	6/7/2004						3426.45	50.20	3376.25
	9/17/2004	1013					3426.45	48.83	3377.62
MW047	4/4/2002	1130	66.00	64.95	4	-0.45	3427.65	49.54	3378.11
	9/3/2002	1215					3427.65	49.40	3378.25
	12/2/2002	1412					3427.65	49.16	3378.49
	1/31/2003	856					3427.65	49.22	3378.43
	3/28/2003	1009					3427.65	49.29	3378.36
	5/19/2003	1635					3427.65	49.21	3378.44

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	9/9/2003	1146					3427.65	49.36	3378.29
	12/3/2003	1057					3427.65	49.38	3378.27
	3/30/2004	1341					3427.65	49.50	3378.15
	6/7/2004						3427.65	49.43	3378.22
	9/17/2004	1210					3427.65	49.20	3378.45
MW048SA	8/1/2002	1115	82.00	86.00	4	2.34	3421.10	46.45	3374.65
	9/3/2002	1000					3421.10	46.40	3374.7
	12/2/2002	1103					3421.10	46.26	3374.84
	1/30/2003	1115					3421.10	46.18	3374.92
	3/28/2003	1341					3421.10	46.15	3374.95
	5/19/2003	1321					3421.10	46.19	3374.91
	9/8/2003	1412					3421.1	46.44	3374.66
	12/2/2003	1103					3421.1	46.45	3374.65
	3/30/2004	1101					3421.1	46.62	3374.48
	6/7/2004						3421.1	46.48	3374.62
	9/16/2004	1221					3421.1	46.43	3374.67
MW049SA	7/30/2002	1140	82.00	85.00	4	2.32	3422.46	49.31	3373.15
	9/3/2002	1005					3422.46	49.29	3373.17
	12/2/2002	1105					3422.46	49.18	3373.28
	1/30/2003	1112					3422.46	49.13	3373.33
	3/28/2003	1345					3422.46	49.09	3373.37
	5/19/2003	1317					3422.46	49.08	3373.38
	9/8/2003	1409					3422.46	49.32	3373.14
	12/2/2003	1058					3422.46	49.32	3373.14
	3/30/2004	1058					3422.46	49.42	3373.04
	6/7/2004						3422.46	48.57	3373.89
	9/16/2004	1224					3422.46	49.36	3373.1
MW050SA	7/30/2002	1000	78.00	81.00	4	1.75	3419.31	46.30	3373.01
	9/3/2002	1030					3419.31	46.19	3373.12
	12/2/2002	1133					3419.31	45.93	3373.38
	1/30/2003	1030					3419.31	45.92	3373.39
	3/28/2003	1430					3419.31	45.92	3373.39
	5/19/2003	1214					3419.31	46.01	3373.3
	9/8/2003	1335					3419.31	46.13	3373.18
	12/2/2003	1050					3419.31	46.05	3373.26
	3/30/2004	1006					3419.31	46.15	3373.16

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	6/7/2004						3419.31	46.18	3373.13
	9/14/2004	1402					3419.31	46.18	3373.13
MW051SA	10/10/2002	925	65.00	66.00	4	2.00	3415.42	44.50	3370.92
	12/2/2002	1058					3415.42	44.43	3370.99
	1/30/2003	1055					3415.42	44.38	3371.04
	3/28/2003	1411					3415.42	44.39	3371.03
	5/19/2003	1308					3415.42	44.40	3371.02
	9/8/2003	1341					3415.42	44.55	3370.87
	12/2/2003	1123					3415.42	44.53	3370.89
	3/30/2004	1053					3415.42	44.59	3370.83
	6/7/2004						3415.42	44.53	3370.89
	9/14/2004	1427					3415.42	44.58	3370.84
MW052SA	10/10/2002	1110	65.00	66.50	4	2.31	3415.23	45.45	3369.78
	12/2/2002	1053					3415.23	45.39	3369.84
	1/30/2003	1105					3415.23	45.35	3369.88
	3/28/2003	1406					3415.23	45.36	3369.87
	5/19/2003	1305					3415.23	45.28	3369.95
	9/8/2003	1407					3415.23	45.51	3369.72
	12/2/2003	1132					3415.23	45.52	3369.71
	3/30/2004	1048					3415.23	45.58	3369.65
	6/7/2004						3415.23	45.85	3369.38
	9/14/2004	1436					3415.23	45.58	3369.65
MW053SA	9/18/2002	945	65.00	68.29	4	2.48	3413.86	42.93	3370.93
	12/2/2002	NR					3413.86	42.80	3371.06
	1/30/2003	1123					3413.86	42.68	3371.18
	3/28/2003	1331					3413.86	42.68	3371.18
	5/19/2003	1425					3413.86	42.65	3371.21
	9/8/2003	1440					3413.86	43.09	3370.77
	12/2/2003	1306					3413.86	43.12	3370.74
	3/30/2004	1300					3413.86	43.15	3370.71
	6/7/2004						3413.86	43.04	3370.82
	9/16/2004	1155					3413.86	43.09	3370.77
MW054SA	1/30/2003	1100	60.00	60.10	4	2.31	3411.38	45.21	3366.17
	3/28/2003	1400					3411.38	45.09	3366.29
	5/19/2003	1258					3411.38	45.09	3366.29
	9/8/2003	1401					3411.38	45.43	3365.95

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	12/2/2003	1135					3411.38	45.41	3365.97
	3/30/2004	1044					3411.38	45.46	3365.92
	6/7/2004						3411.38	45.37	3366.01
	9/14/2004	1443					3411.38	42.48	3368.9
MW055SA	1/6/2003	NR	50.00	53.20	4	2.35	3407.43	41.20	3366.23
	1/30/2003	NR					3407.43	41.00	3366.43
	3/27/2003	1343					3407.43	41.15	3366.28
	5/19/2003	1159					3407.43	41.00	3366.43
	9/8/2003	1310					3407.43	41.13	3366.3
	12/2/2003	41.09					3407.43	41.09	3366.34
	3/30/2004	938					3407.43	41.12	3366.31
	6/7/2004						3407.43	41.02	3366.41
	9/14/2004	1159					3407.43	41.18	3366.25
MW056SA	1/7/2003	NR	52.00	55.02	4	2.30	3410.71	46.32	3364.39
	1/30/2003	1015					3410.71	46.21	3364.5
	3/28/2003	1451					3410.71	46.20	3364.51
	5/19/2003	1154					3410.71	46.18	3364.53
	9/8/2003	1313					3410.71	46.31	3364.4
	12/2/2003	959					3410.71	46.33	3364.38
	3/30/2004	942					3410.71	46.40	3364.31
	6/7/2004						3410.71	46.31	3364.4
	9/14/2004	1206					3410.71	46.38	3364.33
MW057SA	1/30/2003	1020	70.00	71.20	4	2.36	3417.74	46.33	3371.41
	3/28/2003	1459					3417.74	46.45	3371.29
	5/19/2003	1150					3417.74	46.59	3371.15
	9/8/2003	1318					3417.74	46.72	3371.02
	12/2/2003	1004					3417.74	46.65	3371.09
	3/30/2004	1000					3417.74	46.70	3371.04
	6/7/2004						3417.74	46.75	3370.99
	9/14/2004	1353					3417.74	46.58	3371.16
MW058	1/31/2003	1120	114.00	111.85	4	2.12	3437.13	58.49	3378.64
	3/27/2003	1428					3437.13	58.49	3378.64
	5/19/2003	1210					3437.13	58.52	3378.61
	9/9/2003	1013					3437.13	58.57	3378.56
	12/2/2003	1359					3437.13	58.44	3378.69
	3/30/2004	837					3437.13	58.51	3378.62

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	6/7/2004						3437.13	58.50	3378.63
	9/16/2004	1548					3437.13	58.42	3378.71
MW059	1/31/2003	1125	113.00	107.09	4	2.19	3442.22	63.28	3378.94
	3/28/2003	1105					3442.22	63.23	3378.99
	5/19/2003	1430					3442.22	63.15	3379.07
	9/9/2003	1106					3442.22	63.15	3379.07
	12/2/2003	1538					3442.22	63.05	3379.17
	3/30/2004	851					3442.22	63.06	3379.16
	6/7/2004						3442.22	63.00	3379.22
	9/17/2004	938					3442.22	63.03	3379.19
MW060	1/8/2003	NR	100.00	102.60	4	2.56	3437.70	58.62	3379.08
	1/30/2003	NR					3437.70	58.38	3379.32
	3/28/2003	1046					3437.70	58.45	3379.25
	5/19/2003	1620					3437.70	58.39	3379.31
	9/9/2003	1002					3437.7	58.34	3379.36
	12/2/2003	1421					3437.7	58.15	3379.55
	3/30/2004	927					3437.7	58.20	3379.5
	6/7/2004						3437.7	58.19	3379.51
	9/16/2004	1535					3437.7	58.12	3379.58
MW061	1/8/2003	NR	108.50	111.75	4	2.19	3439.86	60.23	3379.63
	3/27/2003	1516					3439.86	60.20	3379.66
	5/19/2003	1230					3439.86	60.26	3379.6
	9/9/2003	930					3439.86	60.18	3379.68
	12/2/2003	1426					3439.86	60.00	3379.86
	3/30/2004	944					3439.86	60.12	3379.74
	6/7/2004						3439.86	60.06	3379.8
	9/16/2004	1518					3439.86	59.93	3379.93
MW062A	1/31/2003	1040	108.00	111.00	4	1.65	3434.19	57.13	3377.06
	3/27/2003	1358					3434.19	57.16	3377.03
	5/19/2003	1140					3434.19	57.19	3377
	9/9/2003	1026					3434.19	57.29	3376.9
	12/2/2003	1338					3434.19	57.17	3377.02
	3/30/2004	807					3434.19	57.35	3376.84
	6/7/2004						3434.19	57.40	3376.79
	9/16/2004	1631					3434.19	57.18	3377.01
MW063A	1/31/2003	1036	106.00	108.50	4	1.96	3435.22	57.89	3377.33

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	3/27/2003	1401					3435.22	57.80	3377.42
	5/19/2003	1130					3435.22	57.82	3377.4
	9/9/2003	1023					3435.22	57.89	3377.33
	12/2/2003	1342					3435.22	57.78	3377.44
	3/30/2004	813					3435.22	57.97	3377.25
	6/7/2004						3435.22	57.93	3377.29
	9/16/2004	1608					3435.22	57.81	3377.41
MW064SA	3/27/2003	1337	75.00	77.71	4	2.21	3405.15	54.20	3350.95
	5/19/2003	1254					3405.15	54.22	3350.93
	9/8/2003	1258					3405.15	54.27	3350.88
	12/2/2003	952					3405.15	54.35	3350.8
	3/30/2004	834					3405.15	54.39	3350.76
	6/7/2004						3405.15	54.40	3350.75
	9/14/2004	1135					3405.15	54.36	3350.79
MW065SA	3/27/2003	1330	80.00	82.50	4	2.04	3402.96	54.21	3348.75
	5/19/2003	1209					3402.96	54.23	3348.73
	9/8/2003	1306					3402.96	54.38	3348.58
	12/2/2003	949					3402.96	54.51	3348.45
	3/30/2004	1612					3402.96	54.61	3348.35
	6/7/2004						3402.96	54.32	3348.64
	9/14/2004	1112					3402.96	54.45	3348.51
MW066SA	3/28/2003	1355	66.00	68.95	4	2.56	3404.03	52.45	3351.58
	5/19/2003	1244					3404.03	52.24	3351.79
	9/8/2003	1346					3404.03	52.71	3351.32
	12/2/2003	1147					3404.03	53.00	3351.03
	3/30/2004	923					3404.03	53.16	3350.87
	6/7/2004						3404.03	52.88	3351.15
	9/14/2004	1155					3404.03	55.30	3348.73
MW067SA	3/28/2003	1353	83.00	84.40	4	2.50	3409.16	47.64	3361.52
	5/19/2003	1246					3409.16	47.61	3361.55
	9/8/2003	1356					3409.16	48.19	3360.97
	12/2/2003	1154					3409.16	48.25	3360.91
	3/30/2004	1033					3409.16	48.34	3360.82
	6/7/2004						3409.16	48.10	3361.06
	9/14/2004	1452					3409.16	48.26	3360.9
MW068	3/27/2003	1459	110.00	112.72	4	2.25	3448.08	67.61	3380.47

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	5/19/2003	1235					3448.08	68.70	3379.38
	9/9/2003	911					3448.08	68.67	3379.41
	12/2/2003	1417					3448.08	68.51	3379.57
	3/30/2004	933					3448.08	68.52	3379.56
	6/7/2004						3448.08	68.45	3379.63
	9/16/2004	1513					3448.18	68.30	3379.88
MW069	3/27/2003	1507	110.00	112.81	4	2.37	3444.07	64.89	3379.18
	5/19/2003	1225					3444.07	64.83	3379.24
	9/9/2003	948					3444.07	64.79	3379.28
	12/2/2003	1412					3444.07	64.63	3379.44
	3/30/2004	920					3444.07	64.65	3379.42
	6/7/2004						3444.07	64.63	3379.44
	9/16/2004	1524					3444.07	64.60	3379.47
MW070	3/27/2003	1406	93.00	95.15	4	2.15	3439.68	61.00	3378.68
	5/19/2003	1150					3439.68	61.03	3378.65
	9/9/2003	1018					3439.68	61.02	3378.66
	12/2/2003	1351					3439.68	60.93	3378.75
	3/30/2004	821					3439.68	61.02	3378.66
	6/7/2004						3439.68	60.94	3378.74
	9/16/2004	1558					3439.68	60.90	3378.78
MW070A	3/27/2003	1411	127.00	127.11	4	2.19	3439.67	61.08	3378.59
	5/19/2003	1200					3439.67	61.06	3378.61
	9/9/2003	1020					3439.67	61.05	3378.62
	12/2/2003	1353					3439.67	60.96	3378.71
	3/30/2004	825					3439.67	60.96	3378.71
	6/7/2004						3439.67	60.98	3378.69
	9/16/2004	1600					3439.67	60.98	3378.69
MW071SA	5/2/2003	1435	89.00	92.00	4	2.16	3401.01	34.79	3366.22
	5/19/2003	1117					3401.01	52.61	3348.4
	9/8/2003	1303					3401.01	52.83	3348.18
	12/2/2003	945					3401.01	52.98	3348.03
	3/30/2004	1608					3401.01	53.03	3347.98
	6/7/2004						3401.01	52.78	3348.23
	9/14/2004	1105					3401.01	53.00	3348.01
MW072SA	5/1/2003	1030	91.00	93.55	4	1.96	3401.34	53.46	3347.88
	5/19/2003	1234					3401.34	52.96	3348.38

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	9/8/2003	1351					3401.34	53.24	3348.1
	12/2/2003	1143					3401.34	53.35	3347.99
	3/30/2004	927					3401.34	53.49	3347.85
	6/7/2004						3401.34	53.18	3348.16
	9/14/2004	1146					3401.34	53.39	3347.95
MW073SA	5/3/2003	1420	66.00	69.00	4	2.15	3403.26	50.25	3353.01
	5/19/2003	1240					3403.26	50.21	3353.05
	9/8/2003	1349					3403.26	50.61	3352.65
	12/2/2003	1149					3403.26	50.74	3352.52
	3/30/2004	930					3403.26	50.86	3352.4
	6/7/2004						3403.26	50.58	3352.68
	9/14/2004	1151					3403.26	50.76	3352.5
MW074SA	2/18/2004	1325	68.00	66.44	4	2	3409.97	50.22	3359.75
	3/30/2004	946					3409.97	50.24	3359.73
	6/7/2004						3409.97	50.15	3359.82
	9/14/2004	1342					3409.97	50.22	3359.75
MW075SA	2/18/2004	1505	67.00	65.65	4	2.05	3404.21	54.19	3350.02
	3/30/2004	1559					3404.21	54.21	3350
	6/7/2004						3404.21	54.11	3350.1
	9/14/2004	1118					3404.21	54.08	3350.13
MW076SA	2/18/2004	1459	100.00	91.74	4	1.95	3404.13	55.72	3348.41
	3/29/2004	1552					3404.13	55.77	3348.36
	6/7/2004						3404.13	55.62	3348.51
	9/14/2004	1123					3404.13	55.64	3348.49
MW077SA	2/18/2004	1453	95.00	94.27	4	2.44	3401.71	53.71	3348
	3/30/2004	1547					3401.71	53.72	3347.99
	6/7/2004						3401.71	53.49	3348.22
	9/14/2004	1107					3401.71	53.56	3348.15
MW078SA	3/30/2004	1120	68.00	70.41	4	2.46	3411.12	44.63	3366.49
	6/7/2004						3411.12	45.45	3365.67
	9/16/2004	1202					3411.12	45.72	3365.4
MW079SA	3/30/2004	1028	70.00	71.9	4	2.46	3408.8	48.78	3360.02
	6/7/2004						3408.8	46.61	3362.19
	9/14/2004	1456					3408.8	48.73	3360.07
MW080SA	3/30/2004	1030	74.00	74	4	2.46	3408.92	48.82	3360.1
	6/7/2004						3408.92	48.70	3360.22

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	9/14/2004	1454					3408.92	48.81	3360.11
MW081SA	3/30/2004	1032	70.00	74.7	4	2.47	3408.28	48.50	3359.78
	6/7/2004						3408.28	46.80	3361.48
	9/14/2004	1458					3408.28	48.43	3359.85
MW082SA	3/30/2004	850	77.00	80.29	4	2.51	3406.25	55.46	3350.79
	6/7/2004						3406.25	55.35	3350.9
	9/14/2004	1141					3406.25	55.22	3351.03
MW083SA	3/30/2004	848	77.00	80.29	4	2.47	3406.11	55.33	3350.78
	6/7/2004						3406.11	55.22	3350.89
	9/14/2004	1139					3406.11	54.18	3351.93
MW084SA	3/30/2004	831	77.00	80.14	4	2.58	3405.98	54.83	3351.15
	6/7/2004						3405.98	54.78	3351.2
	9/14/2004	1129					3405.98	54.70	3351.28
MW085SA	3/30/2004	837	78.00	80.3	4	2.48	3405.98	55.24	3350.74
	6/7/2004						3405.98	55.08	3350.9
	9/14/2004	1137					3405.98	55.08	3350.9
MW086SA	9/24/2004	NR	90.00		4	2.98	3401.86		3401.86
MW087A	9/24/2004	NR	115.00		4	2.85	3430.75	50.05	3380.7
MW088M	9/24/2004	NR	90.00		4	2.84	3430.63	50.65	3379.98
RW001	11/16/1999	NR	111.00	106.50	6	2.49	3428.32	50.41	3377.91
	5/15/2001	NR					3428.32	49.65	3378.67
	8/23/2001	1325					3428.32	50.04	3378.28
	1/21/2002	1243					3428.32	49.85	3378.47
	4/4/2002	1140					3428.32	49.97	3378.35
	9/3/2002	1110					3428.32	49.88	3378.44
	12/2/2002	1359					3428.32	49.53	3378.79
	1/31/2003	1026					3428.32	49.63	3378.69
	3/28/2003	957					3428.32	49.62	3378.70
	5/19/2003	1615					3428.32	49.51	3378.81
	9/9/2003	1154					3428.32	49.66	3378.66
	12/3/2003	1007					3428.32	49.71	3378.61
	3/30/2004	1333					3428.32	49.81	3378.51
	6/7/2004						3428.32	49.75	3378.57
	9/17/2004	1159					3428.32	49.34	3378.98
RW002	1/21/2002	1145	68.00	72.07	6	2.18	3431.66	52.98	3378.68
	4/4/2002	1045					3431.66	53.05	3378.61

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	9/3/2002	1150					3431.66	52.95	3378.71
	12/2/2002	1435					3431.66	52.81	3378.85
	1/30/2003	1415					3431.66	52.75	3378.91
	3/28/2003	1117					3431.66	52.76	3378.90
	5/19/2003	1520					3431.66	52.73	3378.93
	9/9/2003	1213					3431.66	52.72	3378.94
	12/3/2003	1031					3431.66	52.66	3379.00
	3/30/2004	1404					3431.66	52.77	3378.89
	6/7/2004						3431.66	52.77	3378.89
RW003	1/21/2002	1256	65.00	67.79	6	2.31	3429.82	50.75	3379.07
	4/4/2002	1225					3429.82	50.78	3379.04
	9/3/2002	1240					3429.82	50.75	3379.07
	12/2/2002	1315					3429.82	50.56	3379.26
	1/30/2003	1326					3429.82	50.45	3379.37
	3/28/2003	1056					3429.82	50.55	3379.27
	5/19/2003	1505					3429.82	50.49	3379.33
	9/9/2003	1223					3429.82	50.40	3379.42
	12/3/2003	1043					3429.82	50.34	3379.48
	3/30/2004	1419					3429.82	50.53	3379.29
	6/7/2004						3429.82	50.43	3379.39
RW004A	1/21/2002	1135	115.00	118.76	6	2.36	3430.11	51.51	3378.60
	4/4/2002	1110					3430.11	51.59	3378.52
	9/3/2002	1115					3430.11	51.45	3378.66
	12/2/2002	1451					3430.11	51.10	3379.01
	1/31/2003	920					3430.11	51.14	3378.97
	3/28/2003	950					3430.11	51.16	3378.95
	5/19/2003	1605					3430.11	51.23	3378.88
	9/9/2003	1206					3430.11	46.36	3383.75
	12/3/2003	1020					3430.11	51.53	3378.58
	3/30/2004	1351					3430.74	52.34	3378.40
	6/7/2004						3430.74	51.61	3379.13
EPWW1	12/18/1997	NR	100.00	99.98	6	1.13	3429.95	73.12	3356.83
	4/22/1997	NR					3429.95	66.46	3363.49
	11/16/1999	NR					3429.95	65.20	3364.75
	5/15/2001	NR					3429.95	52.27	3377.68
	8/23/2001	1350					3429.95	52.86	3377.09

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	1/21/2002	1542					3429.95	52.67	3377.28
	4/4/2002	1010					3429.95	93.34	3336.61
	9/3/2002	1140					3429.95	50.85	3379.10
	12/2/2002	1458					3429.95	51.59	3378.36
	1/31/2003	927					3429.95	52.20	3377.75
	3/28/2003	941					3429.95	52.58	3377.37
	5/19/2003	1628					3429.95	52.26	3377.69
	9/9/2003	1136					3429.95	94.08	3335.87
	12/3/2003	918					3429.95	94.07	3335.88
	3/30/2004	NR					3429.95	86.62	3343.33
	6/7/2004						3429.95	77.45	3352.50
	9/17/2004	1006					3429.95	52.22	3377.73
LordWW	12/18/1997	NR	93.00	68.75	6	0.53	3419.97	44.00	3375.97
	11/16/1999	NR					3419.97	42.67	3377.30
	6/7/2001	1045					3419.97	41.90	3378.07
	2/6/2002	1330					3419.97	42.01	3377.96
	9/3/2002	910					3419.97	41.88	3378.09
	12/9/2002	NR					3419.97	41.88	3378.09
	6/5/2003	1030					3419.97	41.95	3378.02
	1/22/2004	1240					3419.97	42.25	3377.72
	3/30/2004	1530					3419.97	42.34	3377.63
	6/7/2004						3419.97	42.12	3377.85
	9/17/2004	1420					3419.97	41.93	3378.04
RowlandWW	12/18/1997	NR	--	66.00	6	0.46	3419.47	43.12	3376.35
	11/16/1999	NR					3419.47	41.58	3377.89
	5/15/2001	NR					3419.47	41.06	3378.41
	8/23/2001	1150					3419.47	40.92	3378.55
	1/21/2002	1537					3419.47	41.09	3378.38
	4/4/2002	1255					3419.47	41.32	3378.15
	9/3/2002	1235					3419.47	40.90	3378.57
	12/2/2002	1249					3419.47	40.80	3378.67
	1/31/2003	1057					3419.47	40.79	3378.68
	3/28/2003	1525					3419.47	40.74	3378.73
	6/3/2003	NR					3419.47	40.92	3378.55
	9/9/2003	1314					3419.47	41.03	3378.44
	12/2/2003	1256					3419.47	41.14	3378.33

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	3/30/2004	NR					3419.47	41.35	3378.12
	6/7/2004						3419.47	41.17	3378.30
WoodellWW	5/15/2001	NR	120.00	86.00 to TOP	4	1.03	3423.77	49.63	3374.14
	8/23/2001	1500					3423.77	49.97	3373.80
	4/5/2002	1250					3423.77	49.52	3374.25
	9/3/2002	1300					3423.77	54.07 (P)	3369.7
	12/2/2002	1241					3423.77	49.06	3374.71
	1/30/2003	1025					3423.77	49.14	3374.63
	3/28/2003	1520					3423.77	62.24 (P)	3361.53
							3423.77	53.76 (P)	3370.01
	6/5/2003	NR					3423.77	53.76 (P)	3370.01
	9/9/2003	1339					3423.77	53.65 (P)	3370.12
	12/2/2003	1009					3423.77	49.07	3374.70
	3/30/2004	1540					3423.77	49.50	3374.27
	6/7/2004						3423.77	54.24	3369.53
GOPWW2	NR	NR	99.00	87.58	8	1.37	3396.97	49.02	3347.95
	12/4/2002	1540					3396.97	49.54	3347.43
	1/31/2003	1103					3396.97	49.42	3347.55
	3/28/2003	1300					3396.97	49.14	3347.83
	5/19/2003	1126					3396.97	49.21	3347.76
	9/9/2003	1326					3396.97	49.37	3347.6
	12/2/2003	938					3396.97	49.71	3347.26
	3/30/2004	1602					3396.97	49.54	3347.43
	6/7/2004						3396.97	49.31	3347.66
	9/14/2004	1055					3396.97	49.45	3347.52
IW001	8/1/2002	1250	90.00	93.00	4	2.25	3431.91	53.19	3378.72
	12/2/2002	1437					3431.91	52.90	3379.01
	1/30/2003	1411					3431.91	52.85	3379.06
	3/28/2003	1114					3431.91	52.94	3378.97
	5/19/2003	1510					3431.91	50.91	3381.00
	9/9/2003	1214					3431.91	52.62	3379.29
	12/3/2003	1033					3431.91	53.03	3378.88
	3/30/2004	1401					3431.91	52.98	3378.93
	6/7/2004						3431.91	53.93	3377.98
IW002	9/3/2002	NR	90.00	92.95	4	2.55	3430.33	53.14	3377.19
	12/2/2002	1315					3430.33	50.99	3379.34

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	1/30/2003	1318					3430.33	50.88	3379.45
	3/28/2003	1052					3430.33	50.99	3379.34
	5/19/2003	1525					3430.33	50.88	3379.45
	9/9/2003	1225					3430.33	51.46	3378.87
	12/3/2003	1045					3430.33	50.94	3379.39
	3/30/2004	1421					3431.00	51.62	3379.38
	6/7/2004						3431.00	51.61	3379.39
IW003	12/16/2003	955	55.00	57.79	4	1.94	3406.68	45.47	3361.21
	2/18/2004	1528					3406.68	45.37	3361.31
	3/30/2004	1019					3406.68	45.37	3361.31
	6/3/2004						3406.68	44.39	3362.29
IW004	12/16/2003	957	50.00	52.86	4	2.04	3406.31	45.04	3361.27
	2/18/2004	1524					3406.31	44.95	3361.36
	3/30/2004	1016					3406.31	44.97	3361.34
	6/7/2004						3406.31	45.99	3360.32
IW005	12/16/2003	1001	60.00	48.7	4	1.64	3405.36	45.85	3359.51
	2/18/2004	1435					3405.36	43.85	3361.51
	3/30/2004	920					3405.36	43.84	3361.52
	6/7/2004						3405.36	45.02	3360.34
IW006	12/16/2003	1054	50.00	52.8	4	2.12	3404.36	45.14	3359.22
	2/18/2004	1429					3404.36	43.24	3361.12
	3/30/2004	915					3404.36	43.24	3361.12
	6/7/2004						3404.36	44.18	3360.18
IW007	12/16/2003	1006	46.00	48.85	4	1.74	3405.31	45.65	3359.66
	2/18/2004	1422					3405.31	44.09	3361.22
	3/30/2004	912					3405.31	44.31	3361
	6/7/2004						3405.31	43.54	3361.77
IW008	12/16/2003	1008	50.00	52.18	4	2.03	3405.37	50.61	3354.76
	2/18/2004	1416					3405.37	50.13	3355.24
	3/30/2004	910					3405.37	51.08	3354.29
	6/7/2004						3405.37	45.54	3359.83
IW009	12/16/2003	1010	55.00	47.53	4	2.08	3406.07	47.22	3358.85
	2/18/2004	1411					3406.07	47.40	3358.67
	3/30/2004	907					3406.07	47.49	3358.58
	6/7/2004						3406.07	44.55	3361.52
IW010	12/16/2003	1011	62.00	60.05	4	1.42	3405.82	52.88	3352.94

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Table 2
Groundwater Elevations
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station ID	Collection Date	Collection Time	Drilled Depth (Feet BGL)	Measured Depth (Feet BTOC)	Well Diameter (Inches)	Measured Stickup (Feet)	Top of Casing Elevation (Feet MSL)	Measured Depth to Water (Feet BTOC)	Groundwater Elevation (Feet MSL)
	2/18/2004	1406					3405.82	53.48	3352.34
	3/30/2004	904					3405.82	53.52	3352.3
	6/7/2004						3405.82	54.65	3351.17
IW011	12/16/2003	1013	73.00	65.55	4	1.94	3406.83	57.60	3349.23
	2/18/2004	1400					3406.83	57.59	3349.24
	3/30/2004	902					3406.83	57.64	3349.19
	6/7/2004						3406.83	58.79	3348.04
IW012	2/18/2004	1354	57.00	55.44	4	1.64	3405.92	54.99	3350.93
	3/30/2004	900					3405.92	Dry	Dry
	6/7/2004						3405.92	53.24	3352.68
IW013	2/18/2004	1347	66.00	63.81	4	2.12	3406.62	56.27	3350.35
	3/30/2004	857					3406.62	56.34	3350.28
	6/7/2004						3406.62	51.56	3355.06
IW014	2/18/2004	1339	77.00	75.23	4	1.73	3405.48	54.55	3350.93
	3/30/2004	853					3405.48	54.59	3350.89
	6/7/2004						3405.48		3405.48
IW015	2/18/2004	1532	54.00	51.04	4	1.92	3406.05	45.43	3360.62
	3/30/2004	45.45					3406.05	45.45	3360.6
	6/7/2004						3406.05	45.91	3360.14
IW016	2/18/2004	1538	74.00	71.48	4	1.98	3408.29	48.16	3360.13
	3/30/2004	1026					3408.29	48.19	3360.1
	6/3/2004						3408.29	49.11	3359.18

Notes:

EP - Eunice Plant
GOP - Gulf Oil Corp.
WW - Water Well
MW - Monitoring Well
RW - Recovery Well
IW- Injection Well
No Suffix - Shallow/Middle Monitoring Well Completion (MW069)
A - Deep Monitoring Well Completion (MW070A)
M-Middle Monitoring Well Completion (MW008M)
SA-Shallow/Deep, Fully-Penetrating, Monitoring Well Completion (MW071SA)
* - Highlander calculated water levels using ground level elevation and TOC elevation to calculate stickups
(P) - Well was pumping during water collection
BTOC - Below Top of Casing
BGL - Below Gound Level
MSL - Mean Sea Level
NR - Not Reported
SG - Specific Gravity

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Table 3
Groundwater Analytical Results
Organic Compounds (BTEX and TPH)
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L unless noted)

Station Name	Sample Collection Date	BTEX					TPH		
		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Total BTEX	Total Petroleum Hydrocarbons DRO	Total Petroleum Hydrocarbons GRO	Total TPH
EPWW1	1/22/2004	0.003	<0.002	<0.002	<0.006	0.003	<0.24	<0.05	ND
IW003	12/17/2003	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
IW004	12/18/2003	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
IW005	2/25/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
IW006	2/25/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
IW007	2/26/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.3	<0.05	ND
IW010	2/26/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
IW011	12/18/2003	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
IW013	2/10/2004	<0.002	0.003	<0.002	<0.006	0.003	<0.25	<0.05	ND
IW014	2/11/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
IW015	2/25/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
IW016	2/11/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW001	1/26/2004	0.02	0.02	0.63	0.20	0.87	7.2	2.8	10
MW001	7/28/2004	0.01	0.008	0.15	0.057	0.225	<2.5	1.6	1.6
MW002	1/20/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.27	<0.05	ND
MW002	6/23/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW003	6/29/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW004	1/19/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW009	1/20/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.26	<0.05	ND
MW009	6/24/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW009A	7/8/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW021	1/21/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW021	6/22/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW023	1/21/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW024	1/15/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.24	<0.05	ND
MW024	6/22/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW033	1/7/2004	0.49	1.0	0.30	0.33	2.12	0.54	6	6.54
MW033	7/28/2004	0.44	0.087	0.28	0.05	0.857	0.56	3.2	3.76
MW034	1/19/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW034	6/24/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW035	1/20/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW035	6/22/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW036	1/27/2004	0.006	0.002	<0.002	0.31	0.318	2.7	2.5	5.2
MW036	7/27/2004	0.007	<0.002	0.004	0.36	0.371	1.6	2.4	4

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Table 3
Groundwater Analytical Results
Organic Compounds (BTEX and TPH)
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L unless noted)

Station Name	Sample Collection Date	BTEX					TPH		
		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Total BTEX	Total Petroleum Hydrocarbons DRO	Total Petroleum Hydrocarbons GRO	Total TPH
MW037	1/27/2004	3.6	<0.04	0.61	0.70	4.91	1.6	13	14.6
MW037	7/28/2004	4.3	<0.1	0.600	0.600	5.5	5.9	15	20.9
MW038	1/27/2004	0.007	<0.002	<0.002	<0.006	0.007	0.83	0.06	0.89
MW038	7/28/2004	0.013	<0.006	<0.002	<0.002	0.013	0.29	0.08	0.37
MW039A	6/24/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW043	1/21/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	0.07	0.07
MW043	6/22/2004	<0.002	<0.002	<0.002	<0.006	ND	0.27	0.05	0.32
MW044	1/19/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW044	6/24/2004	<0.002	<0.002	<0.002	<0.006	ND	0.41	<0.05	0.41
MW045	1/22/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.24	<0.05	ND
MW046	1/27/2004	0.006	<0.002	0.01	0.061	0.077	2.5	0.50	3
MW046	7/27/2004	0.002	<0.002	0.007	0.018	0.027	2.8	0.31	3.11
MW046A	1/27/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW046A	7/27/2004	<0.002	<0.002	<0.002	<0.006	ND	0.40	<0.05	0.4
MW047	1/20/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.27	<0.05	ND
MW048SA	12/17/2003	<0.002	<0.002	<0.002	<0.006	ND	<0.26	<0.05	ND
MW049SA	12/17/2003	<0.002	<0.002	<0.002	<0.006	ND	<0.24	<0.05	ND
MW049SA	6/29/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW051SA	7/1/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW058	1/13/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW058	6/22/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW074SA	2/4/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.3	<0.05	ND
MW075SA	2/5/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW076SA	2/4/2004	<0.002	<0.002	<0.002	<0.006	ND	0.31	<0.05	0.31
MW077SA	2/3/2004	<0.002	<0.002	<0.002	<0.006	ND	0.46	<0.05	0.46
MW077SA	6/14/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW078SA	3/24/2004	<0.002	<0.002	<0.002	<0.006	ND	0.94	<0.05	0.94
MW078SA	6/14/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW079SA	3/18/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.27	<0.05	ND
MW080SA	3/17/2004	<0.002	<0.002	<0.002	<0.006	ND	0.28	<0.05	0.28
MW081SA	3/25/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW082SA	3/25/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.26	<0.05	ND
MW083SA	3/25/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.27	<0.05	ND
MW084SA	3/24/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.29	<0.05	ND

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Table 3
Groundwater Analytical Results
Organic Compounds (BTEX and TPH)
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico
(mg/L unless noted)

Station Name	Sample Collection Date	BTEX					TPH		
		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Total BTEX	Total Petroleum Hydrocarbons DRO	Total Petroleum Hydrocarbons GRO	Total TPH
MW085SA	3/25/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.26	<0.05	ND
MW086SA	10/7/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW087A	9/14/2004	<0.002	<0.002	<0.002	<0.006	ND	<0.25	<0.05	ND
MW088M	9/13/2004	<0.04	<0.04	<0.04	<0.1	ND	39	7	46

Notes:
EP - Eunice Plant
GOP - Gulf Oil Corp.
WW - Water Well
MW - Monitoring Well
RW - Recovery Well
IW - Injection Well
No Suffix - Shallow/Middle Monitoring Well Completion (MW069)
A - Deep Monitoring Well Completion (MW070A)
M - Middle Monitoring Well Completion (MW008M)
SA - Shallow/Deep, Fully-Penetrating, Monitoring Well Completion (MW071SA)
DRO - Diesel Range Organics
GRO - Gasoline Range Organics

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Table 4
Groundwater Analytical Results
Metals
ChevronTexaco Eunice #2 (North) Gas Plant
(mg/L unless noted)

Station Name	Sample Collection Date	Chromium (Total)	Hexavalent Chromium, Dissolved	Chromium, Dissolved	Arsenic	Barium	Cadmium	Calcium	Lead	Manganese	Manganese, Dissolved	Mercury	Selenium	Silver	Magnesium	Sodium	Potassium	Ferrous iron	Iron	Iron, Dissolved
EPWW1	1/22/2004		0.33	0.85																
EPWW1	7/1/2004		0.38	0.80																
GOPWW2	1/14/2004		<0.005	<0.01																
GOPWW2	6/15/2004		<0.005	<0.05																
IW001	12/9/2003	0.32	<0.01	0.32	<0.05			4240		6.42	6.36				247	280	3330	280	244	242
IW001	1/8/2004	<0.5	<0.005	<0.5	<0.5			5870		4.5	4.4				624	416	5010	48	91	89
IW001	3/4/2004	0.33	<0.05	0.26	<0.05			2640		4.42	3.51				184	710	1890	140	229	179
IW001	6/10/2004	0.14	<0.1	0.11	<0.01			3340		3.17	2.30				653	321	6590	170	123	92.1
IW001	7/14/2004	0.1	<0.1	0.08	<0.01			2080		1.63	1.14				450	214	4620		75.2	57.2
IW001	8/11/2004	<0.05	<0.1	<0.05	<0.01			364		0.98	0.85				66.2	34	713	190	30.2	28.2
IW001	9/15/2004	<0.2	<0.1	<0.2	<0.05			1420		2.9	2.8				224	203	2830	110	115	114
IW002	12/10/2003	0.16	<0.01	0.15	<0.05			40900		4.19	3.83				204	178	26800	290	247	224
IW002	1/8/2004	<0.5	<0.005	<0.5	<0.5			4930		3.2	3.1				329	318	4810	93	118	113
IW002	2/23/2004	0.11	<0.05	0.1	<0.05			1420		2.69	2.64				96.4	259	1760	120	140	140
IW002	6/10/2004	0.09	<0.1	0.07	<0.01			1520		2.99	2.33				246	143	2580	160	133	105
IW002	7/8/2004	0.11	<0.1	0.09	<0.01			1590		3.91	3.32				326	165	3270	160	128	108
IW002	7/14/2004																	60		
IW002	8/16/2004	1.2	<0.1	<0.5	<0.1			1410		7	5.3				219	109	2990	160	177	166
IW002	9/9/2004	<0.05	<0.05	<0.05	<0.01			68.6		0.2	0.2				9.51	9.6	129	48	6	6.1
IW002	10/7/2004	<0.5	<0.1	<0.5	<0.1			1460		1.7	1.6				227	223	3530		118	112
IW003	12/17/2003	0.27	0.103	0.27	<0.05			560		<0.05	<0.05				237	500	12.4	<1.0	<0.1	<0.1
IW003	6/3/2004	0.13	<0.1	0.11	<0.01			4090		36.8	33.3				586	281	4230	<25	32.8	30.8
IW003	7/8/2004	0.17	<0.1	0.43	0.06			5340		61.2	56.3				602	266	2090	95	76.1	61.4
IW003	8/18/2004	0.16	<0.1	0.15	<0.01			5550		31	27.7				587	330	3640	100	75.6	69.5
IW004	12/18/2003	0.62	<0.005	0.64	<0.05			83.0		<0.05	<0.05				126	208	8.3	<1.0	0.3	<0.1
IW004	6/9/2004	0.17	<0.1	0.16	<0.01			3580		49.8	48.2				66.8	29.0	218	83	61.2	59.3
IW004	7/8/2004	0.17	1.9	0.19	<0.01			4550		38.8	39.1				774	319	3570	140	103	101
IW004	8/18/2004	0.14	0.1	0.14	<0.01			3140		37.6	36.1				393	220	2130	120	95.9	97.1
IW005	12/18/2003		0.14	0.20							<0.05									<0.1
IW005	2/25/2004	0.19			<0.05	0.06	<0.01	346	<0.01	<0.05		<0.002	0.03	<0.005	116	171	8.0	< 1.0	0.9	
IW005	6/9/2004	0.12	<0.1	0.11	<0.01			2740		16.8	15.1				543	254	2340	79	61.2	55.0
IW005	7/8/2004	0.12	<0.1	0.1	<0.01			2510		9.3	7.63				504	226	3220	88	64.3	55.1
IW005	8/18/2004																	65		
IW006	12/18/2003	0.06	0.030		<0.05			274		0.07					84.9	160	8.7		1.7	
IW006	2/25/2004			0.07		0.19	<0.01		<0.01		<0.05	<0.002	0.02	<0.005				< 1.0		<0.1
IW006	6/9/2004	0.17	<0.1	0.13	<0.01			4790		50.1	37.7				797	492	2840	140	114	96.9
IW006	7/20/2004	0.17	<0.1	0.15	<0.01			4840		35.8	28.8				698	326	2530	170	135	105
IW006	8/18/2004	0.11	<0.1	0.12	0.04			3050		18.5	19				533	1110	2530	120	93.1	95.5
IW007	12/18/2003	<0.05	<0.005		<0.05			277		0.05					104	167	9.4		3.8	
IW007	2/26/2004	<0.01			<0.01	0.05	<0.01	337	<0.01	0.01		<0.002	0.02	<0.005	116	146	6.93	< 1.0	0.73	
IW007	6/9/2004	0.08	<0.1	0.07	<0.01			2710		7.56	6.01				430	194	1840	54	39.9	31.7
IW007	7/20/2004	0.11	<0.1	0.1	<0.01			4500		15.1	13.5				662	240	2770	110	74.6	68.4
IW007	8/19/2004	0.13	<0.1	0.14	<0.01			4570		7.15	7.61				634	260	3630	120	96.2	108
IW008	2/26/2004	0.02	<0.005	<0.05	<0.01	0.17	<0.01	125	0.01	0.18	<0.05	<0.002	<0.01	<0.005	46.7	87.7	9.70		10.3	<0.1
IW008	6/9/2004	0.07	<0.1	0.06	<0.01			1530		6.56	6.07				373	180	1260	48	37.2	35.3
IW008	7/20/2004	0.18	<0.1	0.16	<0.01			3690		16.0	13.2				649	236	1880	120	96.1	87.3
IW008	8/19/2004	0.07	<0.1	0.06	<0.01			1610		6.57	5.36				350	180	1860	74	65.6	59.9
IW009	6/9/2004	0.11	<0.1	0.1	<0.01			3280		10.1	8.29				737	344	2840	120	107	80.0
IW009	7/20/2004	0.13	<0.1	0.1	<0.01			5370		15.9	12.6				767	282	2910	200	165	118
IW009	8/19/2004	0.08	<0.1	0.07	<0.01			2570		3.74	2.82				379	238	2430	110	88.3	80.9
IW010	12/18/2003	0.09	0.050		<0.05			330		0.05					136	411	11.0		2.0	
IW010	2/26/2004	0.14		0.13	<0.01	0.11	<0.01	419	<0.01	0.12	0.06	<0.002	0.02	<0.005	163	495	11.9	< 1.0	6.04	0.9
IW010	6/9/2004	0.09	<0.1	0.08	<0.01			3170		46.0	42.2				801	400	1920	77	27.2	25.4
IW010	7/21/2004	0.17	<0.1	0.14	<0.01			669		105	91.5				1130	449	175	99	67.3	
IW010	8/19/2004	0.23	<0.1	0.27	<0.01			5620		58.6	68.9				904	288	2500	180	138	160

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Table 4
Groundwater Analytical Results
Metals
ChevronTexaco Eunice #2 (North) Gas Plant
(mg/L unless noted)

Station Name	Sample Collection Date	Chromium (Total)	Hexavalent Chromium, Dissolved	Chromium, Dissolved	Arsenic	Barium	Cadmium	Calcium	Lead	Manganese	Manganese, Dissolved	Mercury	Selenium	Silver	Magnesium	Sodium	Potassium	Ferrous iron	Iron	Iron, Dissolved
IW011	12/18/2003	<0.05	0.032	<0.05	<0.05			420		<0.5	<0.05				1720	2370	96	<1.0	2	<0.1
IW011	6/8/2004	0.05	<0.1	<0.05	<0.01			2180		6.36	5.37				266	152	2800	53	36.5	30.9
IW011	7/21/2004	0.09	<0.1	0.05	<0.01			537		21.5	18.4				389	175	382	120	89.3	80.3
IW011	8/19/2004	0.06	<0.1	0.06	<0.01			3150		4.23	3.59				324	240	3520	74	57.6	54.6
IW012	6/8/2004	0.08	<0.1	0.06	<0.01			3780		9.97	7.97				399	197	4470	79	51.3	42.6
IW012	8/19/2004	0.06	<0.1	0.07	<0.01			2720		1.1	0.61				274	220	3090	92	69.5	73.9
IW013	2/10/2004	0.15	0.103	0.15	<0.05	0.11	<0.01	460	<0.01	0.09	<0.05	<0.0002	0.02	<0.05	156	390	7.3	<1.0	2.6	<0.1
IW013	6/8/2004	0.30	<0.1	0.30	<0.01			2790		7.70	7.51				759	370	3800	44	14.4	13.6
IW013	7/21/2004	0.45	9	0.38	<0.01			2150		12.9	11.5				584	285	2290	78	63.8	58
IW013	8/19/2004	0.19	<0.1	0.18	<0.01			2640		7.54	6.96				309	166	2360	90	78.3	75.5
IW014	2/11/2004	<0.05	0.007	<0.05	<0.05	0.09	<0.01	360	<0.01	<0.05	<0.05	<0.0002	<0.01	<0.05	125	900	8.1	< 1.0	1.3	<0.1
IW014	6/10/2004	0.07	<0.1	0.06	<0.01			233		5.2	2.98				391	221	340	64	67	44.0
IW014	7/21/2004	0.08	<0.1	<0.05	<0.01			2770		7.11	5.85				312	153	2610	190	151	126
IW014	8/19/2004	<0.05	<0.1	<0.05	<0.01			1390		0.9	0.69				147	119	1490	53	35	38.4
IW015	2/25/2004	0.24	0.18	0.22	<0.05			610		0.19	<0.05				190	500	11.1	< 1.0	6.5	<0.1
IW015	6/3/2004	0.10	<0.1	0.09	<0.01			2900		7.27	6.14				335	169	2690	<25	21.7	18.5
IW015	7/8/2004	0.27	0.3	0.19	<0.01			4720		11.3	9.32				590	270	5520	110	76.4	64.5
IW015	8/18/2004	0.15	<0.1	0.15	<0.01			3850		2.91	3.11				349	250	3200	73	51.7	52.1
IW016	2/11/2004	0.13	0.096	0.12	<0.05	0.14	<0.01	590	<0.01	0.05	<0.05	<0.0002	0.02	<0.05	135	620	8.2	< 1.0	1.9	<0.1
IW016	6/3/2004	0.07	<0.1	0.07	<0.01			2820		5.69	5.20				318	165	3450	49	42.4	38.5
IW016	7/7/2004	<0.5	<0.1	<0.5	<0.1			2980		5.8	5.8				336	170	3400	100	81.1	84
IW016	8/17/2004	<0.5	<0.1	<0.5	<0.1			841		1.7	1				77.1	56.2	1060	130	40	24
LordWW	1/22/2004		<0.005	<0.01																
LordWW	6/21/2004		<0.005	<0.01																
MW001	1/26/2004		<0.005	<0.01																
MW001	7/28/2004		0.005	<0.01																
MW002	1/20/2004		0.013	0.02																
MW002	6/23/2004		0.016	0.02																
MW002A	1/20/2004		0.011	0.02																
MW002A	6/23/2004		0.022	0.02																
MW003	1/20/2004		0.13	0.14																
MW003	6/29/2004		0.38	0.50																
MW004	1/19/2004		0.053	0.10																
MW004	6/24/2004		0.063	0.12																
MW004A	1/19/2004		0.033	0.07																
MW004A	6/24/2004		0.106	0.09																
MW007	1/21/2004		0.013	0.03																
MW007	6/23/2004		0.018	0.02																
MW007A	1/21/2004		0.14	0.24																
MW007A	6/29/2004		0.15	0.16																
MW008	12/4/2003	4.79	2.7	4.70	<0.05			685		<0.05	<0.05				131	6470	15.3	<1.0	<0.1	<0.1
MW008	1/5/2004	3.34	1.0	3.55	<0.05			570		<0.05	<0.05				113	650	8.7	<1.0	0.2	<0.1
MW008	3/1/2004	3.81	2.3	3.16	<0.05			620		<0.05	<0.05				113	3380	12.9	< 1.0	0.8	<0.1
MW008	6/7/2004	4.35	4.0	4.13	<0.01			698		<0.05	<0.05				169	787	16	< 1.0	0.2	0.2
MW008	7/7/2004	3.33	2.2	4.17	<0.01			575		0.02	<0.01				114	798	12.7	< 1.0	0.94	<0.25
MW008	8/10/2004	2.42	1.6	2.28	<0.01			618		<0.05	<0.05				115	794	12.4	< 1.0	0.1	<0.1
MW008	9/16/2004	3.92	1.3	4.44	<0.01			646		<0.05	<0.05				145	824	12.4	< 1.0	<0.1	<0.1
MW008A	12/4/2003	3.18	2.0	3.19	<0.05			622		<0.05	<0.05				218	757	22	<1.0	<0.1	<0.1
MW008A	1/5/2004	3.33	1.8	3.12	<0.05			680		<0.05	<0.05				173	590	11.6	<1.0	<0.1	<0.1
MW008A	3/1/2004	3.18	1.7	3.77	<0.05			530		<0.05	<0.05				198	740	14.9	2.7	<0.1	<0.1
MW008A	6/7/2004	3.93	4.0	3.82	<0.01			717		0.11	0.06				188	689	15.5	< 1.0	3.4	<0.1
MW008A	7/7/2004	4.08	2	7.74	<0.01			603		0.08	0.12				185	694	16.3	< 1.0	1.01	<0.25
MW008A	8/10/2004	3.83	2.6	3.83	<0.01			644		<0.05	<0.05				199	692	14.7	< 1.0	0.1	<0.1
MW008A	9/16/2004	3.83	1.6	3.84	<0.01			617		0.06	0.06				183	736	14.6	< 1.0	0.1	<0.1
MW008M	12/4/2003	5.77	2.6	5.92	<0.05			734		<0.05	<0.05				164	6470	28	<1.0	<0.1	<0.1

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Metals
ChevronTexaco Eunice #2 (North) Gas Plant
(mg/L unless noted)

Station Name	Sample Collection Date	Chromium (Total)	Hexavalent Chromium, Dissolved	Chromium, Dissolved	Arsenic	Barium	Cadmium	Calcium	Lead	Manganese	Manganese, Dissolved	Mercury	Selenium	Silver	Magnesium	Sodium	Potassium	Ferrous iron	Iron	Iron, Dissolved
MW008M	1/6/2004	5.45	1.2	5.56	<0.05			740		<0.05	<0.05				181	760	17.0	1.8	<0.1	<0.1
MW008M	3/1/2004	5.29	2.7	5.22	<0.05			667		<0.05	0.12				164	774	20.5	< 1.0	0.2	<0.1
MW008M	6/7/2004	2.40	1.4	1.81	0.01			680		0.91	0.85				193	769	26.9	< 1.0	0.45	<0.25
MW008M	7/7/2004	0.44	<0.005	0.18	0.04			693		5.05	4.84				233	862	23.4	7.3	6.71	5.23
MW008M	8/10/2004	1.78	<0.005	1.99	0.04			757		3.58	3.57				199	821	18.7	< 1.0	0.4	1.1
MW008M	9/16/2004	0.75	<0.005	0.19	<0.01			645		<0.05	<0.05				220	804	16.3	< 1.0	2.4	1
MW009	1/20/2004		0.030	0.04																
MW009	6/24/2004		0.027	0.03																
MW009A	1/20/2004		1.5	1.38																
MW009A	7/8/2004		0.28	0.14																
MW010	1/21/2004		0.009	0.01																
MW010	6/23/2004		0.011	0.01																
MW011	12/8/2003	4.36	3.0	4.47	<0.05			578		<0.05	<0.05				131	702	15.4	<1.0	<0.1	<0.1
MW011	1/6/2004	4.68	1	4.45	<0.05			770		<0.05	<0.05				156	710	11.7	<1.0	<0.1	<0.1
MW011	3/2/2004	4.06	3.0	4.08	<0.05			540		1.75	<0.05				120	661	11.1	< 1.0	0.6	<0.1
MW011	6/10/2004		2.8																	
MW011	6/14/2004	3.93	2.6	3.79	<0.01			540		<0.05	<0.05				124	638	10.5	< 1.0	0.2	<0.1
MW011	7/8/2004		3.2																	
MW011	7/13/2004	3.96	3.6	3.04	<0.01			577		<0.05	0.09				138	712	13.0	< 1.0	0.3	<0.1
MW011	8/11/2004		1.8																	
MW011	8/12/2004	3.92	2.8	3.56	<0.01			571		<0.05	<0.05				123	618	10.1	< 1.0	0.1	<0.1
MW011	9/14/2004		1.7																	
MW011	9/15/2004	4.21	1.7	3.94	<0.01			627		<0.05	<0.05				136	836	13.5	< 1.0	<0.1	<0.1
MW011A	12/8/2003	0.12	0.061	0.1	<0.05			165		0.15	0.14				75.1	230	14.1	<1.0	<0.1	0.1
MW011A	1/6/2004	0.19	0.068	0.16	<0.05			220		0.12	0.12				93	270	12.6	<1.0	<0.1	<0.1
MW011A	3/4/2004	<0.05	0.6	1.07	<0.05			446		0.22	0.43				86.0	615	11.1	< 1.0	11.5	<0.1
MW011A	6/10/2004		3.6																	
MW011A	6/14/2004	3.18	2.8	2.64	<0.01			1750		0.08	0.07				111	1560	13.5	< 1.0	0.7	<0.1
MW011A	7/8/2004		3.4																	
MW011A	7/12/2004	2.37	1.9	2.04	0.01			499		<0.05	<0.05				132	584	13.9	< 1.0	<0.1	<0.1
MW011A	8/11/2004		1.7																	
MW011A	8/12/2004	3.5	1.9	2.73	<0.01			702		<0.05	<0.05				121	744	14.3	< 1.0	<0.1	<0.1
MW011A	9/15/2004	2.45	1.3	2.13	<0.01			398		<0.05	<0.05				115	504	11.8	< 1.0	<0.1	<0.1
MW011M	12/4/2003	2.93	1.6	2.98	<0.05			610		0.06	0.06				270	687	14	<1.0	<0.1	<0.1
MW011M	1/6/2004	2.66	0.69	2.43	<0.05			760		<5	0.06				284	550	10.6	<1.0	<0.1	<0.1
MW011M	3/2/2004	4.00	3.7	3.99	<0.05			618		<0.05	0.13				187	856	17.5	< 1.0	0.7	<0.1
MW011M	6/10/2004		<0.005																	
MW011M	6/14/2004	0.67	0.037	0.06	<0.01			436		1.86	1.88				137	468	14	<1	7.3	<0.1
MW011M	7/8/2004		<0.005																	
MW011M	7/13/2004	0.44	<0.005	<0.05	<0.01			584		3.26	3.32				163	623	19.9	1.1	3.2	0.3
MW011M	8/11/2004		<0.005																	
MW011M	8/16/2004	0.24	<0.005	<0.05	<0.01			679		3.64	3.42				165	698	16.2	1.2	1	0.2
MW011M	9/14/2004		<0.005																	
MW011M	9/15/2004	0.15	<0.02	0.09	0.01			835		<0.05	<0.05				383	850	12.3	< 1.0	16.4	3.5
MW012	12/8/2003	3.29	1.2	3.19	<0.05			310		<0.05	<0.05				96.4	362	23.2	<1.0	<0.1	<0.1
MW012	1/7/2004	2.82	0.6	2.67	<0.05			385		<0.05	<0.05				109	416	21	1.2	0.3	<0.1
MW012	2/18/2004	3.76	0.79	2.18	<0.05			560		<0.05	<0.05				119	640	18.5	< 1.0	0.5	<0.1
MW012	6/8/2004	3.29	2.0	2.84	0.02			526		<0.05	<0.05				122	513	17.0	< 1.0	0.6	<0.1
MW012	7/13/2004	2.95	2.5	2.51	0.01			534		<0.05	<0.05				125	544	20.1	< 1.0	1.3	<0.1
MW012	8/12/2004	3.49	1.4	2.98	0.01			539		<0.05	<0.05				121	518	17.3	< 1.0	0.2	<0.1
MW012	9/9/2004	3.08	1.3	2.35	0.01			416		<0.05	<0.05				108	467	16.9	< 1.0	0.1	<0.1
MW012A	12/9/2003	<0.05	<0.005	<0.05	<0.05			78.4		0.27	0.27				23.8	105	18.2	<1.0	0.2	0.1
MW012A	1/7/2004	<0.05	<0.005	<0.05	<0.05			68.3		0.29	0.28				21.7	84.7	13.4	<1.0	0.3	0.1
MW012A	2/19/2004	<0.05	<0.005	<0.05	<0.05			35.7		<0.05	<0.05				16.5	94.9	5.5	< 1.0	0.2	<0.1
MW012A	6/8/2004	<0.05	<0.005	<0.05	0.02			42.8		0.05	<0.05				17.2	87.9	6	< 1.0	2.2	<0.1

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Table 4
Groundwater Analytical Results
Metals
ChevronTexaco Eunice #2 (North) Gas Plant
(mg/L unless noted)

Station Name	Sample Collection Date	Chromium (Total)	Hexavalent Chromium, Dissolved	Chromium, Dissolved	Arsenic	Barium	Cadmium	Calcium	Lead	Manganese	Manganese, Dissolved	Mercury	Selenium	Silver	Magnesium	Sodium	Potassium	Ferrous iron	Iron	Iron, Dissolved
MW012A	7/14/2004	<0.05	0.050	<0.05	0.02			34.7		<0.05	<0.05				16.0	111	9.1	< 1.0	0.1	<0.1
MW012A	8/12/2004	<0.05	<0.005	<0.05	0.03			37.6		<0.05	<0.05				16.2	99.7	6.9	< 1.0	1	<0.1
MW012A	9/9/2004	<0.05	<0.005	<0.05	0.02			39		<0.05	<0.05				17.5	103	8.1	< 1.0	2.4	<0.1
MW012M	12/9/2003	1.59	0.61	1.54	<0.05			335		<0.05	<0.05				136	321	10.6	<1.0	<0.1	<0.1
MW012M	1/7/2004	1.15	0.6	1.12	<0.05			333		<0.05	<0.05				127	215	8.5	1.7	<0.1	<0.1
MW012M	2/19/2004	1.66	0.76	1.67	<0.05			400		<0.05	<0.05				135	400	9.9	< 1.0	1.6	0.2
MW012M	6/8/2004	1.37	1.4	1.25	<0.01			360		<0.05	<0.05				129	249	9.5	< 1.0	0.2	<0.1
MW012M	7/14/2004	0.69	0.28	0.60	0.02			309		0.58	0.54				132	317	10.4	1.3	0.3	<0.1
MW012M	8/12/2004	<0.05	<0.005	<0.05	0.07			331		4.61	4.48				133	242	7	< 1.0	0.2	<0.1
MW012M	9/9/2004	<0.05	<0.005	<0.05	0.11			281		<0.05	<0.05				166	282	7.2	< 1.0	0.1	<0.1
MW013	1/19/2004		0.19	0.21																
MW013	6/30/2004		0.69	1.04																
MW013A	1/19/2004		0.50	0.75																
MW013A	7/7/2004		0.54	0.60																
MW014	1/6/2004		0.19	0.48																
MW014	6/30/2004		0.16	0.44																
MW014A	12/29/2003		<0.005	<0.01																
MW014A	6/17/2004		<0.005	<0.05																
MW015	12/30/2003		0.023	0.01																
MW015	6/24/2004		0.005	0.01																
MW015A	12/29/2003		<0.005	<0.01																
MW015A	6/17/2004		<0.005	<0.05																
MW016A	12/29/2003		<0.005	<0.01																
MW016A	6/17/2004		<0.005	<0.05																
MW017A	12/30/2003		0.010	<0.01																
MW017A	6/23/2004		<0.005	<0.01																
MW018	12/30/2003		<0.005	<0.01																
MW018	6/17/2004		<0.005	<0.05																
MW018A	12/30/2003		<0.005	<0.01																
MW018A	6/16/2004		0.006	<0.05																
MW019A	12/30/2003		<0.005	<0.01																
MW019A	6/17/2004		<0.005	<0.05																
MW020	1/22/2004		0.016	<0.01																
MW020	6/23/2004		<0.005	<0.01																
MW020A	1/22/2004		0.005	0.02																
MW020A	6/22/2004		0.010	0.01																
MW021	1/21/2004		<0.005	<0.01																
MW021	6/22/2004		<0.005	<0.01																
MW021A	1/21/2004		<0.005	<0.01																
MW021A	6/22/2004		<0.005	<0.01																
MW022A	1/22/2004		0.013	0.04																
MW022A	6/23/2004		0.033	0.03																
MW023	1/21/2004		0.8	1.57																
MW023	7/7/2004		0.58	0.99																
MW023A	1/15/2004		<0.005	<0.01																
MW023A	6/16/2004		<0.005	<0.05																
MW024	1/15/2004		<0.005	<0.01																
MW024	6/22/2004		<0.005	<0.01																
MW024A	1/15/2004		0.043	0.06																
MW024A	6/24/2004		0.102	0.25																
MW025	1/7/2004		0.008	0.01																
MW025	6/22/2004		<0.005	<0.01																
MW026	1/6/2004		<0.005	<0.01																
MW026	6/15/2004		<0.005	<0.05																
MW027	1/6/2004		<0.005	<0.01																

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Metals
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(mg/L unless noted)

Station Name	Sample Collection Date	Chromium (Total)	Hexavalent Chromium, Dissolved	Chromium, Dissolved	Arsenic	Barium	Cadmium	Calcium	Lead	Manganese	Manganese, Dissolved	Mercury	Selenium	Silver	Magnesium	Sodium	Potassium	Ferrous iron	Iron	Iron, Dissolved
MW027	6/17/2004		<0.005	<0.05																
MW028	1/28/2004		<0.005	<0.01																
MW028	6/9/2004		<0.005	<0.01																
MW029	1/13/2004		<0.005	<0.01																
MW029	6/10/2004		<0.005	<0.05																
MW030	1/13/2004		<0.005	<0.01																
MW030	6/15/2004		<0.005	<0.05																
MW031	1/12/2004		<0.005	<0.01																
MW031	6/15/2004		<0.005	<0.05																
MW032	1/7/2004		<0.005	<0.01																
MW032	6/15/2004		<0.005	<0.05																
MW033	1/7/2004		<0.005	<0.05																
MW033	7/28/2004		0.006	<0.01																
MW034	1/19/2004		0.062	0.07																
MW034	6/24/2004		0.057	0.07																
MW035	1/20/2004		<0.005	<0.01																
MW035	6/22/2004		<0.005	<0.01																
MW036	1/27/2004		<0.005	<0.01																
MW036	7/27/2004		<0.005	<0.01																
MW037	1/27/2004		<0.005	<0.01																
MW037	7/28/2004		<0.005	<0.05																
MW038	1/27/2004		<0.005	<0.01																
MW038	7/28/2004		<0.005	0.28																
MW039A	1/20/2004		0.056	0.07																
MW039A	6/24/2004		0.105	0.12																
MW040A	1/19/2004		<0.005	<0.01																
MW040A	6/16/2004		<0.005	<0.05																
MW041A	1/19/2004		0.30	0.64																
MW041A	7/1/2004		0.26	0.61																
MW042A	1/20/2004		<0.005	<0.01																
MW042A	6/15/2004		<0.005	<0.05																
MW043	1/21/2004		<0.005	<0.01																
MW043	6/22/2004		<0.005	<0.01																
MW044	1/19/2004		0.034	0.03																
MW044	6/24/2004		0.16	0.1																
MW045	1/22/2004		<0.005	<0.01																
MW045	7/27/2004		<0.005	<0.05																
MW046	1/27/2004		<0.005	0.05																
MW046	7/27/2004		<0.005	0.03																
MW046A	1/27/2004		0.014	0.06																
MW046A	7/27/2004		0.006	0.04																
MW047	1/20/2004		0.061	0.03																
MW047	6/24/2004		0.045	0.07																
MW048SA	12/17/2003		0.085	0.16																
MW048SA	6/29/2004		0.13	0.18																
MW049SA	12/17/2003		0.099	0.13																
MW049SA	6/29/2004		0.043	0.06																
MW050SA	12/17/2003		0.061	0.12																
MW050SA	6/24/2004		0.023	0.04																
MW051SA	12/17/2003		0.34	0.78																
MW051SA	7/1/2004		0.39	0.73																
MW052SA	12/18/2003		0.30	0.42																
MW052SA	7/1/2004		0.32	0.37																
MW053SA	12/18/2003		0.36	<0.05																
MW053SA	2/18/2004		<0.005	<0.05							<0.05									<0.1

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Metals
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Station Name	Sample Collection Date	Chromium (Total)	Hexavalent Chromium, Dissolved	Chromium, Dissolved	Arsenic	Barium	Cadmium	Calcium	Lead	Manganese	Manganese, Dissolved	Mercury	Selenium	Silver	Magnesium	Sodium	Potassium	Ferrous iron	Iron	Iron, Dissolved
MW053SA	3/4/2004		<0.005	<0.05							<0.05									<0.1
MW053SA	7/7/2004		0.014	<0.05																
MW054SA	12/16/2003		0.24	0.29																
MW054SA	2/17/2004		0.31	0.26							<0.05									<0.1
MW054SA	6/30/2004		0.12	0.17																
MW055SA	12/16/2003		0.13	0.17																
MW055SA	3/10/2004	0.13	0.15	0.14	<0.05			134		<0.05	<0.05				83.1	202	7.7	< 1.0	0.2	<0.1
MW055SA	6/29/2004		0.13	0.18																
MW056SA	12/16/2003		0.27	0.37																
MW056SA	7/1/2004		0.21	0.37																
MW057SA	12/17/2003		<0.005	<0.01																
MW057SA	6/16/2004		<0.005	<0.05																
MW058	1/13/2004		0.009	<0.05																
MW058	6/22/2004		0.009	0.01																
MW059	1/15/2004		<0.005	<0.01																
MW059	6/16/2004		<0.005	<0.05																
MW060	1/12/2004		0.012	0.02																
MW060	6/23/2004		0.009	0.01																
MW061	1/8/2004		1.7	4.44																
MW061	7/8/2004		3.1	3.84																
MW062A	1/15/2004		<0.005	<0.01																
MW062A	6/17/2004		<0.005	<0.05																
MW063A	1/14/2004		<0.005	<0.01																
MW063A	6/15/2004		<0.005	<0.05																
MW064SA	12/10/2003		0.26	0.31																
MW064SA	3/10/2004	0.21	0.29	0.22	<0.05			274		<0.05	<0.05				118	656	9.2	< 1.0	<0.1	<0.1
MW064SA	6/7/2004	0.18	0.106	0.16	<0.01			314		<0.05	<0.05				143	596	13	< 1.0	1.3	<0.1
MW064SA	7/22/2004	0.07	0.072	0.12	<0.01			439		0.12	<0.05				170	652	11.0	< 1.0	3.5	<0.1
MW064SA	8/24/2004	0.08	0.1	0.15	<0.01			383		0.1	<0.01				138	592	9.14	< 1.0	3.08	<0.25
MW065SA	12/10/2003		<0.005	<0.05																
MW065SA	6/16/2004		0.009	<0.05																
MW066SA	12/16/2003		0.16	0.26																
MW066SA	6/30/2004		0.19	0.23																
MW067SA	12/10/2003		<0.005	<0.05																
MW067SA	2/17/2004		<0.005	<0.05							<0.05									<0.1
MW067SA	6/16/2004		<0.005	<0.05																
MW068	1/8/2004		<0.005	<0.01																
MW068	6/15/2004		<0.005	<0.05																
MW069	1/8/2004		<0.005	<0.01																
MW069	6/15/2004		<0.005	<0.05																
MW070	1/13/2004		<0.005	<0.01																
MW070	6/15/2004		<0.005	<0.05																
MW070A	1/13/2004		<0.005	<0.01																
MW070A	6/16/2004		<0.005	<0.05																
MW071SA	12/15/2003		0.073	0.15																
MW071SA	6/9/2004	<0.01	<0.005	<0.01	<0.01			<0.625		<0.01	0.05				<0.625	102	5.53	< 1.0	<0.25	2.00
MW071SA	6/23/2004		0.008	0.01																
MW071SA	7/8/2004		0.008	<0.05																
MW071SA	7/27/2004		<0.005	<0.05																
MW071SA	8/9/2004		0.006	<0.05																
MW071SA	8/24/2004		0.17																	
MW072SA	12/15/2003		<0.005	<0.01																
MW072SA	6/17/2004		<0.005	<0.05																
MW073SA	12/15/2003		<0.005	<0.01																
MW073SA	6/17/2004		<0.005	<0.05																

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Station Name	Sample Collection Date	Chromium (Total)	Hexavalent Chromium, Dissolved	Chromium, Dissolved	Arsenic	Barium	Cadmium	Calcium	Lead	Manganese	Manganese, Dissolved	Mercury	Selenium	Silver	Magnesium	Sodium	Potassium	Ferrous iron	Iron	Iron, Dissolved
MW074SA	2/3/2004																	<1.0		
MW074SA	2/4/2004	<0.05	<0.005	<0.05	<0.05	0.06	<0.01	250	<0.01	<0.05	<0.05	<0.0002	0.01	<0.05	116	422	7.7	<1.0	0.9	<0.1
MW074SA	6/10/2004		<0.005	<0.05																
MW075SA	2/5/2004	<0.05	<0.005	<0.05	<0.05	0.08	<0.01	397	<0.01	<0.05	<0.05	<0.0002	0.04	<0.05	141	406	7.2	<1.0	1.6	<0.1
MW075SA	6/10/2004		0.052	<0.05																
MW076SA	2/4/2004	<0.05	<0.005	<0.05	<0.05	0.25	<0.01	354	<0.01	0.14	<0.05	<0.0002	<0.01	<0.05	77.0	207	8.7	<1.0	8.5	<0.1
MW076SA	6/10/2004		<0.005	<0.05																
MW077SA	2/3/2004	<0.05	<0.005	<0.05	<0.05	0.16	<0.01	307	<0.01	0.12	<0.05	<0.0002	<0.01	<0.05	87.4	243	7.3		4.6	<0.1
MW077SA	6/14/2004		<0.005	<0.05																
MW078SA	3/24/2004	<0.05	<0.005	<0.05	<0.01	0.03	<0.01	170	<0.01	<0.05	<0.05	<0.002	0.01	<0.005	1.28	118	23.7	< 1.0	0.3	<0.1
MW078SA	6/14/2004		<0.005	<0.05																
MW079SA	3/18/2004	0.11	0.078	<0.05	0.01	0.16	<0.01	366	<0.01	0.06	0.1	<0.002	0.04	<0.005	122	469	10.0	< 1.0	2.4	0.4
MW079SA	6/3/2004	<0.05	<0.005	<0.05	0.02			441		0.89	0.78				123	425	34	<1	18.9	1
MW079SA	7/7/2004	<0.2	<0.1	<0.2	<0.05			2050		22.6	17				275	403	585	77	66.3	56.8
MW079SA	8/17/2004	<0.5	<0.005	<0.05	<0.1			2910		20	1.11				263	336	537	25	46	2.9
MW080SA	3/17/2004	<0.05	0.029	<0.05	<0.01	0.05	<0.01	243	<0.01	<0.05	<0.05	<0.002	0.02	<0.005	94.2	336	8.0	1.4	<0.1	<0.1
MW080SA	6/3/2004	<0.05	0.028	<0.05	<0.01			135		<0.05	<0.05				109	182	7.9	<1	1.0	<0.1
MW080SA	7/7/2004	0.022	< 0.02	0.025	0.038			520		9.8	12				150	350	250	< 1.0	21	22
MW080SA	8/17/2004	<0.05	0.023	<0.05	<0.01			245		<0.05	<0.05				120	313	9.6	< 1.0	1.5	1.5
MW081SA	3/25/2004	0.16	0.086	0.15	<0.01	0.18	<0.01	372	<0.01	0.18	<0.05	<0.002	0.04	<0.005	142	419	13.3	1.5	9.8	0.1
MW081SA	6/3/2004	0.05	<0.1	0.06	0.06			792		12.2	13.2				255	366	138	11	24.4	26.8
MW081SA	7/7/2004	0.022	0.05	0.022	0.012			180		0.020	<0.10				100	180	9.7	25	1.0	< 0.050
MW081SA	8/17/2004	0.08	<0.1	0.07	0.03			1510		<0.05	<0.05				452	467	132	43	35.5	35.1
MW082SA	3/25/2004	<0.05	0.006	<0.05	<0.01	0.11	<0.01	263	<0.01	0.09	<0.05	<0.002	0.03	<0.005	101	673	10.2	1.3	3.3	0.2
MW082SA	6/8/2004	<0.05	<0.1	<0.05	<0.01			1520		9.12	5.74				361	535	11.0	30	13.0	9.0
MW082SA	7/21/2004	0.12	<0.1	0.08	<0.01			2010		30.5	22.7				545	668	719	58	51	37.8
MW082SA	8/23/2004	0.2	<0.1	0.2	<0.1			2110		27.8	24.6				523	649	575	170	154	97.4
MW083SA	3/25/2004	<0.05	0.008	<0.05	<0.01	0.1	<0.01	302	<0.01	0.1	<0.05	<0.002	0.03	<0.005	115	746	10.9	1.6	4.6	0.2
MW083SA	6/8/2004	<0.05	<0.1	<0.05	<0.01			548		5.47	5.10				207	679	12.3	20	17.0	15.7
MW083SA	7/22/2004	<0.5	<0.1	<0.5	<0.1			3120		31.6	26.1				708	713	21	47	40	3.2
MW083SA	8/23/2004	0.2	0.2	0.2	<0.1			2560		37.6	37.8				646	639	88.9	110	299	77.3
MW084SA	3/24/2004	0.08	0.069	0.08	<0.01	0.09	<0.01	513	<0.01	0.1	<0.05	<0.002	0.03	<0.005	209	781	15.1	< 1.0	3.8	<0.1
MW084SA	6/7/2004	0.1	0.18	0.09	<0.01			645		<0.05	<0.05				302	896	19	< 1.0	1	<0.1
MW084SA	7/22/2004	0.11	0.063	0.1	<0.01			620		<0.05	<0.05				294	833	14.8	< 1.0	2.1	1.2
MW084SA	8/24/2004	0.1	0.092	0.09	<0.01			704		0.07	<0.01				330	966	15	< 1.0	3.43	<0.25
MW085SA	3/25/2004	0.16	0.090	0.21	<0.01	0.10	<0.01	319	<0.01	<0.05	<0.05	<0.002	0.03	<0.005	128	730	11.2	1.6	2.8	0.2
MW085SA	6/7/2004	<0.01	<0.005	<0.01	<0.01			388		<0.01	<0.01				180	841	15.2	< 1.0	<0.25	<0.25
MW085SA	6/8/2004			0.06							<0.05									<0.1
MW085SA	7/22/2004	<0.05	0.005	<0.05	<0.01			373		<0.05	<0.05				159	859	11.1	< 1.0	0.5	<0.1
MW085SA	8/23/2004	0.01	0.008	0.01	<0.01			442		0.01	<0.01				152	929	10.5	< 1.0	<0.25	<0.25
MW086SA	9/14/2004	<0.05	<0.005	<0.05	<0.01			491		<0.05	<0.05				227	848	14.4	2.6	0.1	<0.1
MW087A	9/14/2004	4.23	1.8	4.29	<0.01			452		<0.05	<0.05				172	686	12.5	2.3	0.2	<0.1
MW087A	10/5/2004	3.82	1.8	3.66	<0.01			400		<0.05	<0.05				136	520	10.7		<0.1	<0.1
MW088M	9/13/2004																	120		
MW088M	9/18/2004	0.53	<0.05	0.37	<0.01			1460		<0.05	<0.05				293	286	27.3		259	216
MW088M	10/7/2004	1.1	<0.1	1.2	<0.1			3010		73.4	72.8				554	542	79		584	585
RowlandWW	1/26/2004		<0.005	<0.01																
RowlandWW	6/22/2004		<0.005	<0.01																
RW002	12/8/2003	3.67	1.6	4.04	<0.05			635		<0.05	<0.05				141	736	17.1	<1.0	<0.1	<0.1
RW002	1/7/2004	4.51	2.1	3.99	<0.05			728		<0.05	<0.05				162	686	12.5	2.1	<0.1	<0.1
RW002	3/4/2004	4.15	0.4	4.07	<0.05			632		0.08	0.07				152	763	11.9	< 1.0	0.1	<0.1
RW002	6/10/2004		3.7																	
RW002	6/14/2004	3.90	2.6	3.75	<0.01			536		0.05	<0.05				145	736	10.7	< 1.0	0.2	<0.1
RW002	7/8/2004		1.8																	
RW002	7/13/2004	3.58	2.4	4.03	<0.01			575		0.06	<0.05				159	737	12.3	< 1.0	0.2	<0.1

Table 4
Groundwater Analytical Results
Metals
ChevronTexaco Eunice #2 (North) Gas Plant
(mg/L unless noted)

ARCADIS

Station Name	Sample Collection Date	Chromium (Total)	Hexavalent Chromium, Dissolved	Chromium, Dissolved	Arsenic	Barium	Cadmium	Calcium	Lead	Manganese	Manganese, Dissolved	Mercury	Selenium	Silver	Magnesium	Sodium	Potassium	Ferrous iron	Iron	Iron, Dissolved
RW002	8/11/2004		0.9																	
RW002	8/16/2004	3.47	6.3	3.12	<0.01			594		0.07	0.1				151	673	11	< 1.0	<0.1	<0.1
RW002	9/15/2004		0.06																	
RW002	9/16/2004	3.09	1.3	3.02	<0.01			599		0.16	0.2				150	814	11.8	< 1.0	<0.1	<0.1
RW003	12/9/2003	2.94	0.90	2.85	<0.05			489		<0.05	<0.05				109	457	12.3	<1.0	<0.1	<0.1
RW003	1/7/2004	2.97	0.9	3.05	<0.05			660		<0.05	<0.05				130	689	11.0	<1.0	<0.1	<0.1
RW003	2/19/2004	0.99	0.63	0.85	<0.05			440		<0.05	<0.05				90.2	440	8.4	< 1.0	0.4	<0.1
RW003	6/8/2004	1.11	0.9	1.06	<0.01			533		<0.05	<0.05				98.1	443	10.1	< 1.0	<0.1	<0.1
RW003	7/14/2004	0.59	0.34	0.79	<0.01			477		<0.05	<0.05				98.9	358	10.5	< 1.0	0.6	<0.1
RW003	8/16/2004	2.01	3.7	1.99	<0.01			621		<0.05	<0.05				111	466	11.4	< 1.0	0.2	<0.1
RW003	9/9/2004	1.02	0.47	0.85	<0.01			468		0.06	0.06				90.7	423	10.6	< 1.0	<0.1	<0.1
RW004A	12/9/2003	0.21	<0.01	0.23	<0.05			16900		17.9	11.1				2220	2710	27900	140	123	124
RW004A	1/8/2004	<0.5	<0.005	<0.5	<0.5			2140		8.8	11.0			<0.5	490	400	5840	71	84	75
RW004A	3/2/2004	0.77	<0.05	0.78	<0.05			4400		82.5	35.7				398	409	2830	310	543	532
RW004A	6/8/2004	0.26	<0.1	0.21	<0.01			4700		36.4	29.4				446	243	4960	320	225	191
RW004A	7/8/2004	0.3	<0.1	0.2	<0.01			3370		35.1	19				412	270	3350	430	291	221
RW004A	8/11/2004	<0.05	<0.1	<0.05	<0.01			541		3.11	2.86				78.9	42	687	220	35.1	30.9
RW004A	9/16/2004	<0.2	<0.1	<0.2	<0.05			1580		5.2	5				183	168	2230	200	166	166
RW004A	10/5/2004	<0.05	0.2	0.08	<0.01			1510		0.6	4.38				262	260	3420		80	54.7
WoodellWW	1/21/2004		<0.005	<0.01																
WoodellWW	6/21/2004		0.021	0.02																

Notes:
EP - Eunice Plant
GOP - Gulf Oil Corp.
WW - Water Well
MW - Monitoring Well
RW - Recovery Well
IW - Injection Well
No Suffix - Shallow/Middle Monitoring Well Completion (MW069)
A - Deep Monitoring Well Completion (MW070A)
M - Middle Monitoring Well Completion (MW008M)
SA - Shallow/Deep, Fully-Penetrating, Monitoring Well Completion (MW071SA)
<0.05 concentration reported at less than laboratory quantitation limit, the numeral (0.05) indicates the lowest-quantitation limit available.

Table 5
Groundwater Analytical Results
Inorganics (Nonmetals), Total Organic Carbon (TOC), and Gases
ChevronTexaco Eunice #2 (North) Gas Plant
(mg/L unless noted)

ARCADIS

Station Name	Sample Collection Date	Alkalinity	Carbonate (CO3)	Bicarbonate	Bromide	Chloride	Sulfate	Sulfide, Total	Nitrate-Nitrite Nitrogen	Total Dissolved Solids	Total Organic Carbon	Permanent Gases			
												Carbon Dioxide	Methane (ug/L)	Nitrogen	Oxygen
EPWW1	1/22/2004					860									
EPWW1	7/1/2004					880									
GOPWW2	1/14/2004					780									
GOPWW2	6/15/2004					790									
IW001	12/9/2003	3160	<5.0	3160	<20	1400	1370	<1	<2		22000	1300	9.6	2.5	0.056
IW001	1/8/2004	2050	<5.0	2050	<20	1300	750	<1	4	24500	21000	1100	10	0.82	<0.15
IW001	3/4/2004	3330	<5.0	3330	<20	1300	2390	1	<2		12000	1100	12	1.7	<0.15
IW001	6/10/2004	<5.0	<5.0	<5.0		3800	1700	<1	<2		26000	810	1.2	0.51	<0.25
IW001	7/14/2004	<5.0	<5.0	<5.0	<20	2800	1400	1	<2		42400				
IW001	8/11/2004	<5.0	<5.0	<5.0		2100	1190	1	<2		19000	1400	2.9	1.4	0.26
IW001	9/15/2004	<5.0	<5.0	<5.0	<20	1320	900	<1	<2		23000	800	1.4	1.4	< 0.25
IW002	12/10/2003	3140	<5.0	3140	<20	1230	300	<1	<2		24000	1600	50	1.0	< 0.15
IW002	1/8/2004	1110	<5.0	1110	<20	1150	960	<1	<2	17900	16000	840	220	5.3	<0.15
IW002	2/23/2004	1710	<5.0	1710	<2	860	970	2	2		7000	1200	12	3.9	<0.45
IW002	6/10/2004	1100	<5.0	1100		1200	600	1	<2		6000	960	3.6	1.2	< 0.25
IW002	7/8/2004	<5.0	<5.0	<5.0	<20	2200	1220	1	2		34000	880	2.1	1.0	<0.25
IW002	7/14/2004											930	1.1	1.9	< 0.25
IW002	8/16/2004	<5.0	<5.0	<5.0		1700	800	1	<2		24000	1200	2.2	1.2	< 0.25
IW002	9/9/2004	309	<5.0	309		640	400	1	<2		6000	1100	9.0	2.4	<0.25
IW002	10/7/2004	<5.0	<5.0	<5.0		1640	900	4	<2		29000				
IW003	12/17/2003	188	<5.0	188	4	1800	650	<0.05	2.5	4380	5	24	14	14	7.7
IW003	6/3/2004	1840	<5.0	1840		3100	1620	1	<2		30000	1400	0.91	1.5	< 0.25
IW003	7/8/2004	6650	<5.0	6650	<20	1500	1000	1	<2		30000	1100	31	2.2	< 0.25
IW003	8/18/2004	101	<5.0	101	<20	2300	1500	1	<2		40000	720	0.54	1.2	< 0.25
IW004	12/18/2003	234	<5.0	234	4	680	640	<0.05	1.6	2450	4	22	1.3	16	8.7
IW004	6/9/2004	3770	<5.0	3770	<20	2080	1240	<1	<2		16000	640	1.5	1.3	<0.25
IW004	7/8/2004	580	<5.0	580	<20	2900	1650	1	<2		46700	890	2.8	4.9	0.60
IW004	8/18/2004	<5.0	<5.0	<5.0	<20	1900	1200	1	<2		34000	700	1.7	1.6	<0.25
IW005	12/18/2003	198	<5.0	198	3	620	360			1940					
IW005	2/25/2004							0.05	<1		3	22	1.5	13	5.0
IW005	6/9/2004	981	<5.0	981	<20	1920	1100	<1	<2		14000	690	2.4	1.6	0.090
IW005	7/8/2004	657	<5.0	657	<20	2100	1210	1	<2		69	880	1.1	2.9	0.33
IW005	8/18/2004											920	4.8	1.3	< 0.25
IW006	12/18/2003	254	<5.0	254	3	550	270			1640					
IW006	2/25/2004							0.13	<1		2	18	1.4	14	6.1
IW006	6/9/2004	<5.0	<5.0	<5.0		2700	1500	<1	<2		20000	710	1.4	2.0	< 0.25
IW006	7/20/2004	<5.0	<5.0	<5.0	<20	2600	2300	1	<2		42800	1400	8.9	12	3.4
IW006	8/18/2004	<5.0	<5.0	<5.0	<20	2100	1200	<1	<2		38000	480	0.33	1.4	<0.25
IW007	2/26/2004	163	<5.0	163	4	840	400	0.05	<1	2120	2	12	5.7	15	7.7
IW007	6/9/2004	2800	<5.0	2800		1630	800	<1	<2		14000	630	4.8	1.6	<0.25
IW007	7/20/2004	3790	<5.0	3790	<20	2300	1100	1	<2		35400	270	140	5.2	<0.25
IW007	8/19/2004	<5.0	<5.0	<5.0	<20	2500	1500	1	<2		34000	950	14	1.4	<0.25
IW008	2/26/2004	268	<5.0	268	<2	210	170	<0.05	1	880	4				
IW008	6/9/2004	2250	<5.0	2250		1010	500	<1	<2		8000	840	20	0.85	< 0.25
IW008	7/20/2004	3850	<5.0	3850	<20	1800	1000	<1	<2		26800	1500	98	2.8	<0.50
IW008	8/19/2004	383	<5.0	383	<20	1200	600	1	<2		15000	800	11	4.9	<0.25
IW009	6/9/2004	770	<5.0	770		2250	1300	1	<2		20000	680	2.3	1.2	<0.25
IW009	7/20/2004	3010	<5.0	3010	<20	2600	2800	<1	<2		38400	290	1.2	11	1.1
IW009	8/19/2004	<5.0	<5.0	<5.0	<20	1800	1100	1	<2		27000	750	7.0	3.8	<0.25
IW010	12/18/2003	349	<5.0	349	4	330	220			2780					
IW010	2/26/2004							<0.05	<1		4	45	5.9	14	6.3
IW010	6/9/2004	4220	<5.0	4220		2050	1000	<1	<2		13000	780	12	1.2	< 0.25
IW010	7/21/2004	9900	<5.0	9900	<20	2300	1200	1	<2		33500	340	180	5.5	0.96
IW010	8/19/2004	5360	<5.0	5360	<20	2300	1200	1	<2		29000	1000	7.3	3.1	<0.25
IW011	12/18/2003	230	<5.0	230	5	1050	410	<0.05	<0.4	2960	3	28	1.1	16	8.4
IW011	6/8/2004	1040	<5.0	1040		1500	840	<1	<2		11000	580	3.3	1.00	<0.25
IW011	7/21/2004	7140	<5.0	7140	<20	2100	1100	2	<2		32200	920	65	4.2	<0.25
IW011	8/19/2004	213	<5.0	213	<20	2000	1200	1	<2		37000	1200	3.2	2.2	<0.25
IW012	6/8/2004	1400	<5.0	1400		2300	1250	1	<2		10000	760	2.9	1.2	< 0.25
IW012	8/19/2004	<5.0	<5.0	<5.0	<20	1600	900	1	<2		27000	970	2.1	1.7	<0.25
IW013	2/10/2004	223	<5.0	223	3	1080	550	0.09	2	2710	3	18	0.62	12	5.3
IW013	6/8/2004	1100	<5.0	1100		2700	1450	1	<2		11000	830	1.3	1.7	< 0.25
IW013	7/21/2004	2590	<5.0	2590	<20	2000	1100	2	<2		24200	900	41	3.5	< 0.25
IW013	8/19/2004	1290	<5.0	1290	<20	1300	700	1	<2		21000	960	5.4	2.1	0.40

Table 5
Groundwater Analytical Results
Inorganics (Nonmetals), Total Organic Carbon (TOC), and Gases
ChevronTexaco Eunice #2 (North) Gas Plant
(mg/L unless noted)

ARCADIS

Station Name	Sample Collection Date	Alkalinity	Carbonate (CO3)	Bicarbonate	Bromide	Chloride	Sulfate	Sulfide, Total	Nitrate-Nitrite Nitrogen	Total Dissolved Solids	Total Organic Carbon	Permanent Gases			
												Carbon Dioxide	Methane (ug/L)	Nitrogen	Oxygen
IW014	2/11/2004	334	<5.0	334	4	1400	670	<0.05	7	3810	9	32	2.7	15	5.9
IW014	6/10/2004	622	<5.0	622		1800	1000	<1	<2		9000	980	13	1.1	<0.25
IW014	7/21/2004	3020	<5.0	3020	<20	1800	1100	1	<2		26600	510	57	5.6	0.84
IW014	8/19/2004	964	<5.0	964	<20	900	500	1	<2		13000	42	3.7	4.7	0.69
IW015	2/25/2004	260	<5.0	260	4	1300	720	<0.05	5		4	29	2.2	16	6.9
IW015	6/3/2004	1750	<5.0	1750		1700	900	1	<2		12000	1200	19	2.3	< 0.25
IW015	7/8/2004	5930	<5.0	5930	<20	2200	1560	1	<2		46900	900	4.7	1.8	0.60
IW015	8/18/2004	1040	<5.0	1040	<20	1700	900	1	<2		33000	640	2.5	1.1	< 0.25
IW016	2/11/2004	214	<5.0	214	4	980	590	0.06	3	2710	5	25	3.6	17	6.5
IW016	6/3/2004	1070	<5.0	1070		2300	1190	1	<2		30000	1400	1.9	1.6	< 0.25
IW016	7/7/2004	4790	<5.0	4790	<20	2100	1000	1	<2		28300	1300	6.8	1.4	<0.25
IW016	8/17/2004	132	<5.0	132	<20	2500	1500	1	<2		64000	1400	1.1	0.76	< 0.25
LordWW	1/22/2004					70									
LordWW	6/21/2004					100									
MW001	1/26/2004					90									
MW001	7/28/2004					630									
MW002	1/20/2004					400									
MW002	6/23/2004					410									
MW002A	1/20/2004					430									
MW002A	6/23/2004					510									
MW003	1/20/2004					500									
MW003	6/29/2004					740									
MW004	1/19/2004					650									
MW004	6/24/2004					370									
MW004A	1/19/2004					280									
MW004A	6/24/2004					580									
MW007	1/21/2004					410									
MW007	6/23/2004					370									
MW007A	1/21/2004					340									
MW007A	6/29/2004					230									
MW008	12/4/2003	160	<5.0	160	6	1090	1410	0.05	21		6	18	5.8	23	5.6
MW008	1/5/2004	220	<5.0	220	5	950	1170	0.05	5.9		6	13	12	18	2.5
MW008	3/1/2004	262	<5.0	262	3	1020	1320	<0.05	8		4	22	7.8	18	4.8
MW008	6/7/2004	246	<5.0	246	6	1220	1560	0.06	17.2		5	14	1.8	14	3.4
MW008	7/7/2004	219	<5.0	219	7	1200	1500	<0.05	9		7	14	1.1	14	2.0
MW008	8/10/2004	393	<5.0	393		1050	1300	0.05	7.2		5	96	18	15	2.5
MW008	9/16/2004	288	<5.0	288	7	1290	1500	0.05	9.9		6	140	2.9	16	3.8
MW008A	12/4/2003	172	<5.0	172	8	1030	1450	0.05	6.3		17	19	6.8	20	1.2
MW008A	1/5/2004	164	<5.0	164	7	1050	1390	<0.05	9.1		7	14	4.8	17	1.6
MW008A	3/1/2004	132	<5.0	132	6	1110	1850	0.06	7		5	10	5.0	13	3.6
MW008A	6/7/2004	299	<5.0	299	8	1000	2100	0.13	6.5		5	61	8.6	24	2.1
MW008A	7/7/2004	304	<5.0	304	7	1100	1700	0.06	7.1		7	65	8.6	23	1.5
MW008A	8/10/2004	253	<5.0	253		1120	1820	0.06	7.6		3	50	2.2	18	0.63
MW008A	9/16/2004	339	<5.0	339	8	1050	1700	0.05	6.4		5	270	38	16	2.3
MW008M	12/4/2003	122	<5.0	122	7	1500	1650	0.06	10.5		5	18	8.2	22	4.1
MW008M	1/6/2004	121	<5.0	121	6	1600	1860	0.06	12.4		5	9.7	1.6	18	3.9
MW008M	3/1/2004	137	<5.0	137	5	1500	1780	<0.05	9		4	11	7.4	20	4.5
MW008M	6/7/2004	409	<5.0	409	10	1370	1670	0.05	15.9		40	62	17	18	1.1
MW008M	7/7/2004	1100	<5.0	1100	12	1400	1000	9	<0.4		430	300	32	14	0.39
MW008M	8/10/2004	915	<5.0	915		1400	1000	10	2.7		260	210	26	18	0.33
MW008M	9/16/2004	1700	<5.0	1700	10	1370	400	24	<0.4		900	340	33	16	0.34
MW009	1/20/2004					280									
MW009	6/24/2004					240									
MW009A	1/20/2004					880									
MW009A	7/8/2004					370									
MW010	1/21/2004					1140									
MW010	6/23/2004					1250									
MW011	12/8/2003	153	<5.0	153	7	1170	1520	0.06	11.0		5	19	46	21	2.6
MW011	1/6/2004	141	<5.0	141	7	1400	1820	<0.05	11.3		9	15	63	17	2.4
MW011	3/2/2004	209	<5.0	209	5	1070	1720	<0.05	8		4	27	0.49	16	6.3
MW011	6/10/2004										4				
MW011	6/14/2004	164	<5.0	164		1000	2200	<0.05	9.2		4	22	0.31	14	4.0
MW011	7/8/2004										6				
MW011	7/13/2004	144	<5.0	144	7	1200	1750	0.06	9.9		6	16	5.2	16	3.7

Table 5
Groundwater Analytical Results
Inorganics (Nonmetals), Total Organic Carbon (TOC), and Gases
ChevronTexaco Eunice #2 (North) Gas Plant
(mg/L unless noted)

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Station Name	Sample Collection Date	Alkalinity	Carbonate (CO3)	Bicarbonate	Bromide	Chloride	Sulfate	Sulfide, Total	Nitrate-Nitrite Nitrogen	Total Dissolved Solids	Total Organic Carbon	Permanent Gases			
												Carbon Dioxide	Methane (ug/L)	Nitrogen	Oxygen
MW011	8/11/2004										3				
MW011	8/12/2004	159	<5.0	159		1000	1500	0.06	10.1		4	21	11	13	4.1
MW011	9/14/2004										3				
MW011	9/15/2004	152	<5.0	152	7	1200	1600	0.05	8.8		3	19	12	16	3.5
MW011A	12/8/2003	214	<5.0	214	3	310	520	<0.05	<0.4		3	23	1.4	30	1.6
MW011A	1/6/2004	231	<5.0	231	3	400	670	<0.05	<0.4		4	18	1.6	22	1.9
MW011A	3/4/2004	269	<5.0	269	3	710	1700	<0.05	4		4	89	5.6	15	3.7
MW011A	6/10/2004										5				
MW011A	6/14/2004	159	<5.0	159		1400	1600	<0.05	7.0		6	17	0.24	14	2.8
MW011A	7/8/2004										5				
MW011A	7/12/2004	185	<5.0	185	6	920	1470	<0.05	6.7		4	28	1.5	15	3.1
MW011A	8/11/2004										3				
MW011A	8/12/2004	175	<5.0	175		900	1300	0.06	7.8		5	15	17	11	0.53
MW011A	9/15/2004	173	<5.0	173	5	810	1300	0.06	6.7		3	18	0.95	13	3.3
MW011M	12/4/2003	146	<5.0	146	8	1400	1760	<0.05	9.1		6	14	4.5	19	2.0
MW011M	1/6/2004	150	<5.0	150	8	1500	2170	<0.05	9.8		6	10	1.0	22	2.4
MW011M	3/2/2004	194	<5.0	194	5	1600	2170	<0.05	8		5	45	0.41	16	2.8
MW011M	6/10/2004										100				
MW011M	6/14/2004	215	<5.0	215		700	1400	0.05	0.8		38	14	0.41	15	0.67
MW011M	7/8/2004										480				
MW011M	7/13/2004	310	<5.0	310	8	1300	1640	4	<0.4		77	29	1.7	17	0.48
MW011M	8/11/2004										710				
MW011M	8/16/2004	332	<5.0	332		900	1100	7	<0.4		200	26	1.8	9.9	0.38
MW011M	9/14/2004										700				
MW011M	9/15/2004	1460	<5.0	1460	16	1590	1200	8	1.8		1000	280	29	14	1.2
MW012	12/8/2003	144	<5.0	144	4	680	1150	0.05	10.4		5	12	1.3	18	6.2
MW012	1/7/2004	181	<5.0	181	4	700	2350	<0.05	6.2	3090	8	13	7.0	20	4.9
MW012	2/18/2004	189	<5.0	189	4	760	1330	0.05	5.9		5	12	0.86	16	6.0
MW012	6/8/2004	235	<5.0	235		830	1480	<0.05	6.8		5	20	0.96	15	5.4
MW012	7/13/2004	251	<5.0	251	5	750	1260	0.05	6.1		6	25	0.32	19	6.8
MW012	8/12/2004	198	<5.0	198		800	1400	0.06	6.2		5	15	2.1	11	3.8
MW012	9/9/2004	195	<5.0	195		730	1300	0.05	6.2		5	17	0.77	16	6.7
MW012A	12/9/2003	439	<5.0	439	<2	60	70	7.3	<0.4		4	90	100	21	0.50
MW012A	1/7/2004	421	<5.0	421	<2	120	150	5	23	700	4	85	110	18	0.38
MW012A	2/19/2004	231	<5.0	231	<2	60	110	<0.05	1		<1	12	7.2	13	4.6
MW012A	6/8/2004	233	<5.0	233		60	110	0.08	1.4		<1	15	2.2	14	3.2
MW012A	7/14/2004	221	<5.0	221	<2	70	100	0.07	1.5		2	8.0	0.88	14	3.2
MW012A	8/12/2004	229	<5.0	229		59	100	0.06	1.5		<1	9.5	1.9	12	2.5
MW012A	9/9/2004	216	<5.0	216		70	99	0.06	1.8		<1	4.4	0.31	25	1.3
MW012M	12/9/2003	127	<5.0	127	5	620	960	<0.05	6.5		4	11	9.7	17	3.0
MW012M	1/7/2004	149	<5.0	149	4	600	2060	<0.05	5.0	2690	4	9.0	5.0	23	2.9
MW012M	2/19/2004	142	<5.0	142	4	730	1100	0.05	5		3	7.7	1.0	17	3.7
MW012M	6/8/2004	134	<5.0	134		700	1140	<0.05	5.3		2	8.7	1.3	13	4.0
MW012M	7/14/2004	146	<5.0	146	5	600	900	0.07	2.1		8	7.0	1.3	14	2.8
MW012M	8/12/2004	414	<5.0	414		600	700	37	0.7		160	20	8.0	16	0.51
MW012M	9/9/2004	950	<5.0	950		620	200	130	<0.4		340	57	14	14	0.53
MW013	1/19/2004					790									
MW013	6/30/2004					980									
MW013A	1/19/2004					690									
MW013A	7/7/2004					700									
MW014	1/6/2004					1700									
MW014	6/30/2004					1800									
MW014A	12/29/2003					50									
MW014A	6/17/2004					50									
MW015	12/30/2003					310									
MW015	6/24/2004					2100									
MW015A	12/29/2003					970									
MW015A	6/17/2004					1130									
MW016A	12/29/2003					260									
MW016A	6/17/2004					270									
MW017A	12/30/2003					60									
MW017A	6/23/2004					80									
MW018	12/30/2003					180									
MW018	6/17/2004					240									

Table 5
Groundwater Analytical Results
Inorganics (Nonmetals), Total Organic Carbon (TOC), and Gases
ChevronTexaco Eunice #2 (North) Gas Plant
(mg/L unless noted)

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Station Name	Sample Collection Date	Alkalinity	Carbonate (CO3)	Bicarbonate	Bromide	Chloride	Sulfate	Sulfide, Total	Nitrate-Nitrite Nitrogen	Total Dissolved Solids	Total Organic Carbon	Permanent Gases			
												Carbon Dioxide	Methane (ug/L)	Nitrogen	Oxygen
MW018A	12/30/2003					210									
MW018A	6/16/2004					170									
MW019A	12/30/2003					290									
MW019A	6/17/2004					320									
MW020	1/22/2004					800									
MW020	6/23/2004					760									
MW020A	1/22/2004					230									
MW020A	6/22/2004					200									
MW021	1/21/2004					180									
MW021	6/22/2004					160									
MW021A	1/21/2004					3800									
MW021A	6/22/2004					3400									
MW022A	1/22/2004					490									
MW022A	6/23/2004					440									
MW023	1/21/2004					1240									
MW023	7/7/2004					1200									
MW023A	1/15/2004					60									
MW023A	6/16/2004					50									
MW024	1/15/2004					500									
MW024	6/22/2004					620									
MW024A	1/15/2004					310									
MW024A	6/24/2004					750									
MW025	1/7/2004					230									
MW025	6/22/2004					60									
MW026	1/6/2004					1120									
MW026	6/15/2004					650									
MW027	1/6/2004					300									
MW027	6/17/2004					300									
MW028	1/28/2004					990									
MW028	6/9/2004					1120									
MW029	1/13/2004					150									
MW029	6/10/2004					100									
MW030	1/13/2004					150									
MW030	6/15/2004					100									
MW031	1/12/2004					100									
MW031	6/15/2004					80									
MW032	1/7/2004					820									
MW032	6/15/2004					220									
MW033	1/7/2004					730									
MW033	7/28/2004					610									
MW034	1/19/2004					550									
MW034	6/24/2004					490									
MW035	1/20/2004					90									
MW035	6/22/2004					20									
MW036	1/27/2004					450									
MW036	7/27/2004					430									
MW037	1/27/2004					350									
MW037	7/28/2004					400									
MW038	1/27/2004					150									
MW038	7/28/2004					600									
MW039A	1/20/2004					150									
MW039A	6/24/2004					360									
MW040A	1/19/2004					50									
MW040A	6/16/2004					50									
MW041A	1/19/2004					640									
MW041A	7/1/2004					630									
MW042A	1/20/2004					390									
MW042A	6/15/2004					660									
MW043	1/21/2004					100									
MW043	6/22/2004					80									
MW044	1/19/2004					460									
MW044	6/24/2004					420									
MW045	1/22/2004					510									
MW045	7/27/2004					450									

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Groundwater Analytical Results
Inorganics (Nonmetals), Total Organic Carbon (TOC), and Gases
ChevronTexaco Eunice #2 (North) Gas Plant
(mg/L unless noted)

Station Name	Sample Collection Date	Alkalinity	Carbonate (CO3)	Bicarbonate	Bromide	Chloride	Sulfate	Sulfide, Total	Nitrate-Nitrite Nitrogen	Total Dissolved Solids	Total Organic Carbon	Permanent Gases			
												Carbon Dioxide	Methane (ug/L)	Nitrogen	Oxygen
MW046	1/27/2004					130									
MW046	7/27/2004					140									
MW046A	1/27/2004					530									
MW046A	7/27/2004					400									
MW047	1/20/2004					290									
MW047	6/24/2004					230									
MW048SA	12/17/2003					400									
MW048SA	6/29/2004					470									
MW049SA	12/17/2003					1860									
MW049SA	6/29/2004					3100									
MW050SA	12/17/2003					1010									
MW050SA	6/24/2004					1470									
MW051SA	12/17/2003					1400									
MW051SA	7/1/2004					1220									
MW052SA	12/18/2003					1500									
MW052SA	7/1/2004					1510									
MW053SA	12/18/2003					230									
MW053SA	7/7/2004					200									
MW054SA	12/16/2003					990									
MW054SA	6/30/2004					940									
MW055SA	12/16/2003					550									
MW055SA	3/10/2004	196	<5.0	196	2	600	430	<0.05	0.9		3	23	7.6	16	6.3
MW055SA	6/29/2004					610									
MW056SA	12/16/2003					1220									
MW056SA	7/1/2004					1310									
MW057SA	12/17/2003					210									
MW057SA	6/16/2004					240									
MW058	1/13/2004					200									
MW058	6/22/2004					150									
MW059	1/15/2004					90									
MW059	6/16/2004					80									
MW060	1/12/2004					370									
MW060	6/23/2004					360									
MW061	1/8/2004					1160									
MW061	7/8/2004					580									
MW062A	1/15/2004					70									
MW062A	6/17/2004					80									
MW063A	1/14/2004					60									
MW063A	6/15/2004					60									
MW064SA	12/10/2003					1080									
MW064SA	3/10/2004	265	<5.0	265	<2	1200	680	<0.05	11		8	38	3.3	14	4.3
MW064SA	6/7/2004	247	<5.0	247	5	2300	840	0.05	12		5	36	1.1	12	2.5
MW064SA	7/22/2004	261	<5.0	261	4	1300	700	0.06	10.2		7	40	0.042	11	1.7
MW064SA	8/24/2004	255	<5.0	255		1230	600	0.06	10.5		4	27	2.7	8.6	3.5
MW065SA	12/10/2003					960									
MW065SA	6/16/2004					930									
MW066SA	12/16/2003					1560									
MW066SA	6/30/2004					1500									
MW067SA	12/10/2003					310									
MW067SA	6/16/2004					280									
MW068	1/8/2004					300									
MW068	6/15/2004					220									
MW069	1/8/2004					1030									
MW069	6/15/2004					840									
MW070	1/13/2004					150									
MW070	6/15/2004					130									
MW070A	1/13/2004					60									
MW070A	6/16/2004					50									
MW071SA	12/15/2003					360									
MW071SA	6/9/2004	329	<5.0	329	<2	140	120	<0.05	0.4		2	22	6.5	16	4.5
MW071SA	6/23/2004					140									
MW071SA	7/8/2004					140									
MW071SA	7/27/2004					130									
MW071SA	8/9/2004					140									

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Inorganics (Nonmetals), Total Organic Carbon (TOC), and Gases
ChevronTexaco Eunice #2 (North) Gas Plant
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ARCADIS

Station Name	Sample Collection Date	Alkalinity	Carbonate (CO3)	Bicarbonate	Bromide	Chloride	Sulfate	Sulfide, Total	Nitrate-Nitrite Nitrogen	Total Dissolved Solids	Total Organic Carbon	Permanent Gases			
												Carbon Dioxide	Methane (ug/L)	Nitrogen	Oxygen
MW071SA	8/24/2004										3				
MW072SA	12/15/2003					320									
MW072SA	6/17/2004					350									
MW073SA	12/15/2003					320									
MW073SA	6/17/2004					390									
MW074SA	2/3/2004											17	3.0	11	3.4
MW074SA	2/4/2004	278	<5.0	278	3	650	830	0.1	7	2550	4	37	9.4	19	8.9
MW074SA	6/10/2004					600									
MW075SA	2/5/2004	233	<5.0	233	3	930	690	<0.05	29	2790	4	30	1.3	17	7.6
MW075SA	6/10/2004					800									
MW076SA	2/4/2004	379	<5.0	379	2	440	490	<0.05	8	1730	4	20	48	15	5.9
MW076SA	6/10/2004					400									
MW077SA	2/3/2004	331	<5.0	331	4	880	160	<0.05	1	1700	3				
MW077SA	6/14/2004					340									
MW078SA	3/24/2004	247	55.8	<5.0	<2	220	250	0.08	14	1100	5				
MW078SA	6/14/2004					220									
MW079SA	3/18/2004	266	<5.0	266	4	970	600	<0.05	2.5	2490	4	25	16	18	7.7
MW079SA	6/3/2004	425	<5.0	425		1010	630	5	3.4		50	270	12	14	<0.25
MW079SA	7/7/2004	2280	<5.0	2280	<20	1100	500	14	<2		4900	1100	2700	3.2	0.31
MW079SA	8/17/2004	599	<5.0	599	5	800	500	5	<0.4		3000	280	3800	7.4	0.29
MW080SA	3/17/2004	234	<5.0	234	3	660	480	<0.05	2.9	1850	4	18	4.8	15	7.5
MW080SA	6/3/2004	205	<5.0	205		800	580	0.06	14.2		3	29	1.9	15	4.7
MW080SA	7/7/2004	1400	< 4.0	1400	3.3	1400	490	9.0	< 0.050		310	29	4.4	13	5.1
MW080SA	8/17/2004	215	<5.0	215	4	700	500	0.06	3.9		3	20	2.9	11	5.1
MW081SA	3/25/2004	215	<5.0	215	4	1020	640	0.12	3.2	2780	4	64	0.50	20	8.1
MW081SA	6/3/2004	1660	<5.0	1660		1010	520	12	12		1100	1100	6.5	2.6	<0.25
MW081SA	7/7/2004	220	< 4.0	220	4.7	1100	820	< 2.0	2.0		2.7	1000	360	2.7	<0.25
MW081SA	8/17/2004	2430	<5.0	2430	<20	1000	100	8	<2		5000	690	3700	2.5	<0.25
MW082SA	3/25/2004	319	<5.0	319	3	1200	730	0.06	17.7	3420	8	13	25	18	7.5
MW082SA	6/8/2004	<5.0	<5.0	<5.0		1300	850	<1	<2		4000	960	0.74	0.69	< 0.25
MW082SA	7/21/2004	1250	<5.0	1250	<20	1600	900	1	<2		14000	980	24	3.8	< 0.25
MW082SA	8/23/2004	2000	<5.0	2000		1950	1000	1	<2		13000	1400	15	1.2	<0.25
MW083SA	3/25/2004	312	<5.0	312	3	1400	750	<0.05	23	3740	8	0.92	0.14	16	10
MW083SA	6/8/2004	577	<5.0	577		1120	710	<1	<2		1500	710	0.98	5.2	< 0.25
MW083SA	7/22/2004	1370	<5.0	1370	<20	830	830	1	<2		15900	1200	1.8	0.80	< 0.25
MW083SA	8/23/2004	2220	<5.0	2220		1940	900	1	<2		15000	1600	9.9	2.6	<0.25
MW084SA	3/24/2004	277	<5.0	277	<2	1800	710	<0.05	23	4380		42	3.3	15	5.7
MW084SA	6/7/2004	264	<5.0	264	4	1100	680	<0.05	7.5		6	48	1.3	12	1.7
MW084SA	7/22/2004	241	<5.0	241	5	2800	700	0.06	7.4		7	46	1.7	13	3.0
MW084SA	8/24/2004	269	<5.0	269		2500	800	<0.05	7		3	39	1.6	12	4.9
MW085SA	3/25/2004	298	<5.0	298	3	1180	800	<0.05	10	3600	8	26	49	16	8.0
MW085SA	6/7/2004	303	<5.0	303	6	1660	720	<0.05	3.1		5	52	1.00	12	1.9
MW085SA	7/22/2004	305	<5.0	305	6	1700	700	<0.05	2.9		8	65	2.2	13	1.8
MW085SA	8/23/2004	304	<5.0	304		1740	700	0.06	3		4	49	2.0	12	2.5
MW086SA	9/14/2004	246	<5.0	246	8	2290	600	0.05	10.3		3	40	3.0	15	2.2
MW087A	9/14/2004	135	<5.0	135	7	900	1500	0.06	8.5		3	8.6	4.0	14	4.0
MW087A	10/5/2004	135	<5.0	135		800	1300	0.07	8.1		5				
MW088M	9/13/2004											690	54	6.6	0.30
MW088M	9/18/2004	2720	<5.0	2720	<20	670	700	0.6	<2		6000				
MW088M	10/7/2004	4720	<5.0	4720		1180	1200	3	<2		7800				
RowlandWW	1/26/2004					780									
RowlandWW	6/22/2004					740									
RW002	12/8/2003	212	<5.0	212	7	1400	1580	0.06	8.8		6	46	8.9	18	2.7
RW002	1/7/2004	231	<5.0	231	7	1400	1890	<0.05	10.3	4870	6	29	13	16	1.8
RW002	3/4/2004	417	<5.0	417	5	1080	1770	0.06	14		5	180	5.3	14	3.6
RW002	6/10/2004										4				
RW002	6/14/2004	224	<5.0	224		1000	1700	<0.05	8.9		4	59	19	11	2.9
RW002	7/8/2004										11				
RW002	7/13/2004	323	<5.0	323	7	1190	1730	<0.05	7.9		7	120	35	16	2.4
RW002	8/11/2004										6				
RW002	8/16/2004	261	<5.0	261		1000	1600	0.06	9		4	120	22	10	1.5
RW002	9/15/2004										8				
RW002	9/16/2004	361	<5.0	361	8	1080	1500	<0.05	7.3		4	96	25	13	3.3
RW003	12/9/2003	344	<5.0	344	4	760	1200	0.06	12.5		6	110	4.6	18	3.9

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Table 5
Groundwater Analytical Results
Inorganics (Nonmetals), Total Organic Carbon (TOC), and Gases
ChevronTexaco Eunice #2 (North) Gas Plant
(mg/L unless noted)

Station Name	Sample Collection Date	Alkalinity	Carbonate (CO3)	Bicarbonate	Bromide	Chloride	Sulfate	Sulfide, Total	Nitrate-Nitrite Nitrogen	Total Dissolved Solids	Total Organic Carbon	Permanent Gases			
												Carbon Dioxide	Methane (ug/L)	Nitrogen	Oxygen
RW003	1/7/2004	224	<5.0	224	4	970	1580	<0.05	6.7	3640	6	97	4.8	16	3.9
RW003	2/19/2004	623	<5.0	623	3	500	800	<0.05	3		5	260	6.9	12	2.7
RW003	6/8/2004	656	<5.0	656		640	1100	<0.05	3.6		5	380	0.69	8.7	2.6
RW003	7/14/2004	679	<5.0	679	3	400	900	<0.05	3.6		15	500	0.57	7.1	2.3
RW003	8/16/2004	528	<5.0	528		700	1200	0.06	5.2		7	280	1.2	9.0	2.6
RW003	9/9/2004	539	<5.0	539		540	900	0.05	3.7		8	480	1.1	10	2.9
RW004A	12/9/2003	1120	<5.0	1120	30	1400	1160	1	<2		21000	1400	5.0	1.5	<0.15
RW004A	1/8/2004	<5.0	<5.0	<5.0	<20	1300	670	<1	<2	32600	23000	1200	4.4	0.78	<0.15
RW004A	3/2/2004	3520	<5.0	3520	20	1800	1620	1	<2		23000	1200	170	1.9	0.60
RW004A	6/8/2004	<5.0	<5.0	<5.0		2700	1500	<1	<2		25000	920	910	<0.40	< 0.25
RW004A	7/8/2004	<5.0	<5.0	<5.0	<20	1900	1030	1	<2		40900	1100	1800	2.6	<0.25
RW004A	8/11/2004	<5.0	<5.0	<5.0		2000	1140	1	<2		22000	1300	3300	1.6	0.28
RW004A	9/16/2004	<5.0	<5.0	<5.0	<20	1240	800	<1	<2		24000	900	240	1.4	< 0.25
RW004A	10/5/2004	<5.0	<5.0	<5.0		1740	1100	3	<2		39000				
WoodellWW	1/21/2004					650									
WoodellWW	6/21/2004					470									

Notes:
EP - Eunice Plant
GOP - Gulf Oil Corp.
WW - Water Well
MW - Monitoring Well
RW - Recovery Well
IW - Injection Well
No Suffix - Shallow/Middle Monitoring Well Completion (MW069)
A - Deep Monitoring Well Completion (MW070A)
M - Middle Monitoring Well Completion (MW008M)
SA - Shallow/Deep, Fully-Penetrating, Monitoring Well Completion (MW071SA)
<0.05 concentration reported at less than laboratory quantitation limit, the numeral (0.05) indicates the lowest quantitation limit available.

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
IW001	08/01/02	23.00	6.10	6.80	NR	130	0	0
IW001	06/10/03	20.77	6.92	6.12	0.31	258	0	0
IW001	07/01/03	27.53	5.74	15.10	0.18	-574	1.1	0
IW001	07/09/03	23.26	4.95	17.80	0.23	-146	4	0
IW001	07/15/03	26.91	4.68	15.40	0.08	-439	3	0
IW001	07/23/03	21.72	5.12	18.70	0.26	-293	>10	0
IW001	07/30/03	22.49	5.27	14.84	0.30	-424	0	0
IW001	08/08/03	23.02	5.56	17.10	0.27	-270	4.5	0
IW001	08/20/03	25.82	5.72	18.30	0.61	-393	>10	0
IW001	09/04/03	25.18	5.10	15.10	0.09	-393	5.6	0
IW001	09/18/03	25.12	5.16	21.20	0.59	-317	3.4	0
IW001	10/01/03	20.86	5.20	20.10	0.69	-108	>10	0
IW001	10/14/03	24.94	5.24	18.00	0.23	-405	3.2	0
IW001	10/29/03	24.28	4.95	19.00	0.40	NR	7.06	0
IW001	11/12/03	23.05	4.82	16.20	0.85	-331	2.6	0
IW001	12/09/03	16.27	4.32	17.20	0.53	-80	2.6	0
IW001	01/08/04	18.61	4.88	13.21	0.39	-377	4.8	0
IW001	03/04/04	15.15	4.55	13.95	0.24	-313	9.1	0
IW001	04/01/04	24.58	4.55	14.11	0.29	-308	1.8	0
IW001	05/17/04	28.60	4.71	13.06	NR	-416	NR	NR
IW001	06/10/04	24.86	3.88	21.50	NR	-363	8	0
IW002	09/19/02	20.10	7.12	4.25	3.62	176	0.6	0
IW002	06/11/03	27.30	6.93	4.10	3.46	254	0	0
IW002	07/02/03	32.08	5.65	14.02	0.21	-515	1.3	0
IW002	07/08/03	22.47	5.12	17.80	0.33	-397	6	0
IW002	07/15/03	26.06	4.73	16.50	0.10	-460	4	0
IW002	07/23/03	27.68	5.48	20.00	0.32	-275	>10	0.01
IW002	07/30/03	25.08	4.78	15.70	NR	NR	3	0
IW002	08/07/03	33.50	5.56	17.80	0.12	-40	5	0
IW002	08/21/03	27.06	5.37	15.50	0.64	-364	1.8	0
IW002	09/04/03	35.30	5.30	13.09	0.08	-288	5.2	0
IW002	09/18/03	24.76	5.04	20.30	1.22	-410	6	0
IW002	09/30/03	28.61	5.32	22.70	0.86	-12	8.8	0
IW002	10/14/03	23.74	4.98	12.73	0.40	-457	2	0
IW002	10/29/03	24.48	4.84	21.30	0.31	-28	6.8	0
IW002	11/12/03	19.11	4.47	12.43	0.59	-395	3.8	0
IW002	12/10/03	11.70	4.54	19.50	0.30	18	3.8	0
IW002	01/08/04	17.78	4.66	12.19	0.53	54	6.2	0
IW002	02/23/04	18.47	4.94	12.45	0.31	119	9.2	0
IW002	03/10/04	23.83	4.72	9.46	0.24	134	9.4	0.5
IW002	04/06/04	24.64	4.67	14.10	0.14	85	7.8	0
IW002	05/13/04	25.87	4.84	19.60	NR	-92	NR	NR
IW002	06/10/04	23.69	4.45	12.71	NR	8	8.4	0
IW003	12/17/03	18.20	6.64	0.62	12.20	NR	0	0
IW003	04/16/04	18.43	7.18	7.46	5.39	-81	0	0
IW003	04/26/04	22.96	4.52	16.40	3.52	-67	2.9	0
IW003	05/21/04	23.98	5.30	15.30	0.11	-441	6.6	0

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
IW003	06/03/04	23.03	4.70	18.60	0.13	-344	4.2	0
IW003	06/18/04	22.20	4.78	21.40	0.35	-191	9.8	0
IW003	08/03/04	30.88	4.44	17.70	0.21	-74	2.4	0
IW003	08/18/04	26.48	4.48	17.30	0.17	-173	8.2	0
IW003	08/31/04	26.49	4.36	19.40	0.27	43	4.8	0
IW004	12/18/03	16.30	7.12	0.37	14.90	NR	0	0
IW004	04/16/04	18.88	7.35	4.70	5.59	-66	0	0
IW004	04/26/04	20.90	4.45	14.83	0.39	-307	1.2	0
IW004	05/21/04	21.78	5.23	16.60	0.12	-474	9.9	0
IW004	06/18/04	22.73	4.65	15.13	0.36	-188	0	0
IW004	08/03/04	33.44	3.87	14.74	0.27	58	2.8	0
IW004	08/18/04	25.52	4.16	15.10	0.15	-68	0	0
IW004	08/31/04	24.12	3.88	15.70	0.78	72	6	0
IW005	12/18/03	18.90	7.20	0.30	15.80	NR	0	0
IW005	02/25/04	18.78	7.27	3.83	8.43	56	0	0
IW005	04/16/04	21.47	7.61	4.11	1.75	-106	0	0
IW005	04/26/04	22.60	4.46	12.00	0.28	-318	3.1	0
IW005	05/21/04	23.56	4.95	13.43	0.91	-448	6.4	0
IW005	06/18/04	27.30	4.24	11.22	0.68	-281	3.8	0
IW005	08/03/04	38.53	3.83	17.10	0.28	-197	4.2	0
IW006	12/18/03	18.90	7.42	0.27	17.60	NR	0	0
IW006	02/25/04	18.82	7.06	3.34	8.69	42	0	0
IW006	04/16/04	20.46	7.41	3.62	6.40	-62	0	0
IW006	04/26/04	24.45	4.50	16.20	0.24	-256	2.3	0
IW006	05/21/04	23.33	4.88	15.90	0.38	-468	6.4	0
IW006	06/18/04	23.47	3.82	16.50	0.66	-227	9.6	0
IW006	07/20/04	26.87	3.99	18.90	0.55	-214	3.6	0
IW006	08/03/04	27.81	3.92	18.10	0.21	23	4.8	0
IW006	08/18/04	25.83	3.96	14.46	0.36	-98	0	0
IW006	08/31/04	22.47	3.82	14.39	1.15	55	9.2	0
IW007	12/18/03	18.90	7.46	0.27	16.20	NR	0	0
IW007	02/26/04	17.72	7.50	2.56	8.61	226	0	0
IW007	04/16/04	22.39	7.38	3.97	6.37	-69	0	0
IW007	04/26/04	21.11	4.78	12.03	0.21	-368	1.2	0
IW007	05/21/04	23.16	4.98	15.30	0.21	-242	6.2	0
IW007	06/21/04	23.97	4.86	16.70	0.39	-283	7.8	0
IW007	07/20/04	25.98	4.58	24.10	0.44	193	NR	NR
IW007	08/03/04	33.21	3.98	10.99	0.20	-58	2.4	0
IW008	Dry							
IW008	02/26/04	18.18	7.49	1.08	7.72	201	0	0
IW008	04/16/04	26.27	7.73	1.73	3.85	-55	0	0
IW008	04/27/04	19.58	5.10	9.82	0.43	-266	1.2	0
IW008	05/21/04	24.94	5.24	15.00	0.13	-458	8.4	0
IW008	06/21/04	24.00	4.61	13.44	0.26	-375	5.2	0
IW008	07/20/04	32.38	4.75	18.60	0.29	116	NR	NR
IW008	08/04/04	25.34	4.13	16.50	0.35	-238	3.2	0
IW008	08/19/04	23.16	4.81	10.11	0.22	-262	<10	0

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
IW008	08/31/04	21.98	4.09	6.44	0.55	-29	4.2	0
IW009	Dry							
IW009	04/27/04	20.33	4.58	13.83	0.34	-366	2.8	0
IW009	05/25/04	23.03	5.06	18.30	0.15	-219	NR	NR
IW009	06/21/04	24.36	4.15	19.60	0.39	-51	6.6	0
IW009	07/20/04	36.73	4.37	21.60	0.15	-353	NR	NR
IW009	08/04/04	24.86	4.18	19.60	0.22	-401	3.8	0
IW010	12/18/03	18.90	7.19	0.42	15.40	NR	0	0
IW010	02/26/04	18.66	7.31	3.87	8.01	166	0	0
IW010	04/16/04	23.21	7.40	5.81	2.60	-118	0	0
IW010	04/27/04	21.24	4.88	10.09	0.28	-374	0.8	0
IW010	05/25/04	24.53	4.83	16.80	0.21	-80	NR	NR
IW010	06/21/04	26.55	4.86	19.10	0.34	-184	4	0
IW010	07/21/04	21.70	4.91	27.20	0.84	71	NR	NR
IW010	08/04/04	31.59	4.63	16.00	0.25	-55	3.6	0
IW010	08/19/04	23.68	5.26	21.60	0.14	-390	8.4	0
IW010	08/31/04	22.02	4.55	18.90	0.41	-16	5.8	0
IW011	12/18/03	17.55	6.87	4.97	4.84	-16	5.8	0
IW011	04/19/04	20.68	7.60	4.97	2.10	317	0	0
IW011	04/27/04	22.46	4.70	13.83	0.22	-361	2.1	0
IW011	05/25/04	26.13	5.32	17.40	0.15	-420	NR	NR
IW011	06/08/04	23.33	4.57	6.69	0.92	-359	4	0
IW011	06/21/04	25.55	4.51	8.08	0.30	-420	5.4	0
IW011	07/21/04	22.25	4.93	21.20	0.50	20	NR	NR
IW011	08/04/04	33.13	4.11	17.60	0.22	-140	2.2	0
IW012	Dry							
IW012	Dry							
IW012	06/08/04	23.67	4.63	4.24	0.89	-353	9	0
IW012	06/22/04	21.63	4.58	22.80	0.33	-347	4.2	0
IW012	Dry							
IW012	08/04/04	31.43	3.98	14.09	0.26	-362	4	0
IW012	08/19/04	25.74	4.49	14.00	0.18	-335	9	0
IW012	09/01/04	21.84	4.07	18.10	0.57	-187	6.6	0
IW013	02/10/04	22.55	7.04	3.98	5.69	319	0	0
IW013	04/19/04	22.04	7.28	5.10	6.66	347	0	0
IW013	04/27/04	23.40	5.02	14.12	0.28	-401	0.8	0
IW013	05/25/04	24.97	4.99	9.81	0.21	-336	NR	NR
IW013	06/08/04	22.82	4.59	10.17	0.91	-130	2.4	0
IW013	06/22/04	21.23	4.76	13.66	0.47	-378	3.8	NR
IW013	07/21/04	27.69	4.47	18.80	0.96	50	NR	NR
IW013	08/04/04	36.85	4.13	11.15	0.28	-182	3	0
IW014	02/11/04	19.31	6.94	5.84	5.45	321	0	0
IW014	04/19/04	24.94	2.21	9.36	1.77	499	0	0
IW014	04/27/04	21.77	5.32	6.89	0.09	-339	1.2	0
IW014	05/25/04	25.77	5.19	12.15	0.24	-380	NR	NR
IW014	06/22/04	20.99	4.34	15.90	0.46	-202	4	0
IW014	07/21/04	26.36	4.51	19.70	0.46	34	NR	NR

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
IW014	08/04/04	28.64	4.83	12.20	0.17	-440	2.8	0
IW014	08/19/04	28.77	4.98	9.84	0.14	14	9.5	0
IW014	09/01/04	22.51	4.61	8.78	0.71	-209	4.8	0
IW015	02/11/04	21.35	6.89	4.64	5.33	312	0	0
IW015	02/25/04	19.15	6.86	5.53	7.83	98	0.3	0
IW015	04/15/04	22.50	7.08	6.14	5.12	-98	0	0
IW015	04/26/04	20.95	5.15	13.20	1.81	-343	2	0
IW015	05/20/04	23.68	5.12	10.22	0.97	9	4.8	0
IW015	06/03/04	21.92	4.76	13.52	0.24	-368	5	0
IW015	06/17/04	26.79	4.92	19.30	0.16	-207	NR	NR
IW015	08/03/04	28.55	4.62	18.40	0.31	-400	2.2	0
IW015	08/18/04	22.89	4.55	15.10	0.17	9	NR	NR
IW016	02/10/04	18.49	6.95	3.80	6.22	331	0	0
IW016	04/15/04	22.01	7.23	5.01	3.65	-32	0	0
IW016	04/23/04	24.82	5.32	14.38	0.19	-375	1.2	0
IW016	05/20/04	27.11	5.69	13.73	0.41	-371	3.4	0
IW016	06/03/04	20.91	4.49	18.60	0.18	-329	5.2	0
IW016	06/17/04	26.59	4.90	21.80	0.32	-274	NR	NR
IW016	08/02/04	28.98	4.55	15.30	0.45	-432	4.2	0
IW016	08/31/04	25.17	4.06	19.70	0.19	18	8.4	0
MW001	05/30/01	21.70	7.11	3.20	5.00	-143	2.6	NR
MW001	02/07/02	20.30	6.00	4.20	0.50	-9	0.8	0
MW001	09/23/02	24.35	7.16	3.77	0.92	75	1	0
MW001	01/08/03	18.96	6.91	3.89	0.40	212	0.8	0
MW001	03/27/03	21.84	6.71	3.09	2.00	171	0.8	0
MW001	06/05/03	23.88	8.31	3.95	0.39	-253	0.8	0
MW001	01/26/04	20.54	7.44	2.68	1.26	27	8.2	0
MW001	07/28/04	22.58	6.86	3.43	0.33	59	2	0
MW002	05/22/01	21.00	5.05	0.98	6.40	120	0	NR
MW002	01/24/02	17.90	5.98	2.30	2.50	162	0	0
MW002	09/16/02	21.83	7.10	2.56	5.09	221	0	0
MW002	12/18/02	19.94	6.44	2.83	3.19	187	0	0
MW002	03/13/03	21.25	6.76	2.38	4.60	87	0	0
MW002	05/28/03	23.56	7.31	2.12	6.21	-93	0	0
MW002	01/20/04	20.46	7.05	1.88	0.33	311	0	0
MW002	06/23/04	22.15	7.12	2.66	3.99	189	0	0
MW002A	12/09/02	21.90	7.40	1.94	NR	NR	0	0
MW002A	03/12/03	21.52	6.02	2.56	0.69	82	0	0
MW002A	05/28/03	23.19	6.99	2.67	0.49	-167	NR	NR
MW002A	01/20/04	20.53	7.19	1.93	2.73	292	NR	NR
MW002A	06/23/04	21.25	7.31	2.51	1.95	169	0	0
MW003	05/24/01	20.70	5.30	0.26	2.60	221	0.4	NR
MW003	01/30/02	18.00	5.79	5.20	5.10	183	0	0
MW003	09/18/02	23.10	6.72	5.38	1.72	116	0	0
MW003	01/06/03	16.57	5.46	4.30	1.13	241	NR	NR
MW003	03/19/03	17.89	6.96	5.30	0.99	5	NR	NR

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW003	06/04/03	22.82	6.82	4.44	1.97	243	NR	NR
MW003	01/20/04	19.06	7.00	3.41	2.47	187	NR	NR
MW003	06/29/04	20.67	6.80	4.97	2.68	332	0	0
MW004	05/24/01	25.67	6.85	0.50	NR	74	0	NR
MW004	01/28/02	21.90	7.00	6.00	NR	177	0	0
MW004	09/18/02	25.82	7.02	4.19	NR	194	0	0
MW004	12/30/02	16.64	6.64	4.26	10.50	190	0	0
MW004	03/18/03	19.44	6.10	3.57	4.70	-13	0	0
MW004	06/04/03	22.36	8.01	4.07	15.80	-154	0	0
MW004	01/19/04	19.94	6.59	3.87	1.37	296	0	0
MW004	06/24/04	21.30	6.67	4.87	1.14	60	0	0
MW004A	05/23/01	21.39	6.42	0.23	6.10	107	0	NR
MW004A	01/28/02	20.40	6.30	2.70	6.30	215	0	0
MW004A	09/17/02	22.49	7.39	2.47	3.93	179	0	0
MW004A	12/30/02	18.06	7.25	2.52	5.36	181	NR	NR
MW004A	03/13/03	21.21	6.15	2.09	4.72	262	NR	NR
MW004A	06/04/03	20.48	8.64	2.60	3.77	-126	NR	NR
MW004A	01/19/04	20.08	7.39	1.74	5.27	286	NR	NR
MW004A	06/24/04	21.13	7.39	2.31	2.89	11	0	0
MW005	02/11/02	15.8	6.14	2.90	7.60	202	7	0
MW006	02/11/02	14.8	6.35	3.00	8.00	212	1.6	0
MW007	05/24/01	22.40	6.82	0.42	4.30	78	0	NR
MW007	01/30/02	15.50	5.67	3.40	6.50	201	0	0
MW007	09/12/02	26.07	6.95	3.86	3.85	190	0	0
MW007	12/19/02	15.65	6.15	3.22	5.23	166	NR	NR
MW007	03/13/03	23.14	5.56	2.68	2.47	114	NR	NR
MW007	06/03/03	21.26	8.13	3.16	3.57	-92	NR	NR
MW007	01/21/04	18.40	7.12	2.58	5.60	240	NR	NR
MW007	06/23/04	20.42	6.98	3.52	6.72	189	0	0
MW007A	05/23/01	21.01	6.66	0.16	4.70	86	NR	NR
MW007A	01/29/02	18.4	5.81	2.30	7.00	171	0	0
MW007A	09/17/02	22.72	7.26	2.66	2.36	171	0	0
MW007A	12/30/02	18.08	6.94	2.84	3.16	187	NR	NR
MW007A	03/17/03	18.93	5.74	2.64	1.61	145	NR	NR
MW007A	06/03/03	20.19	8.32	3.18	2.24	-151	NR	NR
MW007A	01/21/04	19.00	7.24	1.53	6.44	221	NR	NR
MW007A	06/29/04	20.53	7.23	2.06	3.96	281	0	0
MW008	05/31/01	19.29	7.73	2.73	4.40	58	0	NR
MW008	05/31/01	19.84	7.49	1.31	1.50	65	NR	NR
MW008	08/29/01	22.30	7.04	3.00	6.50	111	0	NR
MW008	09/27/01	23.50	7.37	1.53	NR	NR	NR	NR
MW008	02/04/02	17.10	6.00	5.80	7.30	203	0	0
MW008	09/18/02	24.15	6.54	6.51	3.97	175	0	0
MW008	01/06/03	18.39	5.67	5.82	3.29	247	NR	NR
MW008	03/26/03	21.00	6.88	5.65	3.53	205	NR	NR
MW008	06/05/03	19.18	8.46	6.78	2.66	-262	NR	NR
MW008	06/09/03	21.76	6.92	5.56	3.76	295	0.2	0

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW008	06/19/03	20.77	6.84	5.24	2.56	241	0	NR
MW008	06/30/03	22.29	7.17	5.41	2.03	185	0	0
MW008	07/09/03	21.73	6.97	6.13	3.61	8	0	0
MW008	07/15/03	22.78	7.08	4.09	1.21	-89	0	0
MW008	07/23/03	26.81	6.99	5.10	2.32	352	0.2	0
MW008	07/28/03	23.33	6.91	6.15	1.73	312	0	0
MW008	08/08/03	23.35	7.45	5.72	0.54	229	0	0
MW008	08/21/03	27.18	6.96	6.20	2.14	322	0	0
MW008	09/04/03	24.36	7.09	5.40	1.73	-47	0	0
MW008	09/17/03	20.41	7.11	6.03	2.16	312	0	0
MW008	09/29/03	21.80	7.10	5.48	1.77	360	0	0
MW008	10/14/03	19.98	6.66	5.62	1.83	222	0	0
MW008	10/27/03	21.60	7.05	6.72	2.32	215	0	0
MW008	11/10/03	21.20	7.12	6.91	2.82	316	0	0
MW008	12/04/03	17.52	7.11	6.82	1.36	108	0	0
MW008	01/05/04	17.59	7.34	5.16	1.04	394	0	0
MW008	03/01/04	17.54	7.41	4.46	3.47	251	0.1	0
MW008	03/31/04	23.16	7.19	5.40	2.08	259	0.2	0
MW008	05/04/04	21.19	7.33	7.53	NR	396	0	0
MW008	06/07/04	22.63	6.90	6.57	NR	51	NR	NR
MW008	07/07/04	22.15	7.33	6.71	NR	-220	0	0
MW008A	05/29/01	24.90	7.29	6.30	1.40	192	0	NR
MW008A	08/29/01	21.10	6.67	6.40	2.50	141	0	NR
MW008A	02/04/02	16.50	5.50	6.70	0.90	225	0	0
MW008A	09/18/02	24.59	7.31	6.32	0.96	138	0	0
MW008A	01/06/03	17.26	7.01	6.23	1.34	207	NR	NR
MW008A	03/26/03	22.02	6.96	5.34	0.54	-81	NR	NR
MW008A	06/05/03	20.66	8.46	6.39	1.08	-291	NR	NR
MW008A	06/09/03	25.36	6.94	5.31	0.76	241	0.4	0
MW008A	06/19/03	22.67	6.81	4.90	0.48	224	0	NR
MW008A	06/30/03	23.36	7.13	5.82	0.87	168	0	0
MW008A	07/09/03	26.13	6.98	5.79	2.55	-6	0	0
MW008A	07/15/03	29.46	7.03	4.64	1.63	-98	0	0
MW008A	07/23/03	33.69	7.58	4.88	1.06	281	0	0
MW008A	07/29/03	22.87	6.97	6.70	0.38	-94	0	0
MW008A	08/08/03	26.10	7.22	6.26	0.23	204	0	0
MW008A	08/21/03	32.92	6.92	5.63	1.14	233	0	0
MW008A	09/04/03	23.24	7.07	5.84	0.37	-94	0	0
MW008A	09/17/03	23.24	7.13	5.76	2.21	288	0	0
MW008A	09/29/03	23.10	7.17	5.41	1.49	267	0	0
MW008A	10/14/03	19.49	7.09	5.25	0.25	240	0	0
MW008A	10/27/03	21.91	7.10	6.02	0.71	257	0	0
MW008A	11/11/03	17.35	7.12	5.45	0.28	257	0	0
MW008A	12/04/03	17.14	7.79	5.25	0.55	64	0	0
MW008A	01/05/04	15.29	7.25	4.78	0.45	-130	0.1	0
MW008A	03/01/04	15.92	7.48	4.65	2.85	265	0.2	0
MW008A	03/31/04	22.15	6.97	5.78	0.47	230	0.2	0

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW008A	05/04/04	22.64	6.68	6.97	NR	-150	0	0
MW008A	06/07/04	27.44	6.59	6.04	NR	212	NR	NR
MW008A	07/07/04	22.34	6.66	7.00	NR	-224	0	0
MW008M	10/01/01	21.10	7.40	1.44	NR	NR	NR	NR
MW008M	02/04/02	17.10	5.90	7.00	6.00	189	0	0
MW008M	06/09/03	23.43	6.99	5.89	1.42	263	0	0
MW008M	06/30/03	24.16	7.18	6.60	1.91	188	0	0
MW008M	07/09/03	24.14	6.90	6.45	1.49	6	0	0
MW008M	07/15/03	24.96	6.92	5.08	0.46	-116	0	0
MW008M	07/23/03	27.01	7.48	5.17	1.22	261	0	0
MW008M	07/29/03	21.71	6.97	7.50	0.57	-90	0	0
MW008M	08/08/03	22.26	7.30	6.19	1.49	229	0	0
MW008M	08/21/03	28.82	6.89	6.50	1.72	219	0	0
MW008M	09/04/03	25.88	6.91	7.11	1.45	21	0	0
MW008M	09/17/03	22.66	7.03	6.99	1.14	296	0	0
MW008M	09/29/03	24.23	7.15	6.39	1.19	296	0	0
MW008M	10/14/03	20.54	7.08	6.46	0.89	239	0	0
MW008M	10/27/03	22.19	7.07	7.04	1.48	221	0	0
MW008M	11/11/03	18.27	7.12	6.35	1.07	255	0	0
MW008M	12/04/03	15.70	7.08	7.10	1.39	98	0	0
MW008M	01/06/04	12.76	7.27	6.59	1.73	425	0.2	0
MW008M	03/01/04	17.26	7.19	7.02	NR	269	0.2	0
MW008M	04/01/04	20.76	7.28	6.69	NR	344	0	0
MW008M	05/04/04	19.80	7.43	8.00	NR	403	0	0
MW008M	06/07/04	26.85	6.59	6.83	NR	237	NR	NR
MW008M	07/07/04	25.64	6.37	8.35	NR	-253	1.8	1.35
MW009	05/31/01	19.10	7.25	3.90	6.90	241	0	NR
MW009	01/29/02	17.60	6.69	3.80	8.10	130	0	0
MW009	09/17/02	20.91	7.17	4.05	3.81	205	0	0
MW009	12/19/02	18.06	6.88	3.96	3.56	166	0	0
MW009	03/13/03	22.07	5.81	2.94	3.11	266	0	0
MW009	06/04/03	22.23	8.29	3.81	3.09	-108	NR	NR
MW009	01/20/04	19.00	7.25	2.73	3.20	214	0	0
MW009	06/24/04	19.90	6.95	3.65	5.57	177	0	0
MW009A	05/24/01	20.50	7.02	4.80	6.40	236	0	NR
MW009A	09/27/01	23.10	7.50	1.39	NR	NR	NR	NR
MW009A	01/28/02	19.00	6.20	4.80	6.90	172	0	0
MW009A	09/18/02	21.78	7.31	4.56	3.33	151	0	0
MW009A	01/06/03	16.56	5.23	4.63	0.45	240	NR	NR
MW009A	03/20/03	18.87	7.25	4.32	2.25	21	NR	NR
MW009A	06/04/03	23.30	7.74	5.02	2.29	-305	NR	NR
MW009A	01/20/04	19.40	7.09	3.45	2.54	210	NR	NR
MW009A	07/08/04	22.50	7.04	1.28	NR	NR	NR	NR
MW010	05/24/01	19.80	6.05	7.40	7.30	201	0	NR
MW010	01/29/02	20.00	5.98	6.90	8.00	160	0	0
MW010	09/17/02	23.79	7.35	7.00	5.94	176	0	0
MW010	12/30/02	19.46	6.76	7.62	4.79	184	NR	NR

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW010	03/17/03	20.26	6.16	6.89	4.99	257	NR	NR
MW010	06/02/03	21.84	6.62	6.69	5.16	255	NR	NR
MW010	01/21/04	18.88	6.90	5.47	5.51	313	NR	NR
MW010	06/23/04	20.33	6.87	7.88	2.13	244	0	0
MW011	05/31/01	20.91	7.89	2.71	1.60	46	0	NS
MW011	05/31/01	22.31	7.89	2.51	2.50	47	NS	NS
MW011	08/30/01	22.70	6.90	6.70	3.70	125	0	NS
MW011	01/31/02	18.00	5.78	7.00	5.30	194	0	0
MW011	09/19/02	20.65	7.22	6.48	0.99	197	0	0
MW011	01/07/03	17.21	5.71	6.14	1.11	239	NR	NR
MW011	03/26/03	20.10	5.82	5.41	0.50	175	NR	NR
MW011	06/02/03	22.84	8.23	6.66	0.88	-373	NR	NR
MW011	06/10/03	19.52	6.87	4.91	0.40	289	0.3	0
MW011	06/19/03	21.14	6.80	5.18	0.12	208	0	NR
MW011	07/01/03	22.50	7.02	6.23	2.13	173	0	0
MW011	07/08/03	21.25	6.94	6.07	0.27	32	0	0
MW011	07/14/03	31.92	6.93	5.50	1.58	-327	0.4	0
MW011	07/23/03	24.12	7.57	5.12	0.64	193	NR	NR
MW011	07/29/03	22.47	6.90	7.34	0.91	-96	0	0
MW011	08/07/03	23.05	7.11	6.74	0.55	276	0	0
MW011	08/19/03	23.08	6.94	6.55	0.32	-371	0.6	0
MW011	09/03/03	26.37	6.91	6.34	0.59	-156	0	0
MW011	09/17/03	23.18	6.98	7.04	0.57	204	0	0
MW011	09/29/03	23.63	6.95	7.39	0.51	259	0	0
MW011	10/13/03	22.74	6.89	7.05	0.83	199	0	0
MW011	10/28/03	19.48	7.01	6.25	0.60	226	0	0
MW011	11/11/03	19.66	7.05	5.98	0.21	201	0	0
MW011	12/08/03	20.94	7.37	5.59	0.42	143	0	0
MW011	01/06/04	16.16	7.06	6.22	0.31	408	0	0
MW011	03/02/04	15.75	6.79	5.31	1.50	196	0	0
MW011	04/01/04	21.35	6.98	7.79	0.37	15	0	0
MW011	05/13/04	24.33	7.18	7.48	NR	65	0	0
MW011	06/10/04	22.93	6.83	7.15	NR	154	NR	NR
MW011	07/08/04	25.69	7.00	7.25	NR	-85	0.2	0
MW011	07/12/04	21.44	6.96	7.33	NR	145	0	0
MW011A	05/22/01	21.02	5.50	0.13	5.30	90	0	NS
MW011A	01/28/02	18.30	5.76	1.50	9.40	214	0	0
MW011A	09/12/02	23.36	6.99	2.30	4.89	187	0	0
MW011A	12/26/02	17.81	6.88	2.13	3.15	165	NR	NR
MW011A	03/18/03	18.45	5.89	1.80	3.11	230	NR	NR
MW011A	06/02/03	23.51	7.98	2.45	2.50	-256	NR	NR
MW011A	06/10/03	20.80	6.58	1.93	1.45	245	0.2	0
MW011A	06/19/03	21.72	6.72	1.77	0.31	183	0	NR
MW011A	07/01/03	22.85	6.94	2.23	1.43	157	0	0
MW011A	07/08/03	21.28	6.93	2.17	0.97	35	0	0
MW011A	07/14/03	32.11	6.95	2.04	0.95	-227	0	0
MW011A	07/23/03	26.44	7.65	1.79	0.72	79	0	0

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW011A	07/29/03	21.81	6.92	2.54	0.26	-98	0	0
MW011A	08/07/03	28.09	7.15	2.32	0.36	264	0	0
MW011A	08/19/03	24.24	6.95	2.31	0.28	-371	0	0.6
MW011A	09/03/03	26.84	7.01	2.25	0.22	-110	0.8	0
MW011A	09/17/03	23.46	6.97	2.48	0.28	-88	0.2	0.45
MW011A	09/29/03	27.00	7.05	2.22	0.54	57	0.4	0.35
MW011A	10/13/03	23.05	7.07	2.48	0.35	-7	0	0.8
MW011A	10/28/03	18.22	7.26	2.16	1.02	103	0.2	NR
MW011A	11/11/03	19.50	7.24	2.19	0.17	161	0	0.45
MW011A	12/08/03	19.50	7.50	2.21	0.28	144	0	0.45
MW011A	01/06/04	10.36	7.17	2.49	0.80	355	0	0
MW011A	03/04/04	15.69	6.65	3.57	2.12	354	0	0
MW011A	04/01/04	21.69	6.85	7.94	0.54	53	0	0
MW011A	05/13/04	22.43	7.30	8.11	NR	-16	0	0
MW011A	06/10/04	25.87	6.82	7.82	NR	211	0	0
MW011A	07/08/04	24.59	7.12	7.77	NR	-138	0.4	0
MW011A	07/12/04	21.86	6.83	6.19	NR	139	0	0
MW011M	10/01/01	296.00	7.42	1.38	NR	NR	NR	NR
MW011M	02/04/02	17.10	6.70	6.50	6.80	164	0	0
MW011M	06/10/03	22.45	7.07	5.49	0.27	241	0.3	0
MW011M	06/19/03	22.21	6.94	5.55	1.13	193	0	NR
MW011M	07/01/03	30.62	7.09	6.63	1.61	174	0	0
MW011M	07/08/03	24.99	7.11	6.56	1.28	39	0	0
MW011M	07/14/03	29.09	7.03	6.17	1.42	-336	0	0
MW011M	07/23/03	24.25	7.69	5.28	0.81	205	0	0
MW011M	07/30/03	22.08	7.02	7.75	0.59	-5	0	0
MW011M	08/07/03	26.84	7.24	7.25	1.24	299	0	0
MW011M	08/19/03	23.56	7.04	7.05	0.22	-371	0	0
MW011M	09/03/03	23.72	6.96	7.13	0.85	-93	0	0
MW011M	09/17/03	26.89	7.01	6.90	0.50	311	0	0
MW011M	09/29/03	25.12	7.03	6.99	0.55	249	0	0
MW011M	10/14/03	16.75	7.09	7.60	0.91	255	0	0
MW011M	10/28/03	20.09	7.21	6.68	0.36	206	0	0
MW011M	11/11/03	20.49	6.98	7.15	0.69	221	0	0
MW011M	12/04/03	22.32	7.12	7.53	0.47	222	0	0
MW011M	01/06/04	14.07	7.22	6.15	0.75	264	0	0
MW011M	03/02/04	15.17	6.70	6.37	0.29	213	0.3	0
MW011M	04/01/04	23.19	6.77	8.94	0.74	331	2.2	0
MW011M	05/13/04	24.76	7.34	8.57	NR	-40	NR	NR
MW011M	06/10/04	24.94	6.64	8.43	NR	-98	NR	NR
MW011M	07/08/04	23.50	6.85	9.32	NR	-289	0.5	0.7
MW011M	07/12/04	20.72	6.51	9.58	NR	-137	1.6	2.05
MW012	05/30/01	22.20	7.40	5.40	5.60	221	0	NR
MW012	05/30/01	24.80	7.34	2.60	7.70	218	NR	NR
MW012	08/27/01	23.50	7.14	5.40	6.50	112	0	NR
MW012	01/31/02	16.10	6.19	5.10	6.80	210	0	0
MW012	09/18/02	24.18	7.56	5.00	5.93	163	0	0

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW012	01/06/03	18.68	5.37	3.76	1.49	254	NR	NR
MW012	03/26/03	19.03	7.30	4.23	5.40	-24	NR	NR
MW012	06/03/03	22.89	5.84	3.29	3.86	266	NR	NR
MW012	06/10/03	25.19	6.28	3.36	2.54	263	0	0
MW012	07/02/03	22.20	6.92	3.76	1.67	-347	0.3	0
MW012	07/07/03	22.73	7.11	4.34	4.62	-167	0	0
MW012	07/14/03	23.78	7.00	3.65	2.62	293	0	0
MW012	07/23/03	31.61	7.77	3.39	2.64	223	0.1	0
MW012	07/30/03	24.35	7.54	4.79	4.10	26	0	0
MW012	08/07/03	24.88	7.23	5.31	4.59	399	0	0
MW012	08/20/03	26.93	7.04	4.62	3.38	-259	0	0
MW012	09/03/03	23.39	7.24	4.99	3.65	148	0.1	0
MW012	09/18/03	21.04	7.16	5.45	3.18	301	0	0
MW012	09/30/03	21.14	7.29	4.73	3.08	274	0	0
MW012	10/13/03	23.78	7.27	4.33	4.31	306	0	0
MW012	10/28/03	21.77	7.28	4.86	2.15	158	0.2	0
MW012	11/11/03	23.67	6.98	5.90	2.89	280	0.3	0
MW012	12/08/03	20.93	7.11	5.43	2.51	196	0.3	0
MW012	01/07/04	15.29	7.31	3.51	4.01	301	0	0
MW012	02/18/04	21.82	7.15	3.80	5.36	236	0	0
MW012	03/10/04	17.22	7.35	4.58	5.49	329	0	0
MW012	04/06/04	16.80	7.25	5.89	4.26	387	0.3	0
MW012	05/06/04	19.09	7.26	5.67	NR	172	0	0
MW012	06/08/04	22.90	6.96	4.89	NR	62	NR	NR
MW012	07/13/04	28.84	6.88	5.81	NR	189	0	0
MW012A	05/22/01	22.24	4.92	0.09	5.00	118	0	NR
MW012A	01/28/02	20.20	6.24	0.80	5.40	200	0	0
MW012A	09/05/02	23.90	6.10	0.91	3.74	107	0	0
MW012A	12/19/02	18.12	6.26	0.93	0.35	195	NR	NR
MW012A	03/03/03	18.46	5.65	1.02	0.64	302	NR	NR
MW012A	05/21/03	18.81	6.13	1.07	2.31	298	NR	NR
MW012A	06/10/03	26.74	6.04	1.10	2.18	255	0.1	0
MW012A	06/19/03	23.36	6.02	0.99	0.38	113	0	NS
MW012A	07/02/03	26.08	6.45	1.33	2.61	-325	0	0
MW012A	07/07/03	26.15	6.41	1.20	1.84	-57	0	0
MW012A	07/14/03	25.98	6.42	0.95	0.49	136	0	0.5
MW012A	07/23/03	23.23	6.50	1.34	0.35	-206	NR	1.3
MW012A	07/30/03	23.42	6.53	1.32	0.27	-27	0.02	1
MW012A	08/07/03	22.81	6.66	1.20	0.47	126	0.5	0.35
MW012A	08/20/03	25.49	6.53	1.22	0.54	-306	0.2	0.48
MW012A	09/03/03	24.85	6.78	1.15	0.50	-263	0.3	>2.25
MW012A	09/18/03	24.24	6.56	1.32	0.52	-139	0.8	0.95
MW012A	09/30/03	23.23	6.85	1.18	0.45	-38	0.4	0.8
MW012A	10/13/03	23.72	6.54	1.24	0.45	-116	0	2.15
MW012A	10/28/03	23.95	6.73	1.21	1.62	-66	0.3	2.15
MW012A	11/11/03	22.20	6.75	1.36	0.22	-85	0.4	0.3
MW012A	12/09/03	8.70	6.85	1.00	1.22	-58	0.4	0.3

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW012A	01/07/04	16.68	6.86	0.94	0.30	2	0.2	0.24
MW012A	02/19/04	18.98	7.47	0.71	4.64	183	0	0
MW012A	03/10/04	19.46	7.47	0.73	4.02	329	0	0
MW012A	04/06/04	21.46	7.57	0.99	4.13	360	0.2	0
MW012A	05/06/04	19.78	7.63	0.95	NR	184	0	0
MW012A	06/08/04	22.08	7.24	0.84	NR	21	NR	NR
MW012M	02/04/02	16.8	6.59	3.20	1.80	154	0	0
MW012M	07/07/03	20.62	7.30	3.38	2.29	-98	0	0
MW012M	07/14/03	22.19	7.10	2.88	0.53	361	0	0
MW012M	07/23/03	22.97	7.17	3.87	0.52	-196	0	0
MW012M	07/30/03	22.81	6.90	3.90	0.99	346	0	0
MW012M	08/07/03	22.05	6.95	3.93	0.90	402	0	0
MW012M	08/20/03	24.91	7.08	3.81	0.85	-304	0.3	0
MW012M	09/03/03	23.95	7.22	3.79	1.88	142	0	0
MW012M	09/18/03	22.31	7.10	3.85	0.62	90	0	0
MW012M	09/30/03	21.84	7.21	3.58	1.24	206	0	0
MW012M	10/13/03	26.68	7.34	3.76	1.35	312	0	0
MW012M	10/28/03	21.09	7.07	3.99	2.03	195	0	0
MW012M	11/12/03	19.29	7.28	4.50	1.21	197	0	0
MW012M	12/09/03	11.50	6.97	4.59	1.83	198	0	0
MW012M	01/07/04	15.88	7.30	3.20	2.38	214	0	0
MW012M	02/19/04	17.80	7.41	3.31	5.04	151	0	0
MW012M	03/10/04	17.12	7.43	3.52	3.01	326	0	0
MW012M	04/06/04	21.06	7.39	4.54	3.26	331	0.2	0
MW012M	05/06/04	20.84	7.47	4.37	NR	197	0	0
MW012M	06/08/04	26.87	7.12	3.75	NR	122	NR	NR
MW013	05/23/01	21.50	6.92	7.00	6.30	140	0	NR
MW013	08/27/01	21.20	6.73	6.70	5.20	147	0	NR
MW013	01/29/02	20.60	5.62	6.10	5.80	182	0	0
MW013	09/17/02	23.68	7.05	5.56	4.62	165	0	0
MW013	12/19/02	19.33	6.01	5.65	1.99	225	NR	NR
MW013	03/18/03	19.69	5.25	4.65	0.75	263	NR	NR
MW013	06/03/03	24.85	7.91	5.46	2.65	-106	NR	NR
MW013	01/19/04	19.92	7.07	4.26	2.66	250	NR	NR
MW013	06/30/04	20.97	6.87	4.95	4.10	129	0	0
MW013A	05/22/01	21.10	7.20	1.00	NR	280	0	NR
MW013A	01/28/02	17.50	6.93	1.30	NR	128	0	0
MW013A	09/05/02	2.13	7.80	1.15	NR	107	0	0
MW013A	12/19/02	17.84	6.91	1.03	13.50	150	NR	NR
MW013A	03/12/03	20.42	5.47	1.00	21.30	242	NR	NR
MW013A	05/28/03	20.76	6.94	0.92	17.00	185	NR	NR
MW013A	01/19/04	20.18	7.52	0.88	2.85	168	NR	NR
MW013A	07/07/04	22.00	7.67	0.71	NR	NR	NR	NR
MW014	05/24/01	20.90	6.03	8.00	0.50	205	0	NR
MW014	08/27/01	22.00	6.76	7.70	1.30	115	0	NR
MW014	01/30/02	17.40	5.86	8.10	4.60	180	0	0
MW014	09/17/02	24.91	7.10	6.98	1.14	162	0	0

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW014	01/02/03	19.08	5.93	6.86	0.49	178	NR	NR
MW014	03/18/03	19.52	6.16	6.03	0.63	232	NR	NR
MW014	06/03/03	23.66	6.20	5.83	0.45	280	NR	NR
MW014	01/06/04	19.37	7.29	5.51	0.46	0	NR	NR
MW014	06/30/04	21.45	6.69	8.22	0.78	127	0	0
MW014A	05/23/01	22.50	7.55	0.84	7.00	184	0	
MW014A	01/24/02	18.00	6.85	0.80	3.90	190	0	0
MW014A	09/05/02	22.46	8.32	0.90	2.95	111	0	0
MW014A	12/19/02	18.99	6.04	0.87	1.91	215	NR	NR
MW014A	03/10/03	20.72	6.09	0.96	2.98	78	NR	NR
MW014A	05/21/03	19.24	6.07	0.82	3.54	292	NR	NR
MW014A	12/29/03	20.09	7.43	1.09	2.38	22	NR	NR
MW014A	06/17/04	21.39	7.35	1.07	3.52	124	0	0
MW015	05/17/01	21.20	5.61	4.32	5.90	114	0	NR
MW015	01/22/02	17.90	5.52	11.00	5.30	232	0	0
MW015	09/04/02	21.08	6.12	10.10	3.17	233	0	0
MW015	12/11/02	18.76	5.96	9.82	4.18	136	NR	NR
MW015	03/11/03	20.61	5.35	10.14	0.52	261	NR	NR
MW015	05/29/03	22.60	6.05	7.96	3.30	170	NR	NR
MW015	12/30/03	19.03	7.20	7.56	4.68	209	NR	NR
MW015	06/24/04	19.85	6.77	1.46	3.75	84	0	0
MW015A	05/17/01	25.30	7.52	1.51	3.90	4	0	NR
MW015A	01/22/02	19.20	6.68	1.90	4.70	5	0	0
MW015A	09/04/02	22.48	6.53	2.04	2.17	2	0	0
MW015A	12/11/02	20.54	6.04	1.87	1.37	1	NR	NR
MW015A	03/03/03	21.00	5.60	1.99	0.19	0	NR	NR
MW015A	05/21/03	17.97	5.75	1.79	0.35	0	NR	NR
MW015A	12/29/03	19.36	6.36	3.47	2.67	147	NR	NR
MW015A	06/17/04	21.15	6.85	3.92	6.15	195	0	0
MW016A	05/17/01	22.60	6.64	1.60	7.04	166	0	NR
MW016A	01/22/02	19.80	5.51	1.60	8.80	225	0	0
MW016A	09/04/02	21.89	7.08	1.76	5.19	172	0	0
MW016A	12/12/02	14.29	7.04	1.62	5.06	125	NR	NR
MW016A	03/04/03	18.69	5.92	1.60	3.85	249	NR	NR
MW016A	05/21/03	19.50	6.87	1.56	4.86	272	NR	NR
MW016A	12/29/03	19.87	7.66	1.90	3.89	161	NR	NR
MW016A	06/17/04	20.63	7.35	2.06	4.51	87	0	0
MW017A	05/17/01	23.44	4.08	0.09	5.60	57	0	NR
MW017A	01/23/02	19.00	6.29	0.82	7.20	137	0	0
MW017A	09/04/02	21.73	5.95	1.06	4.07	190	0	0
MW017A	12/12/02	18.44	6.07	1.22	3.01	171	NR	NR
MW017A	03/04/03	19.63	6.61	1.27	4.11	216	NR	NR
MW017A	05/21/03	20.92	6.94	1.09	3.73	-1	NR	NR
MW017A	12/30/03	19.36	7.76	0.70	4.64	179	NR	NR
MW017A	06/23/04	20.76	7.39	0.98	6.30	159	0	0
MW018	05/17/01	22.70	7.48	2.16	8.08	161	0	NR
MW018	01/23/02	18.90	5.97	2.20	7.70	173	0	0

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW018	09/04/02	20.95	7.05	1.80	7.30	179	0	0
MW018	12/12/02	18.01	7.13	1.69	6.63	188	NR	NR
MW018	03/04/03	20.15	6.78	1.47	6.11	228	NR	NR
MW018	05/27/03	19.22	7.95	1.61	6.15	-182	NR	NR
MW018	12/30/03	18.30	7.58	1.42	5.50	188	NR	NR
MW018	06/17/04	20.53	7.12	2.03	4.94	142	0	0
MW018A	05/17/01	24.13	5.08	0.20	7.60	102	0	NR
MW018A	01/23/02	19.00	5.78	2.00	9.10	163	0	0
MW018A	09/04/02	21.45	6.01	2.25	3.80	260	0	0
MW018A	12/16/02	18.17	5.52	2.07	1.12	272	NR	NR
MW018A	03/04/03	19.10	6.39	2.53	3.85	214	NR	NR
MW018A	05/27/03	19.66	7.20	1.98	1.69	-188	NR	NR
MW018A	12/30/03	19.48	7.36	1.43	4.40	184	NR	NR
MW018A	06/16/04	21.54	7.15	2.02	6.68	182	0	0
MW019A	05/17/01	23.10	7.53	4.38	7.30	136	0	NR
MW019A	01/23/02	18.70	5.43	2.30	7.10	177	0	0
MW019A	09/05/02	20.70	6.46	2.11	5.81	212	0	0
MW019A	12/02/02	20.97	6.94	1.98	5.44	230	0	0
MW019A	03/11/03	20.80	5.70	2.00	4.11	258	NR	NR
MW019A	05/27/03	20.15	8.01	1.82	5.72	-170	NR	NR
MW019A	12/30/03	19.43	7.67	1.62	5.08	196	NR	NR
MW019A	06/17/04	21.20	7.16	2.41	6.51	193	0	0
MW020	06/07/01	22.30	6.98	3.30	6.70	141	0	NR
MW020	02/06/02	18.00	6.11	2.90	5.10	202	0	0
MW020	09/09/02	23.85	7.22	2.82	3.96	219	0	0
MW020	12/09/02	12.75	5.90	2.78	4.26	127	NR	NR
MW020	03/06/03	20.34	5.88	2.84	3.91	237	NR	NR
MW020	06/05/03	21.13	8.03	3.01	3.75	-220	NR	NR
MW020	01/22/04	19.52	6.97	2.71	5.10	309	NR	NR
MW020	06/23/04	21.23	6.95	3.41	6.44	184	0	0
MW020A	06/07/01	22.60	7.28	2.30	7.40	131	0	0
MW020A	02/06/02	15.60	6.33	2.20	6.80	199	0	0
MW020A	09/09/02	22.88	7.41	2.05	5.83	222	0	NR
MW020A	12/09/02	14.81	7.31	2.11	6.38	260	NR	NR
MW020A	03/06/03	20.77	5.73	2.09	4.03	192	NR	NR
MW020A	06/05/03	22.09	8.12	2.22	4.05	-209	NR	NR
MW020A	01/22/04	19.52	7.28	1.97	5.23	308	NR	NR
MW020A	06/22/04	21.40	6.86	2.04	NR	NR	0	0
MW021	05/18/01	21.17	4.54	0.40	4.80	102	0	NR
MW021	01/23/02	19.40	5.16	3.80	1.00	180	0	0
MW021	09/05/02	23.50	5.99	3.00	0.17	202	0	0
MW021	12/11/02	18.61	6.87	3.11	0.93	79	0	0
MW021	03/05/03	16.49	7.02	3.02	1.21	215	0	0
MW021	05/21/03	21.49	6.99	2.49	1.54	291	0.1	0
MW021	01/21/04	19.20	6.96	2.36	1.49	289	0.3	0
MW021	06/22/04	20.12	7.03	3.47	2.38	132	0	0
MW021A	05/23/01	20.90	6.72	20.00	1.30	144	0	NR

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW021A	01/24/02	17.20	5.98	18.00	5.80	164	0	0
MW021A	09/05/02	22.41	6.71	17.10	0.77	188	0	0
MW021A	12/11/02	16.44	6.53	18.60	0.49	4	NR	NR
MW021A	03/11/03	19.78	5.55	17.30	0.39	263	NR	NR
MW021A	05/21/03	21.43	6.72	15.50	0.50	98	NR	NR
MW021A	01/21/04	19.60	6.58	16.01	1.72	303	NR	NR
MW021A	06/22/04	19.99	6.64	23.49	1.72	149	0	0
MW022A	05/23/01	24.92	7.93	0.37	2.50	73	NR	NR
MW022A	01/24/02	17.20	6.33	2.70	1.30	222	0	0
MW022A	09/05/02	25.00	6.25	2.14	1.83	185	0	0
MW022A	12/16/02	20.90	5.40	2.55	0.46	246	NR	NR
MW022A	03/12/03	22.57	5.46	2.89	0.57	275	NR	NR
MW022A	05/29/03	23.30	6.16	2.15	0.92	166	NR	NR
MW022A	01/22/04	20.80	7.36	1.96	2.59	112	NR	NR
MW022A	06/23/04	22.09	6.92	2.58	2.03	203	0	0
MW023	05/29/01	22.06	7.50	0.58	4.80	82	0	NR
MW023	08/30/01	22.40	6.96	5.70	6.60	137	0	NR
MW023	09/27/01	20.60	7.20	1.53	NR	NR	NR	NR
MW023	02/07/02	18.50	6.27	6.30	5.50	182	0	0
MW023	09/18/02	22.84	6.08	5.74	5.04	193	0	0
MW023	12/16/02	19.66	6.80	6.04	5.68	245	NR	NR
MW023	03/26/03	19.49	7.12	5.10	6.28	-25	NR	NR
MW023	05/28/03	22.95	7.41	5.46	5.41	-177	NR	NR
MW023	01/21/04	19.38	7.03	4.70	5.13	215	0	0
MW023	07/07/04	22.50	7.06	5.24	61.78	NR	NR	NR
MW023A	01/09/03	22.15	7.51	0.84	3.85	157	0.1	0
MW023A	03/11/03	17.86	7.40	0.73	3.22	177	0.2	0
MW023A	05/28/03	21.48	6.78	0.76	0.64	-110	NR	NR
MW023A	01/15/04	20.02	7.24	0.80	4.51	305	NR	NR
MW023A	04/16/04	20.97	7.50	0.97	6.29	149	0	0
MW024	01/09/02	20.02	7.14	2.04	3.10	174	0.1	0
MW024	03/12/03	20.36	6.79	1.72	3.56	75	0	0
MW024	05/28/03	21.40	6.44	1.60	2.91	218	0.3	0
MW024	01/15/04	19.77	6.98	2.05	3.56	327	0	0
MW024	06/22/04	20.50	6.93	2.47	NR	NR	0	0
MW024A	05/23/01	19.50	6.90	2.00	5.50	245	0	NR
MW024A	02/06/02	17.60	6.01	1.80	4.20	190	0	0
MW024A	09/10/02	22.34	6.75	2.25	2.94	198	0	0
MW024A	12/17/02	21.57	7.11	2.59	4.47	204	NR	NR
MW024A	03/17/03	20.39	6.95	2.61	4.11	234	NR	NR
MW024A	05/28/03	22.38	6.53	2.77	3.51	204	NR	NR
MW024A	01/15/04	19.73	7.08	2.76	4.94	332	NR	NR
MW024A	06/24/04	20.76	7.11	3.23	5.41	161	0	0
MW025	05/29/01	23.08	6.84	0.46	4.80	80	0	NR
MW025	08/27/01	22.10	6.87	2.00	6.10	110	0	NR
MW025	09/27/01	21.50	7.31	1.23	NR	NR	NR	NR
MW025	01/31/02	17.80	6.94	4.10	8.00	193	0	0

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW025	09/17/02	23.89	7.00	4.23	4.63	157	0	0
MW025	01/02/03	17.61	6.06	1.53	2.45	188	NR	NR
MW025	03/11/03	20.36	6.86	2.35	2.66	123	NR	NR
MW025	05/29/03	23.80	6.80	2.14	4.02	153	NR	NR
MW025	01/07/04	18.41	7.41	2.34	1.96	68	NR	NR
MW025	06/22/04	21.12	6.84	3.09	4.56	162	0	0
MW026	05/18/01	20.80	6.64	3.35	6.55	199	0	NR
MW026	01/22/02	19.20	5.15	3.50	6.10	189	0	0
MW026	09/04/02	23.55	6.85	3.09	4.80	159	0	0
MW026	12/17/02	20.44	6.90	3.31	5.05	198	NR	NR
MW026	03/11/03	21.43	6.62	2.86	4.92	135	NR	NR
MW026	05/27/03	21.18	6.59	2.61	5.89	237	NR	NR
MW026	01/06/04	18.51	6.97	2.53	2.70	34	NR	NR
MW026	06/15/04	22.05	6.84	3.77	5.42	161	0	0
MW027	05/18/01	22.10	6.64	2.00	6.94	180	0	NR
MW027	01/24/02	15.60	4.83	2.00	0.60	3	0	0
MW027	09/04/02	22.88	7.03	1.97	4.82	160	0	0
MW027	12/17/02	21.09	7.00	2.13	6.29	208	NR	NR
MW027	03/11/03	19.36	5.72	2.26	4.47	283	NR	NR
MW027	05/22/03	19.60	6.87	2.09	5.75	193	NR	NR
MW027	01/06/04	17.06	6.78	1.56	3.33	45	NR	NR
MW027	06/17/04	23.56	7.05	2.41	4.73	154	0	0
MW028	05/22/01	19.80	6.23	5.40	2.10	273	0	NR
MW028	01/24/02	16.00	6.84	4.70	5.50	124	0	0
MW028	09/04/02	23.65	7.00	4.81	0.61	157	0	0
MW028	12/18/02	17.53	7.16	4.45	1.41	158	NR	NR
MW028	03/10/03	19.06	7.26	4.49	1.56	244	NR	NR
MW028	05/22/03	19.20	7.22	3.57	1.57	164	NR	NR
MW028	01/28/04	19.42	7.05	3.64	4.11	339	NR	NR
MW028	06/09/04	25.73	7.16	3.54	4.49	186	0	NR
MW029	05/18/01	22.29	4.41	0.13	6.80	113	0	NR
MW029	02/06/02	18.80	6.01	2.00	7.80	203	0	0
MW029	09/09/02	23.52	7.36	1.20	4.92	185	0	0
MW029	12/18/02	18.03	5.79	1.20	4.38	189	NR	NR
MW029	03/10/03	20.78	5.97	1.52	2.42	253	NR	NR
MW029	05/27/03	20.36	7.90	1.18	6.60	-125	NR	NR
MW029	01/13/04	18.84	7.46	1.08	7.01	294	NR	NR
MW029	06/10/04	21.23	7.36	1.19	7.44	99	NR	NR
MW030	04/24/02	29.20	4.32	0.73	4.60	188	0	0
MW030	09/09/02	23.30	7.31	1.56	2.75	180	0	0
MW030	12/18/02	18.46	5.78	1.40	2.31	219	NR	NR
MW030	03/10/03	21.44	5.95	1.48	3.45	277	NR	NR
MW030	05/27/03	21.20	6.96	1.34	2.81	-132	NR	NR
MW030	01/13/04	19.06	7.21	1.71	5.08	287	NR	NR
MW030	06/15/04	22.59	7.27	2.23	6.68	182	0	0
MW031	04/25/02	14.90	5.27	0.68	NR	NR	0	0
MW031	09/10/02	23.24	8.00	1.65	0.82	24	0	0

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW031	12/18/02	17.98	6.92	1.56	0.51	184	NR	NR
MW031	03/10/03	20.00	5.92	1.40	0.47	84	NR	NR
MW031	05/28/03	20.18	7.58	1.42	3.64	-184	NR	NR
MW031	01/12/04	20.11	7.10	1.38	1.45	250	NR	NR
MW031	06/15/04	21.78	6.85	1.78	1.77	96	0	0
MW032	04/02/02	19.90	6.17	1.80	6.30	143	0	0
MW032	09/04/02	24.85	6.96	2.20	0.47	144	0	0
MW032	12/18/02	18.95	7.14	2.48	1.34	154	0	0
MW032	03/10/03	20.54	6.86	2.12	1.02	-5	NR	NR
MW032	05/22/03	20.24	5.81	1.98	1.71	177	NR	NR
MW032	01/07/04	19.85	7.47	1.61	2.17	62	NR	NR
MW032	06/15/04	22.96	7.08	2.17	4.86	133	NR	NR
MW033	04/03/02	19.40	5.98	3.30	3.30	-60	0.5	0
MW033	09/23/02	24.06	7.26	3.53	1.60	-170	1	0.424
MW033	01/08/03	20.98	7.09	3.44	0.23	-304	0.6	0.55
MW033	03/27/03	22.15	6.79	2.91	0.46	-238	0.25	1.75
MW033	06/05/03	23.47	6.13	2.65	0.22	-77	0.4	>2.25
MW033	01/07/04	19.98	7.29	2.88	0.39	-89	1.8	0.6
MW033	07/28/04	21.14	7.38	3.92	0.38	48	1	0
MW034	04/03/02	17.20	6.38	3.50	5.30	151	0	0
MW034	09/17/02	22.10	7.43	3.48	2.35	161	0	0
MW034	12/05/02	16.49	6.98	3.51	2.09	165	0	0
MW034	03/18/03	19.67	6.89	3.17	1.87	-1	0	0
MW034	06/02/03	25.18	6.31	2.97	2.13	250	0.2	0.1
MW034	01/19/04	19.26	6.93	3.05	2.95	398	0	0
MW034	06/24/04	21.26	6.81	3.65	3.06	188	0	0
MW035	08/30/01	20.90	7.06	1.00	6.00	112	0	NR
MW035	01/29/02	20.50	6.91	2.40	1.00	147	0	0
MW035	09/12/02	24.77	7.19	1.20	3.33	192	0	0
MW035	12/19/02	11.38	6.44	0.93	5.21	162	0	0
MW035	03/05/03	19.73	6.23	1.23	3.28	218	0	0
MW035	05/27/03	23.73	6.35	1.26	2.37	261	0.2	0.1
MW035	01/20/04	19.67	6.62	1.30	1.48	281	0	0
MW035	06/22/04	20.60	6.71	1.35	NR	NR	0	0
MW036	08/27/01	24.40	6.64	1.70	2.00	39	0	NR
MW036	02/07/02	19.70	6.38	1.90	5.30	-23	1.5	0
MW036	09/19/02	22.53	7.99	4.04	0.75	-50	2	0
MW036	01/07/03	19.13	5.97	2.53	0.31	145	0	0
MW036	03/26/03	21.38	6.70	2.98	1.47	-156	2.25	0
MW036	06/05/03	21.87	6.59	2.47	0.26	55	2.2	0
MW036	01/27/04	20.84	7.24	2.64	1.31	58	2.6	0
MW036	07/27/04	21.70	6.79	3.68	0.22	127	5	0
MW037	08/29/01	23.00	7.13	3.70	3.20	-70	1	NR
MW037	02/07/02	19.20	6.36	3.60	5.20	-190	4	0
MW037	09/19/02	21.97	8.39	2.91	0.55	-106	3.2	0
MW037	01/08/03	20.42	7.18	2.52	0.85	-19	<0.1	0
MW037	03/27/03	20.84	7.28	2.11	2.25	-107	4	0.25

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW037	06/05/03	22.90	6.93	2.06	0.56	-67	5.2	0.06
MW037	01/27/04	20.35	7.33	2.53	1.12	3	5.4	0
MW037	07/28/04	21.34	7.05	3.33	0.34	23	6	0.45
MW038	08/29/01	22.60	6.91	1.70	6.10	399	0	NR
MW038	02/07/02	20.40	6.19	1.80	6.40	14	1	0
MW038	09/19/02	23.05	7.41	1.74	1.81	-97	6.2	0
MW038	01/07/03	17.45	6.96	1.78	3.83	34	0	0
MW038	03/19/03	19.42	6.97	1.60	0.55	-55	0	0
MW038	06/05/03	22.07	6.18	1.48	0.25	52	6	0
MW038	01/27/04	21.18	7.36	2.46	1.32	58	1.4	0
MW038	07/28/04	21.62	6.89	3.45	0.36	148	NR	NR
MW039A	08/30/01	23.10	7.62	0.90	6.50	114	0	NR
MW039A	01/31/02	17.10	6.42	1.30	8.80	176	0	0
MW039A	09/10/02	25.09	7.49	1.35	4.21	174	0	0
MW039A	12/26/02	17.15	7.43	1.40	6.07	161	0	0
MW039A	03/17/03	21.21	6.25	1.31	4.65	220	NR	NR
MW039A	06/02/03	27.36	6.03	1.28	4.78	243	NR	NR
MW039A	01/20/03	20.32	7.46	1.10	5.78	318	NR	NR
MW039A	06/24/04	23.28	7.01	3.27	3.29	36	0	0
MW040A	04/02/02	19.40	6.06	0.76	5.60	143	0	0
MW040A	09/05/02	21.83	7.53	1.06	3.22	150	0	0
MW040A	12/18/02	18.59	7.24	1.03	3.13	163	NR	NR
MW040A	03/11/03	20.43	6.68	0.80	4.19	155	NR	NR
MW040A	05/22/03	21.00	7.20	0.83	5.20	164	NR	NR
MW040A	01/19/04	19.92	7.46	0.65	3.53	206	NR	NR
MW040A	06/16/04	21.29	7.63	0.92	7.36	165	0	0
MW041A	05/20/02	20.40	6.27	3.60	7.30	86	0	0
MW041A	09/17/02	23.26	8.15	2.61	2.40	132	0	0
MW041A	12/05/02	15.52	7.28	2.55	2.13	163	NR	NR
MW041A	03/18/03	17.68	7.13	2.25	1.01	-45	NR	NR
MW041A	06/02/03	23.33	6.46	2.09	0.92	237	NR	NR
MW041A	01/19/03	19.74	7.14	2.78	4.93	342	NR	NR
MW041A	07/01/04	21.66	6.87	4.23	3.61	299	0	0
MW042A	08/30/01	22.00	6.85	19.00	5.10	158	0	NR
MW042A	01/29/02	19.50	7.28	20.00	1.40	175	0	0
MW042A	09/05/02	23.00	6.96	15.20	0.99	172	0	0
MW042A	12/18/02	18.79	6.42	14.70	0.23	183	NR	NR
MW042A	03/12/03	19.99	5.52	10.65	0.70	249	NR	NR
MW042A	05/28/03	22.75	6.02	11.16	0.92	195	NR	NR
MW042A	01/20/03	19.84	6.79	12.70	1.10	288	NR	NR
MW042A	06/15/04	22.84	6.92	18.66	1.65	164	0	0
MW043	04/25/02	11.50	5.25	1.03	NR	NR	0	0
MW043	09/11/02	22.01	7.43	3.09	1.31	195	0	0
MW043	12/19/02	18.26	6.16	4.10	0.28	189	0	0
MW043	03/19/03	17.90	6.57	2.30	1.28	-41	0	0
MW043	05/27/03	22.61	7.43	2.43	0.51	223	0.1	0.2
MW043	01/21/04	19.14	7.21	2.22	1.97	192	0.2	0

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW043	06/22/04	20.90	7.08	2.60	NR	NR	0	0
MW044	04/03/02	18.50	6.36	5.20	3.80	174	0	0
MW044	09/18/02	24.68	7.00	4.83	0.68	188	0	0
MW044	01/02/03	18.62	5.84	3.90	1.00	207	0	0
MW044	03/17/03	19.96	6.60	4.47	0.26	163	0	0
MW044	06/04/03	23.45	5.98	3.20	0.37	241	0	0
MW044	01/19/04	20.04	6.67	4.00	1.12	307	0	0
MW044	06/24/04	20.69	6.63	4.93	1.11	159	0	0
MW045	04/04/02	19.70	6.09	2.80	2.70	144	0.5	0
MW045	09/12/02	22.58	7.12	2.71	4.76	182	0	0
MW045	12/19/02	17.85	6.41	2.67	0.79	162	0	0
MW045	03/05/03	20.33	6.10	2.77	1.30	213	0	0
MW045	05/27/03	20.01	6.41	2.31	3.44	240	0.3	0
MW045	01/22/04	20.53	7.33	2.27	0.88	97	0	0
MW045	07/27/04	20.96	7.12	3.10	0.55	249	NR	NR
MW046	04/04/02	19.70	6.37	2.40	5.30	73	0	0
MW046	09/19/02	21.22	8.02	1.91	1.03	109	0	0
MW046	01/07/03	19.12	6.36	1.94	0.75	224	0	0
MW046	03/20/03	17.43	7.80	1.84	1.45	13	0	0
MW046	06/04/03	26.70	8.25	2.12	1.05	-301	0	0
MW046	01/27/04	20.51	7.38	1.67	1.24	52	0	0
MW046	07/27/04	21.76	7.02	1.95	0.38	181	1	0
MW046A	12/09/02	22.30	6.87	2.97	NR	NR	NR	NR
MW046A	03/13/03	21.70	6.72	2.35	0.30	231	0	0
MW046A	05/29/03	22.52	7.36	2.64	0.34	-177	0	0
MW046A	01/27/04	20.68	7.33	2.66	1.60	45	0	0
MW046A	07/27/04	21.53	6.88	3.39	0.16	251	0	0
MW047	04/04/02	20.30	5.99	3.20	3.40	172	0	0
MW047	09/17/02	25.21	7.16	4.42	0.82	201	0	0
MW047	01/02/03	16.88	7.06	4.11	1.45	177	0	0
MW047	03/17/03	20.33	5.74	2.59	2.34	262	0	0
MW047	06/02/03	24.93	6.27	2.48	2.95	249	0.1	0
MW047	01/20/04	20.02	7.10	1.98	2.28	183	0	0
MW047	06/24/04	21.67	6.80	3.23	2.60	-63	0	0
MW048SA	09/16/02	22.50	7.37	2.26	5.33	185	0	0
MW048SA	12/04/02	15.59	5.95	2.29	5.87	200	<0.1	0
MW048SA	03/17/03	19.75	5.52	1.99	4.61	261	0	0
MW048SA	06/02/03	20.52	8.34	2.39	4.59	-312	0	0
MW048SA	12/17/03	19.93	7.26	2.61	3.72	108	NR	NR
MW048SA	06/29/04	20.85	7.26	2.73	4.01	220	0	0
MW049SA	09/16/02	21.96	7.02	9.93	3.29	189	0	0
MW049SA	12/04/02	17.31	6.16	10.11	0.37	138	0	0
MW049SA	03/13/03	21.04	5.68	9.12	0.55	102	NR	NR
MW049SA	05/28/03	22.25	6.01	8.61	1.49	201	0.3	0
MW049SA	12/17/03	19.49	6.87	11.07	1.37	117	NR	NR
MW049SA	06/29/04	20.70	6.85	11.17	0.58	210	0	0
MW050SA	09/10/02	21.70	7.22	4.82	2.60	167	0	0

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW050SA	12/05/02	16.36	6.18	3.67	4.34	210	NR	NR
MW050SA	03/12/03	21.99	5.97	5.04	3.14	253	NR	NR
MW050SA	06/02/03	22.35	8.15	6.34	1.35	-333	NR	NR
MW050SA	12/17/03	19.75	7.44	6.07	1.95	109	NR	NR
MW050SA	06/24/04	20.75	6.88	7.79	1.95	187	0	0
MW051SA	10/10/02	22.90	7.10	64.30	NR	NR	0	0
MW051SA	12/03/02	11.43	6.49	6.47	1.83	229	NR	NR
MW051SA	03/19/03	16.30	5.74	5.86	0.39	29	NR	NR
MW051SA	06/03/03	24.17	8.27	6.69	1.47	-116	NR	NR
MW051SA	12/17/03	19.73	7.13	7.43	1.70	112	NR	NR
MW051SA	07/01/04	21.38	6.67	7.54	2.14	301	0	0
MW052SA	10/10/02	22.60	7.02	60.90	NR	NR	0	0
MW052SA	12/03/02	14.03	6.48	4.85	3.44	226	NR	NR
MW052SA	03/18/03	19.70	6.85	4.58	3.57	-25	NR	NR
MW052SA	06/02/03	24.00	8.25	5.14	2.40	-298	NR	NR
MW052SA	12/18/03	19.64	7.03	6.62	2.17	142	NR	NR
MW052SA	07/01/04	21.19	6.65	6.43	2.75	316	NR	NR
MW053SA	09/18/02	22.04	7.31	1.93	NR	194	0	0
MW053SA	12/02/02	20.24	6.67	2.13	63.30	233	0	0
MW053SA	03/12/03	20.36	5.89	2.03	53.10	88	NR	NR
MW053SA	05/21/03	21.76	7.22	1.92	67.00	-30	NR	NR
MW053SA	12/18/03	19.46	7.30	2.19	3.54	122	NR	NR
MW053SA	02/18/04	20.29	7.34	1.54	6.54	206	NR	NR
MW053SA	03/04/04	16.37	6.95	1.71	4.32	332	0	0
MW053SA	07/07/04	21.70	7.34	1.34	NR	NR	NR	NR
MW054SA	01/27/03	22.07	7.21	4.23	7.41	170	0	0
MW054SA	03/19/03	18.17	5.39	2.66	2.41	292	0	0
MW054SA	05/21/03	19.75	7.69	3.10	6.17	-40	NR	NR
MW054SA	12/16/03	18.80	7.26	4.87	3.05	133	NR	NR
MW054SA	02/17/04	20.82	7.13	3.35	7.01	125	NR	NR
MW054SA	06/30/04	21.14	6.86	4.60	3.63	153	NR	NR
MW055SA	01/06/03	20.60	7.33	3.01	8.40	145	0.1	0
MW055SA	03/19/03	18.21	5.25	2.27	0.98	284	0	0
MW055SA	05/21/03	18.36	7.22	2.46	6.08	-59	NR	NR
MW055SA	12/16/03	18.32	7.31	3.18	3.00	124	0	0
MW055SA	04/21/04	20.19	7.31	3.15	3.66	357	0	0
MW055SA	05/25/04	21.80	7.18	3.18	2.69	264	NR	NR
MW055SA	06/29/04	21.28	7.05	3.22	NR	339	0	0
MW055SA	08/05/04	25.91	7.33	3.00	4.77	302	0	0
MW056SA	01/07/03	21.70	7.21	5.80	7.30	154	0	0
MW056SA	03/17/03	19.17	6.84	1.60	6.02	113	0	0
MW056SA	05/21/03	18.47	7.00	4.91	4.32	-72	NR	NR
MW056SA	12/16/03	17.55	7.28	6.35	3.39	135	NR	NR
MW056SA	07/01/04	20.97	6.87	6.45	3.76	359	NR	NR
MW057SA	01/28/03	18.69	7.10	3.09	6.22	215	0	0
MW057SA	03/12/03	19.20	5.93	4.92	2.98	-2	0	0
MW057SA	05/20/03	17.92	6.27	1.68	5.96	211	NR	NR

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW057SA	12/17/03	19.36	7.26	3.09	3.09	114	NR	NR
MW057SA	06/16/04	21.35	7.03	3.18	6.58	230	0	0
MW058	01/28/03	20.79	7.33	3.20	6.55	208	0	0
MW058	03/19/03	18.96	5.09	4.60	0.77	286	0	0
MW058	06/03/03	23.21	8.46	5.38	3.42	-91	NR	NR
MW058	01/12/04	20.00	7.22	3.02	5.87	299	0	0
MW058	06/22/04	20.83	7.24	3.83	6.73	182	0	0
MW059	01/29/03	19.28	7.35	2.54	5.02	201	0	0
MW059	03/20/03	17.31	5.30	3.46	0.55	296	0.5	0
MW059	05/29/03	25.32	7.24	4.11	4.59	-127	NR	NR
MW059	01/15/04	19.93	7.17	2.31	2.47	297	NR	NR
MW059	06/16/04	20.95	7.31	2.87	2.92	-134	0	0
MW060	01/08/03	20.41	7.11	4.11	2.02	147	0.2	0
MW060	03/24/03	21.15	5.36	4.00	0.46	293	NR	NR
MW060	05/27/03	20.12	6.86	4.20	0.85	282	NR	NR
MW060	01/12/04	20.67	7.26	3.83	1.08	276	NR	NR
MW060	06/23/04	21.74	6.98	4.60	1.88	144	0	0
MW061	01/08/03	19.99	7.22	4.38	1.75	67	0.3	0
MW061	03/24/03	22.00	5.29	5.04	0.25	284	NR	NR
MW061	06/04/03	20.64	5.68	4.98	0.30	228	NR	NR
MW061	01/08/04	20.15	6.87	3.74	1.07	185	NR	NR
MW061	07/08/04	22.30	6.72	4.30	NR	NR	NR	NR
MW062A	01/14/03	19.75	7.60	0.24	8.20	105	8.2	NR
MW062A	03/06/03	17.77	6.42	0.80	1.86	216	1.86	NR
MW062A	05/22/03	25.97	7.27	0.73	0.77	214	0.77	NR
MW062A	01/15/04	19.45	7.53	0.72	5.58	331	NR	NR
MW062A	06/17/04	21.09	6.21	0.94	7.45	190	0	0
MW063A	01/13/03	21.31	7.71	0.51	7.22	227	NR	NR
MW063A	03/06/03	19.29	6.01	0.82	3.75	229	NR	NR
MW063A	05/22/03	22.16	6.12	0.76	1.78	252	NR	NR
MW063A	01/14/04	20.02	7.44	0.73	3.55	317	NR	NR
MW063A	06/15/04	22.50	7.57	0.92	6.86	224	NR	NR
MW064SA	03/24/03	20.77	5.35	4.29	0.79	291	NR	NR
MW064SA	05/20/03	17.58	6.42	4.54	2.44	231	NR	NR
MW064SA	12/09/03	19.00	7.08	0.52	5.52	146	NR	NR
MW064SA	04/21/04	20.33	7.02	6.50	1.40	353	0	0
MW064SA	04/28/04	19.87	7.18	6.07	2.91	423	0	0
MW064SA	05/27/04	19.88	6.75	6.42	1.16	98	0	0
MW064SA	06/07/04	21.82	6.91	0.13	2.42	156	0	0
MW064SA	07/22/04	25.74	6.69	6.84	1.28	277	0.8	0
MW064SA	08/05/04	29.59	7.07	8.03	1.57	281	0.1	0
MW064SA	08/24/04	23.57	7.17	5.93	1.62	46	0	0
MW065SA	03/25/03	17.63	5.47	3.84	3.82	298	NR	NR
MW065SA	05/20/03	17.85	6.74	3.93	7.47	234	NR	NR
MW065SA	12/10/03	19.70	7.05	0.46	6.23	190	NR	NR
MW065SA	06/16/04	21.42	6.88	5.45	5.68	117	0	0
MW066SA	03/25/03	19.12	5.28	4.71	0.77	279	NR	NR

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW066SA	05/20/03	17.36	6.92	4.86	7.33	267	NR	NR
MW066SA	12/16/03	18.95	7.06	6.62	2.94	105	NR	NR
MW066SA	06/30/04	21.05	6.87	6.66	4.48	176	NR	NR
MW067SA	03/25/03	19.75	5.78	2.07	2.23	279	NR	NR
MW067SA	05/20/03	18.66	7.82	1.97	4.82	-167	NR	NR
MW067SA	12/10/03	19.30	7.27	0.21	6.06	173	NR	NR
MW067SA	02/17/04	20.17	6.96	1.66	5.23	119	NR	NR
MW067SA	06/10/04	21.22	7.02	2.38	5.16	74	0	0
MW068	03/26/03	19.34	5.87	65.70	0.68	156	NR	NR
MW068	05/29/03	20.97	6.43	67.30	0.68	215	NR	NR
MW068	01/08/04	19.56	6.55	5.43	0.72	70	NR	NR
MW068	06/15/04	20.51	7.09	8.61	1.13	-154	0	0
MW069	03/25/03	22.28	6.35	57.60	1.29	250	NR	NR
MW069	05/29/03	27.18	6.55	56.80	0.30	162	NR	NR
MW069	01/08/04	20.60	6.42	8.58	0.72	7	NR	NR
MW069	06/15/04	21.51	6.59	10.29	2.75	135	0	0
MW070	03/25/03	20.51	6.76	0.89	3.46	265	NR	NR
MW070	05/29/03	21.13	7.73	0.98	5.42	-152	NR	NR
MW070	01/13/04	19.81	7.37	0.97	6.02	287	NR	NR
MW070	06/15/04	21.38	7.38	1.24	5.46	21	0	0
MW070A	03/25/03	20.71	5.92	0.69	4.00	286	NR	NR
MW070A	05/29/03	22.24	7.74	0.78	2.66	-101	NR	NR
MW070A	01/13/04	20.33	7.49	0.74	3.18	292	NR	NR
MW070A	06/15/04	21.42	7.55	0.92	5.20	-109	0	0
MW071SA	05/20/03	18.20	7.58	2.29	1.13	-195	NR	NR
MW071SA	12/15/03	19.27	7.20	3.61	1.85	111	NR	NR
MW071SA	06/09/04	21.82	6.92	3.45	3.76	130	0	0
MW071SA	06/23/04	20.08	6.88	3.88	4.02	150	0	0
MW071SA	07/08/04	21.20	6.54	3.20	NS	111	0	0
MW072SA	05/20/03	17.74	7.54	2.12	6.99	-153	NR	NR
MW072SA	12/15/03	19.43	7.40	2.97	2.88	114	NR	NR
MW072SA	06/17/04	22.16	7.09	2.97	6.14	224	0	0
MW073SA	05/20/03	17.41	7.52	1.79	1.61	-148	NR	NR
MW073SA	12/15/03	19.20	7.22	2.33	1.84	115	NR	NR
MW073SA	06/17/04	20.75	6.95	2.30	3.67	157	0	0
MW074SA	02/04/04	19.43	6.90	3.36	5.07	314	0	0
MW074SA	06/10/04	21.75	7.04	3.65	7.17	148	0	0
MW075SA	02/05/04	20.32	6.92	3.86	5.20	310	0	0
MW075SA	06/10/04	21.89	7.07	4.30	7.45	147	NR	NR
MW076SA	02/04/04	19.27	7.18	2.69	5.69	345	0	0
MW076SA	06/10/04	21.63	7.15	3.10	7.39	168	NR	NR
MW077SA	02/03/04	19.49	6.71	11.04	2.56	350	0	0
MW077SA	06/14/04	21.49	6.79	10.50	0.79	143	NR	NR
MW078SA	06/14/04	21.39	7.16	1.53	3.83	145	NR	NR
MW079SA	03/18/04	21.11	7.14	4.82	4.74	268	0	0
MW079SA	04/15/04	27.85	7.45	0.01	6.08	-46	0	0
MW079SA	04/23/04	21.01	5.64	7.44	0.30	-434	0.9	0

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW079SA	05/20/04	31.89	5.18	0.00	6.71	106	2.6	0.15
MW079SA	06/17/04	23.98	5.48	7.12	0.19	-273	NR	NR
MW079SA	08/02/04	26.10	5.14	3.73	0.14	-116	1.8	0
MW079SA	08/31/04	24.56	5.17	12.94	0.20	-89	9.6	0
MW080SA	03/17/04	20.67	7.35	3.64	5.58	278	0	0
MW080SA	04/15/04	21.73	7.34	3.98	6.15	-18	0	0
MW080SA	04/23/04	24.20	6.94	2.99	5.59	314	0.1	0
MW080SA	05/20/04	23.77	6.69	3.96	7.18	149	0	0
MW080SA	06/17/04	24.59	6.89	3.83	5.82	-41	NR	NR
MW080SA	08/02/04	25.41	7.05	9.34	5.74	177	0.8	1.25
MW081SA	03/25/04	20.50	7.25	5.14	4.43	274	0	0
MW081SA	04/15/04	24.40	7.17	5.20	3.46	-71	0	0
MW081SA	04/23/04	20.72	7.15	3.72	2.43	356	0	0
MW081SA	05/20/04	29.97	5.77	0.00	6.80	244	10	0
MW081SA	06/17/04	24.56	5.63	9.10	0.10	-213	NR	NR
MW081SA	08/03/04	26.32	5.71	16.80	0.29	-115	9.8	1.4
MW082SA	04/19/04	22.10	7.32	7.32	0.96	400	0	0
MW082SA	04/28/04	18.74	7.08	7.73	2.80	421	0.2	0
MW082SA	05/27/04	22.74	4.37	9.59	0.18	-383	NR	NR
MW082SA	06/08/04	20.35	4.07	2.12	0.89	-350	3	0
MW082SA	06/22/04	20.18	3.92	11.26	0.64	-368	NR	NR
MW082SA	07/21/04	32.57	4.42	12.72	1.07	99	2.2	0
MW082SA	08/05/04	28.61	4.76	13.11	0.33	110	5.4	0
MW082SA	08/23/04	28.53	5.16	13.35	0.13	46	9.8	0
MW082SA	09/01/04	21.76	4.86	14.52	0.35	-165	9.2	0
MW083SA	03/25/04	19.90	7.19	6.73	4.10	283	0	0
MW083SA	04/21/04	19.42	7.03	7.67	2.24	331	0	0
MW083SA	04/28/04	18.85	7.16	7.73	3.84	427	0	0
MW083SA	05/27/04	22.63	5.67	9.97	0.15	-436	NR	NR
MW083SA	06/08/04	20.04	5.55	3.61	0.61	-423	2.8	0
MW083SA	07/22/04	23.31	4.50	12.38	1.04	102	2	0
MW083SA	08/05/04	27.48	5.05	6.53	0.32	104	4.6	0
MW083SA	08/23/04	28.86	5.20	13.14	0.26	23	8.2	0
MW083SA	09/01/04	23.42	4.73	13.26	0.37	-73	9.6	0
MW084SA	03/24/04	20.46	7.07	8.20	4.36	284	0	0
MW084SA	04/21/04	20.86	6.92	10.05	1.88	333	0	0
MW084SA	04/28/04	21.05	7.03	9.99	3.28	425	0.3	0
MW084SA	05/27/04	20.71	6.61	9.85	1.00	135	NR	NR
MW084SA	06/07/04	21.65	6.71	5.48	1.89	155	0	0
MW084SA	07/22/04	28.87	6.63	10.58	1.63	289	0.2	0
MW084SA	08/05/04	31.72	7.18	2.99	3.80	296	0.1	0
MW084SA	08/24/04	25.54	7.04	9.39	2.51	53	0.3	0
MW084SA	09/01/04	21.85	6.97	9.53	1.56	50	0.3	0
MW085SA	03/25/04	20.54	7.23	6.28	4.92	224	0	0
MW085SA	04/21/04	20.83	7.01	7.44	2.20	329	0	0
MW085SA	04/28/04	18.92	7.05	7.49	1.93	425	0.1	0
MW085SA	05/27/04	21.32	6.66	7.35	0.99	-18	NR	NR

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
MW085SA	06/07/04	22.62	6.78	3.63	5.41	129	0	0
MW085SA	07/22/04	26.37	6.65	7.97	1.09	248	0.8	0
MW085SA	08/05/04	33.50	7.07	6.38	3.90	286	0.8	0
MW085SA	08/23/04	27.39	7.02	7.07	1.80	-28	0	0
MW086SA	09/14/04	21.41	7.28	9.14	2.20	174	0	0
MW087M	09/14/04	27.47	7.79	6.02	2.98	273	0	0
MW087M	09/24/04	23.76	8.15	5.41	0.35	421	3	NR
MW088M	09/24/04	27.77	6.09	12.81	0.12	326	4.6	NR
EPWW1	05/29/01	25.30	7.12	4.40	7.70	208	0.6	NR
EPWW1	01/31/02	18.20	6.29	4.50	4.20	67	0	0
EPWW1	09/18/02	26.88	7.75	4.25	2.40	43	2.2	0
EPWW1	12/05/02	19.70	7.33	2.24	NR	NR	NR	NR
EPWW1	03/18/03	19.55	6.95	3.73	6.75	204	0	0
EPWW1	06/05/03	21.28	6.89	3.59	4.02	208	1	0
EPWW1	01/22/04	20.22	7.62	3.57	2.63	125	0.9	0
GOPWW2	05/30/01	20.71	8.95	0.28	5.60	-12	10	NR
GOPWW2	12/04/02	20.30	8.28	2.56	NR	NR	NR	NR
GOPWW2	03/27/03	21.77	7.14	2.48	1.44	11	NR	NR
GOPWW2	06/05/03	24.30	7.53	0.36	NR	NR	8.1	0
GOPWW2	01/14/04	19.83	7.70	2.87	3.42	-85	NS	0.26
GOPWW2	06/15/04	24.96	7.59	3.95	2.10	-165	5.6	0.15
LordWW	06/07/01	20.00	6.81	5.70	2.10	43	5.2	NR
LordWW	02/06/02	17.00	6.05	4.40	0.80	12	3	0
LordWW	09/10/02	20.05	7.76	1.03	0.76	-40	2.6	0
LordWW	12/09/02	16.17	6.70	0.70	0.52	166	NR	NR
LordWW	03/20/03	18.80	5.63	0.83	0.40	200	NR	NR
LordWW	06/05/03	19.55	8.30	1.70	2.13	-266	NR	NR
LordWW	01/22/04	19.19	7.00	3.30	5.32	272	NR	NR
LordWW	06/21/04	20.69	7.04	4.37	6.76	111	4.5	0
RowlandWW	05/30/01	21.53	8.53	0.37	6.80	5	0.8	NR
RowlandWW	02/07/02	17.50	6.22	4.00	6.40	70	1.5	0
RowlandWW	09/23/02	20.86	7.35	3.69	4.60	134	0.8	0
RowlandWW	12/04/02	20.50	7.06	3.40	NR	NR	NR	NR
RowlandWW	03/27/03	22.37	7.02	3.10	6.61	201	NR	NR
RowlandWW	06/05/03	28.10	7.81	0.43	NR	NR	NR	NR
RowlandWW	01/26/04	19.32	7.46	2.97	5.57	118	NR	NR
RowlandWW	06/22/04	20.02	7.03	4.13	5.93	106	0	0
WoodellWW	05/23/01	22.80	7.42	2.20	8.20	259	0	NR
WoodellWW	12/04/02	20.60	7.00	3.27	NR	NR	NR	NR
WoodellWW	03/26/03	21.44	7.02	2.38	7.16	151	NR	NR
WoodellWW	05/22/03	19.83	7.14	2.13	9.30	151	NR	NR
WoodellWW	01/21/04	19.22	6.82	2.65	5.71	301	NR	NR
WoodellWW	06/21/04	20.82	6.92	3.01	6.80	146	0	0
RW002	07/01/03	27.84	6.91	6.45	1.00	177	0	0
RW002	07/09/03	21.88	6.93	6.52	4.09	-14	0	0

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
RW002	07/15/03	22.81	6.88	6.70	1.74	246	0	0
RW002	07/23/03	25.03	6.86	7.66	0.60	-196	0	0
RW002	07/30/03	27.01	6.72	7.23	1.71	322	0	0
RW002	08/08/03	23.00	6.99	6.93	1.52	253	0	0
RW002	08/20/03	25.23	6.89	6.98	1.82	-345	0	0
RW002	09/04/03	21.30	6.86	6.93	1.41	-9	0	0
RW002	09/17/03	30.31	6.94	7.37	1.15	243	0	0
RW002	09/30/03	19.87	6.93	6.87	0.77	279	0	0
RW002	10/14/03	17.69	6.89	5.91	0.46	250	0	0
RW002	10/28/03	21.15	6.96	6.64	0.54	230	0	0
RW002	11/11/03	24.37	6.78	7.00	0.65	120	0	0
RW002	12/08/03	23.67	6.81	7.61	1.00	194	0	0
RW002	01/07/04	9.92	6.94	5.57	0.56	312	0	0
RW002	03/04/04	15.67	6.40	5.62	0.75	356	0	0
RW002	04/01/04	25.06	6.22	7.43	0.96	353	0.2	0
RW002	05/17/04	31.78	6.31	5.90	NR	1	NR	NR
RW002	06/10/04	23.96	5.89	6.80	NR	-232	0	0
RW002	07/08/04	28.76	6.12	7.32	NR	-130	0.4	0
RW002	03/04/04	19.06	6.17	5.89	NR	333	0	0
RW002	07/12/04	21.69	6.31	7.49	NR	172	0	0
RW003	06/19/03	22.76	7.00	3.57	3.38	175	0	NR
RW003	07/02/03	23.84	7.08	4.89	3.86	-347	0	0
RW003	07/08/03	21.29	7.15	4.30	3.66	-90	0	0
RW003	07/15/03	22.53	6.95	4.70	2.57	254	0	0
RW003	07/23/03	25.36	7.06	4.95	2.83	-187	0	0
RW003	07/30/03	24.43	6.86	4.16	2.14	NS	0	0
RW003	08/07/03	22.12	7.06	5.05	4.70	298	0	0
RW003	08/21/03	21.56	7.08	4.56	1.68	-308	0	0
RW003	09/03/03	22.77	7.09	4.23	1.62	92	0	0
RW003	09/18/03	23.29	6.43	4.66	0.75	179	0	0
RW003	09/30/03	26.20	6.81	4.63	1.78	266	0	0
RW003	10/13/03	24.27	6.00	5.27	1.01	251	0	0
RW003	10/28/03	22.37	6.40	5.19	2.53	169	0	0
RW003	11/12/03	20.08	6.17	4.59	1.01	213	0	0
RW003	12/09/03	14.06	6.27	4.21	2.27	114	0	0
RW003	01/07/04	18.08	6.50	4.39	2.47	247	0	0
RW003	02/19/04	20.24	6.39	4.28	4.32	227	0.2	0
RW003	03/10/04	20.29	6.35	4.00	1.79	392	0	0
RW003	04/06/04	22.43	6.31	4.70	3.13	350	0	0
RW003	05/06/04	24.61	6.38	5.22	NR	176	0	0
RW003	06/08/04	25.10	5.93	4.29	NR	259	0	0
RW004A	10/01/01	21.00	7.50	1.39	NR	NR	NR	NR
RW004A	02/04/02	17.10	6.57	5.70	2.10	172	0	0
RW004A	09/18/02	25.84	7.67	5.25	0.94	129	0	0
RW004A	06/09/03	23.36	7.06	3.78	0.47	218	0	0
RW004A	07/01/03	21.07	5.63	16.40	0.32	-484	0	0
RW004A	07/09/03	28.69	4.76	17.40	0.10	-18	0	0

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Table 6
Groundwater Field Measurements
Chevron Texaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

Station Name	Date	Temp-C	pH	SpC-mS/cm	DO-mg/L	ORP-mV	Fe	Sulfide
RW004A	07/15/03	30.40	4.50	12.80	0.17	-130	2.1	0
RW004A	07/23/03	31.76	4.99	9.20	0.20	-355	2	0
RW004A	07/28/03	23.05	4.33	11.35	0.42	-124	3	0
RW004A	08/08/03	22.48	4.44	12.03	0.23	-344	3.25	0
RW004A	08/21/03	31.91	4.96	11.14	0.32	-400	2.3	0
RW004A	09/04/03	24.94	3.89	15.90	0.28	-377	0.9	0
RW004A	09/18/03	24.28	3.97	20.30	1.58	12	2.2	0
RW004A	10/01/03	21.07	3.95	17.50	0.96	-242	2.6	0
RW004A	10/14/03	22.99	3.63	17.20	0.77	-183	1.2	0
RW004A	10/29/03	22.12	4.04	16.90	0.78	-7	2.8	0
RW004A	11/12/03	21.39	3.70	12.31	1.82	25	1.8	0
RW004A	12/09/03	17.24	4.36	11.06	0.88	6	1.8	0
RW004A	01/08/04	18.52	3.70	12.33	1.31	-17	2.4	0
RW004A	03/02/04	11.98	5.04	18.10	0.38	98	6.1	0
RW004A	04/01/04	22.26	4.48	11.41	0.12	8	6	0
RW004A	05/04/04	22.57	3.69	0.00	NR	-6	10	0
RW004A	06/08/04	21.09	3.94	16.60	NR	0	7.9	0
RW004A	07/08/04	34.11	4.15	16.00	NR	-231	0.2	0

Notes:
Temp-C - Temperaure in degrees Celsius
SpC-mS/cm - Specific Conductance in Millisiemens per Centimeter
ORP-mV - Oxygen Reduction Potential in millivolts
Fe - Iron
NR - Not Recorded
DO - Dissolved Oxygen

Table 7
PSH Measurements
ChevronTexaco Eunice #2 (North) Gas Plant

ARCADIS

Station NRme	Date	Time (min)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	PSH Removed (gal)	Groundwater Removed (gal)
MW005	8/19/2003	NR	NR	NR	0	0	0
	8/27/2003	1100	NR	47.33	0	0	0
	9/2/2003	1345	NR	47.37	0	0	0
	9/8/2003	1145	NR	49.22	0	0	0
	9/16/2003	1310	NR	47.29	0	0	0
	9/24/2003	1750	47.27	47.3	0.03	0	0
	10/1/2003	1523	NR	47.28	0	0	0
	10/14/2003	1605	NR	47.3	0	0	0
	10/29/2003	1432	NR	47.36	0	0	0
	12/3/2003	1116	NR	47.51	0	0	0
	12/19/2003	1000	NR	47.51	0	0	0
	5/24/2004	1450	NR	47.3	0	0	0
MW006	8/19/2003	NR	NR	NR	NR	4	NR
	8/27/2003	1100	47.6	49.17	1.57	5.5	4.5
	9/2/2003	1340	47.5	48.88	1.38	5.5	2
	9/2/2003	1435	47.75	48.06	0.31	0	0
	9/8/2003	1105	47.56	49.22	1.66	0	0
	9/8/2003	1150	47.75	48.12	0.37	7.5	NR
	9/16/2003	1305	47.59	49.18	1.59	7.5	NR
	9/16/2003	1410	47.25	47.96	0.71	0	0
	9/24/2003	715	47.49	49.24	1.75	12.5	NR
	9/24/2003	1720	47.67	47.85	0.18	0	0
	10/1/2003	1410	47.54	48.97	1.43	1.5	5.5
	10/1/2003	1605	47.7	48.03	0.33	0	0
	10/2/2003	1450	47.64	48.14	0.5	5	NR
	10/2/2003	1545				0	0
	10/14/2003	1600	47.45	49.39	1.94	3.2	3.8
	10/14/2003	1639	47.72	48.02	0.3	0	0
	10/29/2003	1420	47.35	49.66	2.31	0	0
	10/31/2003	1412	47.76	48.06	0.3	2.5	4
	11/12/2003	1504	47.6	49.37	1.77	2.25	3.75
	12/3/2003	1121	47.52	49.95	2.43	0	0
	12/19/2003	1005	47.52	49.95	2.43	2.5	4
	12/19/2003	1035	47.91	48.31	0.4	0	0
	2/20/2004	1445	47.61	50.48	2.87	1.5	3.5
	2/20/2004	1635	47.97	48.49	0.52	0.5	1.5
	4/8/2004	848	47.54	50.6	3.06	1	10
	5/7/2004	1020	47.45	50.26	2.81	5.5	4
	5/24/2004	1419	47.51	50.24	2.73	3.5	1.5
	6/4/2004	1713	47.51	49.71	2.2	6	0
	6/11/2004	820	47.71	49.59	1.88	2.25	3.75

Table 7
PSH Measurements
ChevronTexaco Eunice #2 (North) Gas Plant

ARCADIS

Station NRme	Date	Time (min)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	PSH Removed (gal)	Groundwater Removed (gal)
	6/25/2004	900	47.72	49.95	2.23	2.25	3.75
	7/9/2004	815	NR	NR	NR	7.5	0
	7/16/2004	1450	NR	NR	NR	4	2
	8/6/2004	1051	47.34	49.76	2.42	3.75	1.75
Total 8-03 to 7-04						97.2	59.3
	8/20/2004	955	47.51	49.26	1.75	2.25	2.25
	9/10/2004	1330	47.3	49.51	2.21	3.5	1.5
	9/14/2004	1500	47.33	48.66	1.33	2.25	2.75

Table 8
Analytical Methods, Hold Times, Sample Containers and Preservatives
ChevronTexaco Eunice #2 (North) Gas Plant
Eunice, Lea County, New Mexico

ARCADIS

Parameter	Analytical Method	Holding Times	Sample Containers and Preservative
Field Parameters			
Dissolved Oxygen	Field Probe	Immediate	NA
Redox potential	Field Probe	Immediate	NA
pH	Field Probe	Immediate	NA
Temperature	Field Probe	Immediate	NA
Specific Conductance	Field Probe	Immediate	NA
Iron, ferrous	HACH Kit	Immediate	NA
Hydrogen Sulfide	HACH Kit	Immediate	NA
Turbidity	Meter	Immediate	NA
Organic Analyses			
Benzene	SW-846 8021B	14 Days	40-ml vial; HCl
Toluene	SW-846 8021B	14 Days	40-ml vial; HCl
Ethylbenzene	SW-846 8021B	14 Days	40-ml vial; HCl
Total Xylenes	SW-846 8021B	14 Days	40-ml vial; HCl
TPH (GRO)	SW-846 8015B; TX1005	14 Days	40-ml vial; HCl
TPH (DRO)	SW-846 8015B	7 days from sample to extraction 28 days from extraction to analysis	Amber liter; Neat
Inorganic Analyses			
Total/Dissolved Chromium	SW-846 6010B	6 Months	500-ml plastic; HNO3
Hexavalent Chromium	SW-846 7197	Immediate	1-Liter; Neat
Total Arsenic	SW-846 6010B	6 Months	500-ml plastic; HNO3
Total Barium	SW-846 6010B	6 Months	500-ml plastic; HNO3
Total Cadmium	SW-846 6010B	6 Months	500-ml plastic; HNO3
Total Lead	SW-846 6010B	6 Months	500-ml plastic; HNO3
Total Mercury	SW-846 7470A	28 Days	500-ml plastic; HNO3
Total Selenium	SW-846 6010B	6 Months	500-ml plastic; HNO3
Total Silver	SW-846 6010B	6 Months	500-ml plastic; HNO3
Carbonate	SM2320B	14 Days	1-Liter; Neat
Bicarbonate	SM2320B	14 Days	1-Liter; Neat
Total Alkalinity	SM2320B	14 Days	1-Liter; Neat
Total Dissolved Solids	EPA 160.1	7 Days	1-Liter; Neat
Sulfate	EPA 300.0	28 days	1-Liter; Neat
Nitrate	EPA 300.0	48 hours	1-Liter; Neat
Chlorides	EPA 300.0	28 days	1-Liter; Neat
Calcium	SW-846 6010B	6 Months	500-ml plastic; HNO3
Sodium	SW-846 6010B	6 Months	500-ml plastic; HNO3
Magnesium	SW-846 6010B	6 Months	500-ml plastic; HNO3
Potassium	SW-846 6010B	6 Months	500-ml plastic; HNO3
Total Manganese	SW-846 6010B	6 Months	500-ml plastic; HNO3
Dissolved Manganese	SW-846 6010B	6 Months	500-ml plastic; HNO3

Appendix A

Summary of Parameters Demonstrating IRZ Infulence, Study area IRZ Pilot Program, Injection in the Deep and Shallow Zones, Distal Array IRZ Pilot Program, Injection into the Deep Zone

Summary of Parameters Demonstrating IRZ Influence

Study Area IRZ Pilot Program

Injection into the Deep and Shallow Zones

Chronological Listing of IRZ Effects, Listed By Injection Well that Includes Various Injection Intervals and Monitor Wells Screened at Various Intervals and Located at Various Distances from the Injection Point

Injection Well 1 – Screened between 40 to 95 feet.
- Terminates at surface of clayey gravel.

- Monitor Well 11 – Screened between 47 and 62 feet.
  - Terminates in sand unit.
  - Located 38 feet from the injection well.
    - Day 68 – 0.56 ft/day
      - Deep ORP response -85 mV
    - Day 73 – 0.52 ft/day
      - Sulfide detected – 4 mg/L
- Monitor Well 11M – Screened between 80 to 90 feet.
  - Terminates in sand unit.
  - Located 36 feet from the injection well.
    - Day 12 – 2.0 ft/day
      - Initial ORP response - -40 mV
    - Day 40 – 0.9 ft/day
      - Hexavalent chrome to ND
    - Day 44 – 0.82 ft/day
      - Sulfate decrease – 2170 to 1400 mg/L
      - Nitrate decrease – 8 to 0.8 mg/L
      - TOC increase – 5 to 38 mg/L
      - Manganese detected – 1.86 mg/L
      - Total iron spike – 7.3 mg/L
    - Day 68 – 0.53 ft/day
      - Deep ORP response - -289 mV
    - Day 73 – 0.49 ft/day
      - Alkalinity increase – 215 to 310 mg/L
      - Sulfide increase – 4 mg/L
    - Day 103 – 0.35 ft/day
      - TOC doubles – 200 mg/L
    - Day 137 – 0.26 ft/day
      - Alkalinity spike -1460 mg/L
      - TOC spike - 1000 mg/L
      - Carbon dioxide spike – 280 mg/L
      - Methane spike – 29 µg/L
      - Total and ferrous iron spike
      - Ca, Mg, Na spike – 835, 383, 850 mg/L respectively

- Monitor Well 11A – Screened between 107.5 and 115.0 ft.
  - Terminates in Triassic redbed.
  - Located 40 feet from the injection well.
    - Day 44 – 0.91 ft/day
      - Alkalinity decrease (?) that is permanent 269 to 159 mg/L
      - Chloride spike – 710 to 1400 mg/L
    - Day 68 – 0.51 ft/day
      - Initial ORP response - -138 mV
    - Day 103 – 0.39 ft/day
      - Sulfide detected – 0.06 mg/L
      - Methane increase – 17 µg/L
    - Day 158 - 0.25 ft/day
      - Deep ORP response - 385 mV
- Recovery Well 2 – Screened between 48 and 68 feet.
  - Terminates in sand unit.
  - Located 15 feet from the injection well.
    - Day 40 – 0.38 ft/day
      - Deep ORP response - -232 mV
    - Day 73 – 0.21 ft/day
      - Carbon dioxide increase – 59 to 120 mg/L
      - Methane increase – 19 to 35 µg/L

- Injection Well 2 – Screened between 40 to 90 feet.
  - Terminates two feet above lower clayey gravel.
- Monitor Well 12 – Screened between 45 and 65 feet.
  - Terminates in sand unit.
  - Located 36 feet from the injection well.
    - Day 73 0.49 ft/day
      - Total iron increase – 0.6 to 1.3 mg/L
      - Sulfide detected – 0.05 mg/L
    - Day 131 – 0.27 ft/day
      - Initial ORP response - +159 mV
    - Day 158 - 0.23 ft/day
      - ORP is negative - -49 mV
- Monitor Well 12M – Screened between 80 and 90 feet.
  - Terminates in sand unit.
  - Located 38 feet from the injection well.
    - Day 38 – 1.0 ft/day
      - Initial weak ORP response - +122 mV
    - Day 73 – 0.52 ft/day
      - Hexavalent Chromium decline – 1.4 to 0.28 mg/L
      - Manganese detected – 0.58 mg/L
      - Sulfide detected – 0.07 mg/L

- Day 103 – 0.37 ft/day
  - Hexavalent Chromium ND
  - Total chromium ND
  - Manganese spike – 4.61 mg/L
  - Alkalinity spike – 146 to 414 mg/L
  - Sulfide spike - 37 mg/L
  - TOC increase – 160 mg/L
  - Carbon dioxide – 20mg/L
  - Methane increase – 8.0 µg/L
- Day 131 – 0.29 ft/day
  - Deep ORP response - -357 mV
  - Alkalinity doubles from Day 103 – 950 mg/L
  - Sulfate declines - 200 mg/L
  - Sulfide triples - 30 mg/L
  - Nitrate gone
  - TOC doubles - 340 mg/L
  - Carbon dioxide triples - 57 mg/L
  - Methane increase - 14 µg/L

- Monitor Well 12A – Screened between 106.1 and 113.6 ft
  - Terminates in Triassic redbed.
  - Located 28 feet from the injection well.
    - Day 38 – 0.74 ft/day
      - Initial ORP response - +28 mV
      - Sulfide detected – 0.08 mg/L
    - Day 131 – 0.21 ft/day
      - ORP is negative - -139 mV
- Recovery Well 3 – Screened between 45 and 65 feet.
  - Terminates in sand unit.
  - Located 15 feet from the injection well.
    - Day 74 – 0.20 ft/day
      - Total iron detected – 0.6 mg/L
    - Day 107 – 0.14 ft/day
      - Initial ORP response - +128 mV
      - Sulfide detected – 0.06 mg/L
    - Day 159 – 0.094 ft/day
      - ORP is negative - -74 mV

- Injection Well is Recovery Well 004A – Screened between 95 and 115 feet.
  - Terminates in Triassic redbed.
- Monitor Well 8 – Screened between 46.6 and 66.1 feet
  - Terminates in sand unit.
  - Located 28 feet from the injection well.
    - Day 37 – 0.76 ft/day
      - Start of ORP response - +51 mV
      - Manganese detected - 0.02 mg/L

- Day 67 - ft/day
  - Deep ORP Response -220 mV
  - Total iron detected – 0.94 mg/L
- Day 101 – 0.28 ft/day
  - Alkalinity increase – 219 to 393 mg/L
  - Carbon dioxide increase – 14 to 96 mg/L
  - Methane increase – 18 µg/L
- Day 138 – 0.20 ft/day
  - More carbon dioxide – 140 mg/L

- Monitor Well 8M – Screened between 75 to 85 feet
  - Terminates in sand unit.
  - Located 24 feet from the injection well.
    - Day 37 – 0.65 ft/day
      - Alkalinity increase – 137 to 409 mg/L
      - TOC increase – 4 to 40 mg/L
      - Carbon dioxide increase – 11 to 62 mg/L
      - Methane increase – 7.4 to 17 µg/L
      - Manganese detected – 0.91 mg/L
      - Sulfide detected – 0.05 mg/L
    - Day 67 – 0.36 ft/day
      - Deep ORP response - -243 mV
      - Sulfate decrease – 1800 to 1000 mg/L
      - Nitrate gone
      - Alkalinity spike – 1100 mg/L
      - Carbon dioxide spike – 300 mg/L
      - Sulfide increase – 10 mg/L
      - More methane increase – 32 µg/L
      - Hexavalent chromium to ND
      - Manganese spike – 5.05 mg/L
      - Total and ferrous iron spike – 6.71 and 5.23 mg/L respectively
    - Day 138 – 0.17 ft/day
      - Sulfate decline – 1000 to 400 mg/L
      - Sulfide increase – 10 to 24 mg/L
      - TOC triples – 900 mg/L

- Monitor Well 8A – Screened between 105.5 and 113.4 feet
  - Terminates in Triassic redbed.
  - Located 16 feet from the injection well.
    - Day 37 – 0.43 ft/day
      - Deep ORP response - -150 mV
      - Alkalinity increase – 132 to 299 mg/L
      - Sulfide increase – 0.13 mg/L
      - Carbon dioxide increase – 10 to 61 mg/L
      - Manganese detected – 0.11 mg/L
      - Total iron increase – 3.4 mg/L
    - Day 138 – 0.12 ft/day
      - Carbon dioxide spike – 270 mg/L
      - Methane spike – 38 µg/L

Summary of Parameters Demonstrating IRZ Influence

Distal Array IRZ Pilot Program

Injection into the Deep Zone

Chronological Listing of IRZ Effects, Listed By Injection Well that Includes Various Injection Intervals and Monitor Wells Screened at Various Intervals and Located at Various Distances from the Injection Point

- IW-16
  - Monitor Well 067SA – 165 Feet
    - No response to date
  - Monitor Well 079SA – 10 Feet
    - Day 7 – 1.42 ft/day
      - Deep ORP response - -434 mV
      - pH lower – 5.64
    - Day 34 – 0.29 ft/day
      - Iron response – 7.6 mg/L
    - Day 48 – 0.21 ft/day
      - All chromium ND
      - Sulfide increase – 5 mg/L
      - TOC increase – 50 mg/L
      - Carbon dioxide increase – 270 mg/L
    - Day 82 – 0.12 ft/day
      - TOC spike - 4900 mg/L
      - Alkalinity spike – 2280 mg/L
      - Nitrate gone
      - Manganese spike – 17 mg/L
      - Calcium spike - 2050 mg/L
      - Magnesium and potassium spike – 275 and 585 mg/L respectively
      - Ferrous and total iron spike – 77 and 66 mg/L respectively
      - Carbon dioxide increase by 4 fold – 1100 mg/L
      - Methane spike - 2.7 mg/L (not µg/L)
  - Monitor Well 080SA – 15 Feet
    - Day 34 – 0.44 ft/day
      - Initial ORP response - +149 mV
    - Day 62
      - ORP negative - -41 mV
    - Day 82 – 0.24 ft/day
      - Manganese spike – 12 mg/L
      - Hexavalent Chrome ND
      - Total and dissolved iron spike – 21 and 22 mg/L respectively
      - Alkalinity, chloride, and TOC spike – 1400, 1400, 310 mg/L respectively
    - Day 179 – 0.084 ft/day
      - pH lower – 6.22

- Monitor Well 081SA – 22 Feet
  - Day 34 – 0.65 ft/day
    - pH lower – 5.77
  - Day 48 – 0.46 ft/day
    - Hexavalent chromium ND
    - Calcium spike – 792 mg/L
    - Manganese spike – 12.2 mg/L
    - Mg, K, sulfide and all iron spike - 255, 138, 12, and 11/24/27 respectively (ferrous, total, dissolved)
    - Alkalinity spike - 1660
    - TOC spike - 1100
    - Carbon dioxide spike - 1100
  - Day 62 0.35 ft/day
    - ORP response - -213 mV
  - Day 82 – 0.27 ft/day
    - Methane increase – 360 µg/L
  - Day 109 – 0.20 ft/day
    - Iron response - 35.5 mg/L
  - Day 123 – 0.18 ft/day
    - Calcium increases 2 fold – 1510 mg/L
    - Another Mg, and K spike (2 X previous) – 452 and132 mg/L respectively
    - Sulfate declines - 100 mg/L
    - Nitrate gone
    - Methane increase - 3.7 mg/L (not µg/L 10 fold)

- IW-14
  - Monitor Well 064SA – 42 Feet
    - Day 37 – 1.14 ft/day
      - Sulfide detected – 0.05 mg/L
      - Chloride spike – 1200 to 2300 mg/L
    - Day 52 – 0.81 ft/day
      - Hexavalent chromium decline – 0.29 to 0.106 mg/L
      - Total iron increase – 1.3 mg/L
      - Manganese detected – 0.12 mg/L
    - Day 115 – 0.37 ft/day
      - Initial ORP response - +46 mV
    - Day 123 – 0.34 ft/day
      - ORP is negative - -15 mV
  - Monitor Well 082SA – 10 Feet
    - Day 41 – 0.24 ft/day
      - ORP deeply negative - -383 mV
      - pH response – 4.37
      - Iron response – 15 mg/L

- Day 53 – 0.19 ft/day
  - TOC spike – 8 to 4000 mg/L
  - Carbon dioxide increase – 13 to 960 mg/L
  - Nitrate gone
  - All chrome ND
  - Ca, Mg, Mn, all iron spike – 1528, 361, 9.12 and 30/13/9 (ferrous, total, dissolved iron) respectively
- Day 96 – 0.10 ft/day
  - Alkalinity increase – 1250 mg/L
  - Chloride increase – 1300 to 1600 mg/L
  - Sulfate increase – 730 to 900 mg/L
  - Sulfide detected – 1 mg/L
  - More TOC increase (triple) - 14,000 mg/L
  - Mn increase (triple) -- 30.5 mg/L
  - Mg increase – 545 mg/L
  - K increase – 719 mg/L
  - Ca increase - 2010 mg/L
- Day 129 – 0.078 ft/day
  - Carbon dioxide increase by 50% - 1400 mg/L
  - Alkalinity increase by 40% - 2000 mg/L
  - Chloride and sulfate increase – 1200 to 1950 mg/L and 730 to 1000 mg/L respectively
  - All iron increase (triple) – 170/154/97.4 (ferrous/total/dissolved)

- Monitor Well 083SA – 15 Feet
  - Day 41 – 0.37 ft/day
    - ORP deeply negative - -436 mV
    - pH response - 5.67
  - Day 53 - 0.28 ft/day
    - Iron response – 14 mg/L
    - Alkalinity increase – 577 mg/L
    - Hexavalent chromium ND
    - Nitrate gone
    - TOC spike – 1500 mg/L
    - Carbon dioxide spike – 710 mg/L
    - Mn, Mg, Ca, all iron spike – 515, 207, 548 and 20/17/15.7 mg/L respectively

- Day 97 – 0.15 ft/day
  - Alkalinity doubles – 1370 mg/L
  - Sulfide detected -
  - TOC increases order of magnitude – 15900 mg/L
  - Carbon dioxide doubles – 1200 mg/L
  - Mn, Ca, triple – 31.6 and 3120 mg/L respectively
  - Mg, K, and all iron double – 708, 21 and 47/40/3.2 mg/L respectively
- Day 129 – 0.12 ft/day
  - Alkalinity increases 80% - 2200 mg/L
  - Chloride doubles 1940 mg/L
  - Sulfate increases 10% - 900 mg/L
  - Methane increases 5 fold – 9.9 µg/L
  - K has 4 fold increase – 89 mg/L
  - Ferrous iron doubles – 110 mg/L
  - Total iron 7 fold increase – 299 mg/L
  - Dissolved iron 20 fold increase – 77 mg/L

- Monitor Well 084SA – 101 Feet
  - Day 97 – 1.04 ft/day
    - Chloride doubles – 1100 to 2800 mg/L
    - Sulfide detected – 0.06 mg/L
  - Day 115 – 0.84 ft/day
    - Initial ORP response - +53 mV
  - Day 164 – 0.62 ft/day
    - Iron response – 3.4 mg/L
- Monitor Well 085SA – 23 Feet
  - Day 41 – 0.56 ft/day
    - ORP negative - -18 mV
  - Day 111 – 0.21 ft/day
    - Iron response – 0.8 mg/L
  - Day 129 – 0.18 ft/day
    - Sulfide detected – 0.06 mg/L

Appendix B

Well Logs

WELL LOG

WELL NO. IW001

ARCADIS 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0006
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Groundwater Investigation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water/Mud
SAMPLE METHOD: Shovel
DATE BEGUN: 7/24/02 DATE COMPLETED: 7/24/02
DRILLER: S. Scarborough ELEVATION (SURF.): 3,429.47'
LOGGER: L. Markham ELEVATION (T.O.C.): 3,431.91'
FILE NAME: IW001.dat UNIQUE NUMBER: 31-014-00427

STATIC WATER LEVEL: -53.19' MEAS. PT.: T.O.C. DATE: 8/1/02
HOLE SIZE(S): 8" TOTAL DEPTH: -95.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement w/5% Bentonite	-32.0' to Surface
SEAL TYPE:	Bentonite Chips	-35.0' to -32.0'
SCREEN PACK:	8/16 Sand	-90.0' to -35.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-40.0' to 2.0'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-90.0' to -40.0'
PLUG BACK:	Bentonite	-95.0' to -90.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									CLAYEY SAND 5 YR 5/6 yellowish red, 60% fine-grained to medium-grained SAND, loose.	
-5		Shovel								
-10		Shovel							CALICHE 7.5 YR 8/3 pink, 30-40% very fine-grained to fine-grained SAND, soft to friable.	
-15		Shovel								
-20		Shovel								
-25		Shovel							SANDSTONE 7.5 YR 4/6 strong brown and 7.5 YR 6/4 light brown, fine-grained to medium-grained, soft to firm interbedded layers.	
-30		Shovel								
-35		Shovel								
-40		Shovel								
-45		Shovel								

WELL LOG

WELL NO.
IW001

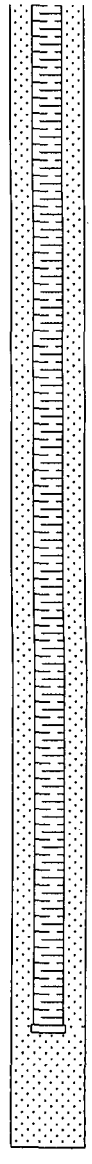
ARCADIS
1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0006
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Groundwater Investigation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water/Mud
SAMPLE METHOD: Shovel
DATE BEGUN: 7/24/02 DATE COMPLETED: 7/24/02
DRILLER: S. Scarborough ELEVATION (SURF.): 3,429.47'
LOGGER: L. Markham ELEVATION (T.O.C.): 3,431.91'
FILE NAME: IW001.dat UNIQUE NUMBER: 31-014-00427

STATIC WATER LEVEL: -53.19' MEAS. PT.: T.O.C. DATE: 8/1/02
HOLE SIZE(S): 8" TOTAL DEPTH: -95.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement w/5% Bentonite	-32.0' to Surface
SEAL TYPE:	Bentonite Chips	-35.0' to -32.0'
SCREEN PACK:	8/16 Sand	-90.0' to -35.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-40.0' to 2.0'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-90.0' to -40.0'
PLUG BACK:	Bentonite	-95.0' to -90.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-50		Shovel								
		Shovel								
		Shovel								
-55		Shovel								
		Shovel								
		Shovel								
-60		Shovel								
		Shovel								
		Shovel								
-65		Shovel								
		Shovel								
		Shovel								
-70		Shovel								
		Shovel								
		Shovel								
-75		Shovel								
		Shovel								
		Shovel								
-80		Shovel								
		Shovel								
		Shovel								
-85		Shovel								
		Shovel								
		Shovel								
-90		Shovel							SANDY CLAY 5 YR 6/6 reddish yellow, 30-40% fine-grained to medium-grained SAND, elastic.	
		Shovel								
-95		Shovel								



WELL LOG

WELL NO.
IW002

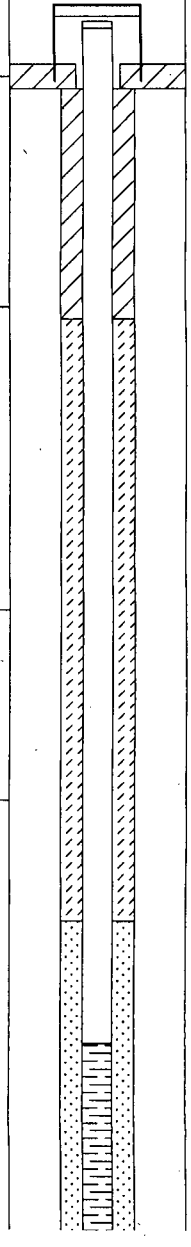
ARCADIS
1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0006
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Groundwater Investigation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 9/09/02 DATE COMPLETED: 9/09/02
DRILLER: S. Scarborough ELEVATION (SURF.): 3,427.78'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,430.33'
FILE NAME: IW002.dat UNIQUE NUMBER: 31-014-00426

STATIC WATER LEVEL: -51.09' MEAS. PT.: T.O.C. DATE: 9/19/02
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -90.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-10.0' to Surface
SEAL TYPE:	Bentonite	-35.0' to -10.0'
SCREEN PACK:	8/16 Sand	-90.0' to -35.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-40.0' to 2.0'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-90.0' to -40.0'
PLUG BACK:	8/16 Sand	-96.0' to -90.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									SAND 10 R 5/6 red, fine-grained to very fine-grained, subangular to subrounded, well sorted, loose, dry, frosted, argilaceous, blow sand.	
-5		Shovel								
-10		Shovel							CALICHE 7.5 YR 8/4 pink, firm to soft.	
-15		Shovel								
-20		Shovel							SANDSTONE 10 R 6/6 light red, subrounded, fine-grained to very fine-grained, well sorted, firm, dry, argillaceous cement, some poorly cemented, rare CALICHE interbeds.	
-25		Shovel								
-30		Shovel							SAND 10 R 6/6 light red, subrounded, fine-grained to very fine-grained, well sorted, loose to well cemented, argillaceous cement.	
-35		Shovel								
-40		Shovel								
-45		Shovel								



WELL LOG

WELL NO.
IW002

ARCADIS
1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0006
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Groundwater Investigation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 9/09/02 DATE COMPLETED: 9/09/02
DRILLER: S. Scarborough ELEVATION (SURF.): 3,427.78'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,430.33'
FILE NAME: IW002.dat UNIQUE NUMBER: 31-014-00426

STATIC WATER LEVEL: -51.09' MEAS. PT.: T.O.C. DATE: 9/19/02
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -90.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-10.0' to Surface
SEAL TYPE:	Bentonite	-35.0' to -10.0'
SCREEN PACK:	8/16 Sand	-90.0' to -35.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-40.0' to 2.0'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-90.0' to -40.0'
PLUG BACK:	8/16 Sand	-96.0' to -90.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-50		Shovel								
-55		Shovel								
-60		Shovel								
-65		Shovel								
-70		Shovel								
-75										
-80										
-85									SAND 10 R 6/6 light red, subrounded, fine-grained to very fine-grained, well sorted, loose, some rare CHERT.	
-90		Shovel								
-95		Shovel							GRAVEL GLEY 2 8/1 light bluish gray, CHERT GRAVEL to .75 cm.	
		Shovel								

WELL LOG

WELL NO.
IW003

ARCADIS 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water/Mud
SAMPLE METHOD: Shovel
DATE BEGUN: 12/2/03 DATE COMPLETED: 12/2/03
DRILLER: S. Scarborough ELEVATION (SURF.): 3,404.63'
LOGGER: L. Markham ELEVATION (T.O.C.): 3,406.68'
FILE NAME: IW003.dat UNIQUE NUMBER: 31-014-00632

STATIC WATER LEVEL: -45.47' MEAS. PT.: T.O.C. DATE: 12/16/03
HOLE SIZE(S): 8" TOTAL DEPTH: -55.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement w/5% Bent.	-25.0' to Surface
SEAL TYPE:	Bentonite Chips	-30.0' to -25.0'
SCREEN PACK:	8/16 Sand	-55.0' to -30.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-35.0' to 2.05'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-55.0' to -35.0'
PLUG BACK:	8/16 Sand	—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									SAND 5YR 4/6 yellowish red, very fine grained to fine grained SAND, *loose*.	
-5		Shovel								
-10		Shovel								
-15		Shovel							CALICHE 7.5YR 7/4 pink, 40%-50% fine grained to medium grained SAND, soft to firm.	
-20		Shovel								
-25		Shovel								

WELL LOG

WELL NO. IW003

ARCADIS 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water/Mud
SAMPLE METHOD: Shovel
DATE BEGUN: 12/2/03 DATE COMPLETED: 12/2/03
DRILLER: S. Scarborough ELEVATION (SURF.): 3,404.63'
LOGGER: L. Markham ELEVATION (T.O.C.): 3,406.68'
FILE NAME: IW003.dat UNIQUE NUMBER: 31-014-00632

STATIC WATER LEVEL: -45.47' MEAS. PT.: T.O.C. DATE: 12/16/03
HOLE SIZE(S): 8" TOTAL DEPTH: -55.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement w/5% Bent.	-25.0' to Surface
SEAL TYPE:	Bentonite Chips	-30.0' to -25.0'
SCREEN PACK:	8/16 Sand	-55.0' to -30.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-35.0' to 2.05'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-55.0' to -35.0'
PLUG BACK:	8/16 Sand	—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-30		Shovel							CALICHE 7.5YR 8/3 pink, 30%-40% fine grained to coarse grained SAND, soft to firm, hard at -35.0' to -45.0'.	
-35		Shovel								
-40		Shovel								
-45		Shovel							SANDY GRAVEL 2.5YR 4/4 reddish brown, fine grained to coarse grained SAND, small to medium pebble GRAVEL, subrounded to angular, poorly sorted.	
-50		Shovel							CLAY 2.5YR 4/6 red, 25% GRAVEL small to medium pebble, subrounded to angular, poorly sorted, elastic.	
-55									CLAY 2.5YR 4/6 red, elastic.	

WELL LOG

WELL NO.
IW004

ARCADIS
1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 12/3/03 DATE COMPLETED: 12/3/03
DRILLER: S. Scarborough ELEVATION (SURF.): 3,404.14'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,406.31'
FILE NAME: IW004.dat UNIQUE NUMBER: 31-014-00633

STATIC WATER LEVEL: -45.04' MEAS. PT.: T.O.C. DATE: 12/16/03
HOLE SIZE(S): 8" TOTAL DEPTH: -50.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-25.0' to Surface
SEAL TYPE:	Bentonite Chips	-30.0' to -25.0'
SCREEN PACK:	8/16 Sand	-50.0' to -30.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-35.0' to 2.17'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-50.0' to -35.0'
PLUG BACK:	8/16 Sand	—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									SAND 5YR 4/6 yellowish red, very fine grained to fine grained SAND, well rounded to subangular abundant red stained grains, loose.	
-5		Shovel								
-10		Shovel								
-15		Shovel							SAND 5YR 4/6 yellowish red, very fine grained to fine grained SAND, well rounded to subangular abundant red stained grains, loose, 70%; CALICHE 10R 8/1 white, soft, 30%.	
-20		Shovel								
		Shovel								

WELL LOG

WELL NO. IW004

ARCADIS 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 12/3/03 DATE COMPLETED: 12/3/03
DRILLER: S. Scarborough ELEVATION (SURF.): 3,404.14'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,406.31'
FILE NAME: IW004.dat UNIQUE NUMBER: 31-014-00633

STATIC WATER LEVEL: -45.04' MEAS. PT.: T.O.C. DATE: 12/16/03
HOLE SIZE(S): 8" TOTAL DEPTH: -50.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-25.0' to Surface
SEAL TYPE:	Bentonite Chips	-30.0' to -25.0'
SCREEN PACK:	8/16 Sand	-50.0' to -30.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-35.0' to 2.17'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-50.0' to -35.0'
PLUG BACK:	8/16 Sand	—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-30		Shovel							CALICHE 80% 10R 8/1 white, firm, 20% SAND 5YR 4/6 yellowish red, very fine grained to fine grained, subangular to subrounded, loose.	
-35		Shovel							SANDSTONE 10R 8/3 pink, very fine grained to subangular to subrounded, very hard, 75% SANDSTONE, 25% CHERT.	
-40		Shovel							CLAY 10R 6/3 pale red, very fine grained, subangular to well rounded, soft, rare fine CHERT GRAVEL.	
-45		Shovel							CLAY 10R 5/6 red, soft, sticky.	
-50										

WELL LOG

WELL NO.
IW005

ARCADIS 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 12/4/03 DATE COMPLETED: 12/4/03
DRILLER: S. Scarborough ELEVATION (SURF.): 3,403.53'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,405.36'
FILE NAME: IW005.dat UNIQUE NUMBER: 31-014-00634

STATIC WATER LEVEL: -45.85' MEAS. PT.: T.O.C. DATE: 12/16/03
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -60.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-26.0' to Surface
SEAL TYPE:	Bentonite Chips	-31.0' to -26.0'
SCREEN PACK:	8/16 Sand	-46.0' to -31.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-36.0' to 1.83'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-46.0' to -36.0'
PLUG BACK:	Bentonite	-60.0' to -46.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									SAND 5YR 4/6 yellowish red, very fine grained to fine grained, well rounded to subangular abundant red stained grains, loose, dry.	
-5		Shovel					SM			
-10		Shovel							SAND 5YR 4/6 yellowish red, very fine grained to fine grained, well rounded to subangular abundant red stained grains, loose, dry, 70% SAND, 30% CALICHE 10R 8/1 white, soft.	
-15		Shovel								
-20		Shovel								
-25		Shovel							SAND 5YR 4/6 yellowish red, very fine grained to fine grained, well rounded to subangular abundant red stained grains, loose, dry, 60% SAND, 35% CALICHE 10R 8/1 white, soft, 5% CHERT 10R 8/1 white, as small GRAVEL.	

WELL LOG

WELL NO. IW005

ARCADIS 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 12/4/03 DATE COMPLETED: 12/4/03
DRILLER: S. Scarborough ELEVATION (SURF.): 3,403.53'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,405.36'
FILE NAME: IW005.dat UNIQUE NUMBER: 31-014-00634

STATIC WATER LEVEL: -45.85' MEAS. PT.: T.O.C. DATE: 12/16/03
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -60.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-26.0' to Surface
SEAL TYPE:	Bentonite Chips	-31.0' to -26.0'
SCREEN PACK:	8/16 Sand	-46.0' to -31.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-36.0' to 1.83'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-46.0' to -36.0'
PLUG BACK:	Bentonite	-60.0' to -46.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-30										
		Shovel							SANDSTONE 70%, 7.5YR 8/2 pinkish white, very fine grained, well sorted, very hard, calcareous, 30% SANDSTONE 2.5YR 6/8 light red, fine grained, well rounded, well sorted, very hard SILICEOUS, red SANDSTONE, facies increasing with depth to 60%.	
-35										
		Shovel								
-40									GRAVEL 7.5YR 5/6 strong brown, fine CHERT and LITHIC GRAVEL, well rounded, poorly sorted to 5mm.	
		Shovel							CLAY 10R 4/6 red, soft, sticky.	
-45										
		Shovel							CLAY 10R 4/6 red, soft, sticky, to blocky 90%, CLAY GLEY1 6/2 pale green 10%, soft blocky as interbeds.	
		Shovel								
-50										
		Shovel								
		Shovel								
-55										
		Shovel								
		Shovel								
-60										

WELL LOG

WELL NO.
IW006

ARCADIS
1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 12/11/03 DATE COMPLETED: 12/11/03
DRILLER: S. Scarborough ELEVATION (SURF.): 3,402.39'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,404.36'
FILE NAME: IW006.dat UNIQUE NUMBER: 31-014-00635

STATIC WATER LEVEL: -45.14' MEAS. PT.: T.O.C. DATE: 12/16/03
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -50.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-25.0' to Surface
SEAL TYPE:	Bentonite Chips	-30.0' to -25.0'
SCREEN PACK:	8/16 Sand	-50.0' to -30.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-35.0' to 1.97'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-50.0' to -35.0'
PLUG BACK:	8/16 Sand	—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0										
-5		Shovel					SM		SAND 5YR 5/8 yellowish red, very fine grained to fine grained, well rounded to subangular, red stained grains, loose, dry.	
-10		Shovel								
-15		Shovel							SAND 5YR 5/8 yellowish red, very fine grained to fine grained, well rounded to subangular, red stained grains, loose, dry, 70%; CALICHE 10R 8/1 white, soft, as interbeds, 30%.	
-20		Shovel								
-25		Shovel								

WELL LOG

WELL NO.
IW006

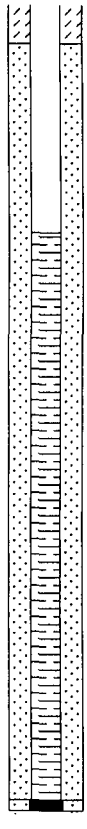
ARCADIS
1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 12/11/03 DATE COMPLETED: 12/11/03
DRILLER: S. Scarborough ELEVATION (SURF.): 3,402.39'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,404.36'
FILE NAME: IW006.dat UNIQUE NUMBER: 31-014-00635

STATIC WATER LEVEL: -45.14' MEAS. PT.: T.O.C. DATE: 12/16/03
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -50.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-25.0' to Surface
SEAL TYPE:	Bentonite Chips	-30.0' to -25.0'
SCREEN PACK:	8/16 Sand	-50.0' to -30.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-35.0' to 1.97'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-50.0' to -35.0'
PLUG BACK:	8/16 Sand	—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-30		Shovel							SANDSTONE 7.5YR 7/4 pink, 75% very fine grained, subrounded, fair sorting, well cemented, very hard, calcareous and siliceous.	
-35		Shovel							SANDSTONE 75% 10R 5/8 red, fine grained SAND to SILT, subrounded, fair sorting, well cemented, siliceous cement, very hard, 25% SANDSTONE 7.5YR 7/4 pink, 75% very fine grained, subrounded, fair sorting, well cemented, very hard, calcareous and siliceous as interbeds.	
-40		Shovel							CLAY 10R 7/6 light red, soft, 90%; 10% CHERT GRAVEL 7.5YR 5/6 strong brown, well rounded to subrounded to 5mm.	
-45									CLAY 10R 5/6 red, soft to finely bedded, some blocky, 95%; 5% CLAY GLEY1 7/2 pale green, soft.	
-50										



WELL LOG

WELL NO.
IW007

ARCADIS
1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 12/5/03 DATE COMPLETED: 12/5/03
DRILLER: S. Scarborough ELEVATION (SURF.): 3,403.46'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,405.31'
FILE NAME: IW007.dat UNIQUE NUMBER: 31-014-00636

STATIC WATER LEVEL: -45.65' MEAS. PT.: T.O.C. DATE: 12/16/03
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -46.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-26.0' to Surface
SEAL TYPE:	Bentonite Chips	-31.0' to -26.0'
SCREEN PACK:	8/16 Sand	-46.0' to -31.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-36.0' to 1.85'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-46.0' to -36.0'
PLUG BACK:	8/16 Sand	—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									SAND 5YR 5/8 yellowish red, very fine grained to fine grained, well rounded to subangular, abundant red stained grains, loose, dry.	
		Shovel					SM			
-5										
		Shovel								
-10										
		Shovel							SAND 5YR 5/8 yellowish red, very fine grained to fine grained, well rounded to subangular, abundant red stained grains, loose, dry, 55%; CALICHE 10R 8/1 white, soft, 45%.	
-15										
		Shovel								
-20										

WELL LOG

WELL NO. IW007

ARCADIS 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 12/5/03 DATE COMPLETED: 12/5/03
DRILLER: S. Scarborough ELEVATION (SURF.): 3,403.46'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,405.31'
FILE NAME: IW007.dat UNIQUE NUMBER: 31-014-00636

STATIC WATER LEVEL: -45.65' MEAS. PT.: T.O.C. DATE: 12/16/03
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -46.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-26.0' to Surface
SEAL TYPE:	Bentonite Chips	-31.0' to -26.0'
SCREEN PACK:	8/16 Sand	-46.0' to -31.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-36.0' to 1.85'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-46.0' to -36.0'
PLUG BACK:	8/16 Sand	—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-25		Shovel								
		Shovel							SANDSTONE 7.5YR 7/4 pink, fine grained, well rounded, fair sorting, very well cemented, calcareous 75%; 20% SANDSTONE 10R 6/6 light red, very fine grained, subrounded, well sorted, very hard siliceous, 5% CHERT, broken fragments 7.5YR 7/4 pink, probably from GRAVEL, red SANDSTONE increases with depth.	
-30									CALICHE 5YR 8/1 white, 70% firm, indurated 30% CHERT GRAVEL 7.5 YR 5/4 brown to 1 cm.	
		Shovel								
-35										
		Shovel								
-40										
		Shovel							CLAY 10R 5/6 red, soft, sticky to blocky.	
-45										

WELL LOG

WELL NO. IW008

ARCADIS 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 12/10/03 DATE COMPLETED: 12/10/03
DRILLER: S. Scarborough ELEVATION (SURF.): 3,403.30'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,405.37'
FILE NAME: IW008.dat UNIQUE NUMBER: 31-014-00637

STATIC WATER LEVEL: -50.61' MEAS. PT.: T.O.C. DATE: 12/16/03
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -50.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-25.0' to Surface
SEAL TYPE:	Bentonite Chips	-30.0' to -25.0'
SCREEN PACK:	8/16 Sand	-50.0' to -30.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-35.0' to 2.07'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-50.0' to -35.0'
PLUG BACK:	8/16 Sand	—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0										
		Shovel					SM		SAND 5YR 5/8 yellowish red, very fine grained to fine grained, well rounded to subangular, abundant red stained grains, loose, dry.	
-5										
		Shovel								
-10										
		Shovel							SAND 5YR 5/8 yellowish red, very fine grained to fine grained, well rounded to subangular, abundant red stained grains, loose, dry, 70%; CALICHE 10R 8/1 white, soft as interbeds, 30%.	
-15										
		Shovel								
-20									CALICHE 10R 8/1 white, soft, 75%; SAND 5YR yellowish red, very fine grained to fine grained, well rounded to subangular, abundant red stained grains, loose, dry, 25%.	
		Shovel								
-25										
		Shovel								

WELL LOG

WELL NO. IW008

ARCADIS 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 12/10/03 DATE COMPLETED: 12/10/03
DRILLER: S. Scarborough ELEVATION (SURF.): 3,403.30'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,405.37'
FILE NAME: IW008.dat UNIQUE NUMBER: 31-014-00637

STATIC WATER LEVEL: -50.61' MEAS. PT.: T.O.C. DATE: 12/16/03
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -50.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-25.0' to Surface
SEAL TYPE:	Bentonite Chips	-30.0' to -25.0'
SCREEN PACK:	8/16 Sand	-50.0' to -30.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-35.0' to 2.07'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-50.0' to -35.0'
PLUG BACK:	8/16 Sand	—

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-30		Shovel							SANDSTONE 7.5YR 7/4 pink, very fine grained, well rounded, fair sorting, very hard, calcareous and siliceous, 70%; 20% SANDSTONE 2.5YR 5/6 red, very fine grained, very hard, siliceous; 5% CHERT fragments.	
-35		Shovel								
-40		Shovel							GRAVEL CHERT 10R 8/1 white, to 5mm 20%; 80% CLAY 10R 6/6 light red, soft as interbeds.	
-45									CLAY 10R 5/8 red, firm, finely bedded, 95%; 5% CLAY GLEY1 7/2 pale pale green.	
-50										

WELL LOG

WELL NO. IW009

ARCADIS 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 12/8/03 DATE COMPLETED: 12/8/03
DRILLER: S. Scarborough ELEVATION (SURF.): 3,404.04'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,406.07'
FILE NAME: IW009.dat UNIQUE NUMBER: 31-014-00638

STATIC WATER LEVEL: -47.22' MEAS. PT.: T.O.C. DATE: 12/16/03
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -55.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-25.0' to Surface
SEAL TYPE:	Bentonite Chips	-30.0' to -25.0'
SCREEN PACK:	8/16 Sand	-45.0' to -30.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-35.0' to 2.03'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-45.0' to -35.0'
PLUG BACK:	Bentonite Chips	-55.0' to -45.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									SAND 5YR 5/6 yellowish red, fine grained to very fine grained, well rounded to subangular, fair sorting, loose.	
		Shovel					SM			
-5										
		Shovel								
-10										
		Shovel								
-15									CALICHE 5YR 8/1 white, soft 60% CALICHE, 40% SANDSTONE 5/6 yellowish.	
		Shovel								
-20										
		Shovel								
-25										
		Shovel								

WELL LOG

WELL NO.
IW009

ARCADIS
1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 12/8/03 DATE COMPLETED: 12/8/03
DRILLER: S. Scarborough ELEVATION (SURF.): 3,404.04'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,406.07'
FILE NAME: IW009.dat UNIQUE NUMBER: 31-014-00638

STATIC WATER LEVEL: -47.22' MEAS. PT.: T.O.C. DATE: 12/16/03
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -55.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-25.0' to Surface
SEAL TYPE:	Bentonite Chips	-30.0' to -25.0'
SCREEN PACK:	8/16 Sand	-45.0' to -30.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-35.0' to 2.03'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-45.0' to -35.0'
PLUG BACK:	Bentonite Chips	-55.0' to -45.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-30										
		Shovel							SANDSTONE 10R 8/6 light red, very fine grained, subrounded, very well cemented, very hard, 50% SANDSTONE; 40% SANDSTONE 10YR 8/3 very pale brown, siliceous, calcareous, very hard, 5% CHERT fragments.	
-35										
		Shovel							GRAVEL 7.5YR 5/4 brown, fine grained, well rounded, CHERT and LITHIC GRAVEL to 4mm, 50% GRAVEL, 50% CLAY 2.5YR 7/6 light red as interbeds.	
-40										
		Shovel								
		Shovel							CLAY 10R 5/6 red, soft, sticky to plastic. NOTE: went to soft formation bit @ -45.0'.	
-45										
		Shovel							CLAY 10R 5/6 red, soft, sticky to plastic, blocky, rare CLAY GLEY1 7/2 pale green, finely bedded.	
		Shovel								
-50										
		Shovel								
		Shovel								
-55										

WELL LOG

WELL NO.
IW010

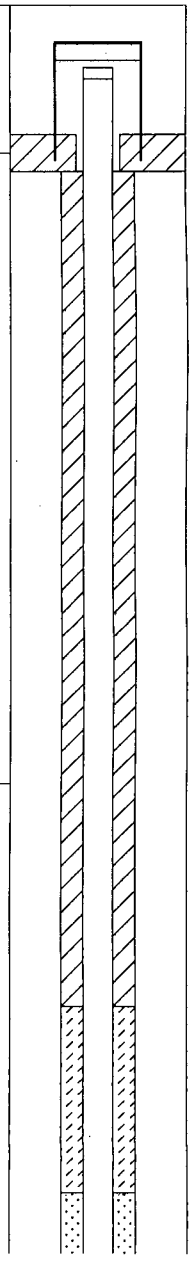
ARCADIS
1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 12/9/03 DATE COMPLETED: 12/9/03
DRILLER: S. Scarborough ELEVATION (SURF.): 3,404.28'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,405.82'
FILE NAME: IW010.dat UNIQUE NUMBER: 31-014-00639

STATIC WATER LEVEL: -52.88' MEAS. PT.: T.O.C. DATE: 12/16/03
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -62.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-23.0' to Surface
SEAL TYPE:	Bentonite Chips	-28.0' to -23.0'
SCREEN PACK:	8/16 Sand	-58.0' to -28.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-33.0' to 1.54'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-58.0' to -33.0'
PLUG BACK:	8/16 Sand	-62.0' to -58.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0										
-5		Shovel					SM		SAND 5YR 5/6 yellowish red, fine grained to very fine grained, well rounded to subangular, fair sorting, loose, dry.	
-10		Shovel								
-15		Shovel								
-20		Shovel							SAND 5YR 5/6 yellowish red, fine grained to very fine grained, well rounded to subangular, fair sorting, loose, dry 75%; CALICHE 10R 8/1 white, soft 25%.	
-25		Shovel								
		Shovel								



WELL LOG

WELL NO. IW010

ARCADIS 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 12/9/03 DATE COMPLETED: 12/9/03
DRILLER: S. Scarborough ELEVATION (SURF.): 3,404.28'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,405.82'
FILE NAME: IW010.dat UNIQUE NUMBER: 31-014-00639

STATIC WATER LEVEL: -52.88' MEAS. PT.: T.O.C. DATE: 12/16/03
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -62.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-23.0' to Surface
SEAL TYPE:	Bentonite Chips	-28.0' to -23.0'
SCREEN PACK:	8/16 Sand	-58.0' to -28.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-33.0' to 1.54'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-58.0' to -33.0'
PLUG BACK:	8/16 Sand	-62.0' to -58.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-30		Shovel								
-35		Shovel							SANDSTONE 10R 8/6 light red, subrounded, firm, CALICHE cement 50%; CLAY 2.5YR 7/6 light red, soft as interbeds, NOTE: -41.0' lost circulation, -45.0' total lost circulation, drilled to -51.0' no returns, drilled to -60.0'.	
-40		Shovel								
		No Return							NO RETURNS ; NOTE: -41.0' lost circulation, -45.0' total lost circulation, drilled to -51.0' no returns, drilled to -60.0'.	
-45		No Return								
-50		No Return								
-55		No Return								
		No Return								
-60		Split Spoon							SHALE 10R 5/6 red, firm, finely bedded 90%; SHALE GLEY1 7/2 pale green as nodules 10%.	

WELL LOG

WELL NO. IW011

ARCADIS 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 8/12/03 DATE COMPLETED: 8/12/03
DRILLER: S. Scarborough ELEVATION (SURF.): 3,404.75'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,406.83'
FILE NAME: IW011.dat UNIQUE NUMBER: 31-014-00640

STATIC WATER LEVEL: -57.60' MEAS. PT.: T.O.C. DATE: 12/16/03
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -73.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-33.0' to Surface
SEAL TYPE:	Bentonite Chips	-38.0' to -33.0'
SCREEN PACK:	8/16 Sand	-63.0' to -38.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-43.0' to 2.08'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-63.0' to -43.0'
PLUG BACK:	Bentonite	-73.0' to -63.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0										
		Shovel					SM		SAND 5YR 5/6 yellowish red, fine grained to very fine grained, well rounded to subangular, fair sorting, loose.	
-5										
		Shovel								
-10										
		Shovel							CALICHE 5YR 8/1white, soft 70% CALICHE, 30% SAND 5YR 5/6 yellowish red, fine grained to very fine grained, well rounded to subangular, fair sorting, loose.	
-15										
		Shovel								
-20										
		Shovel								
-25										
		Shovel								
-30										
		Shovel							CALICHE 5YR 8/1 white, firm 80%; SANDSTONE 20% 10R 8/6 light red, very fine grained to fine grained, subangular, fair sorting, hard, well cemented as thin interbeds.	
-35										

WELL LOG

WELL NO. IW011

ARCADIS 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 8/12/03 DATE COMPLETED: 8/12/03
DRILLER: S. Scarborough ELEVATION (SURF.): 3,404.75'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,406.83'
FILE NAME: IW011.dat UNIQUE NUMBER: 31-014-00640

STATIC WATER LEVEL: -57.60' MEAS. PT.: T.O.C. DATE: 12/16/03
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -73.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-33.0' to Surface
SEAL TYPE:	Bentonite Chips	-38.0' to -33.0'
SCREEN PACK:	8/16 Sand	-63.0' to -38.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-43.0' to 2.08'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-63.0' to -43.0'
PLUG BACK:	Bentonite	-73.0' to -63.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-40		Shovel								
-45		Shovel							CALICHE 5YR 8/1 white, hard, indurated 95%; 5% CHERT GRAVEL 10YR 5/8 brown, hard.	
-50		Shovel								
-55		Shovel							CLAY 10R light red, soft plastic 75%; CLAY 10%; CALICHE 5YR 8/1 white, hard, indurated 15%; GRAVEL 10YR 5/3 brown, CHERT GRAVEL to 1 cm.	
-60		Shovel								
-65		Shovel							CLAY 10R 5/8 red, soft, switched to soft formation bit @ -63.0'.	
-70		Shovel							CLAY 10R 5/8 red soft, blocky 95%; 5% CLAY GLEY1 7/2 pale green, thinly bedded.	
		Shovel								
		Shovel								
		Shovel								
		Shovel								
		Shovel								

WELL LOG

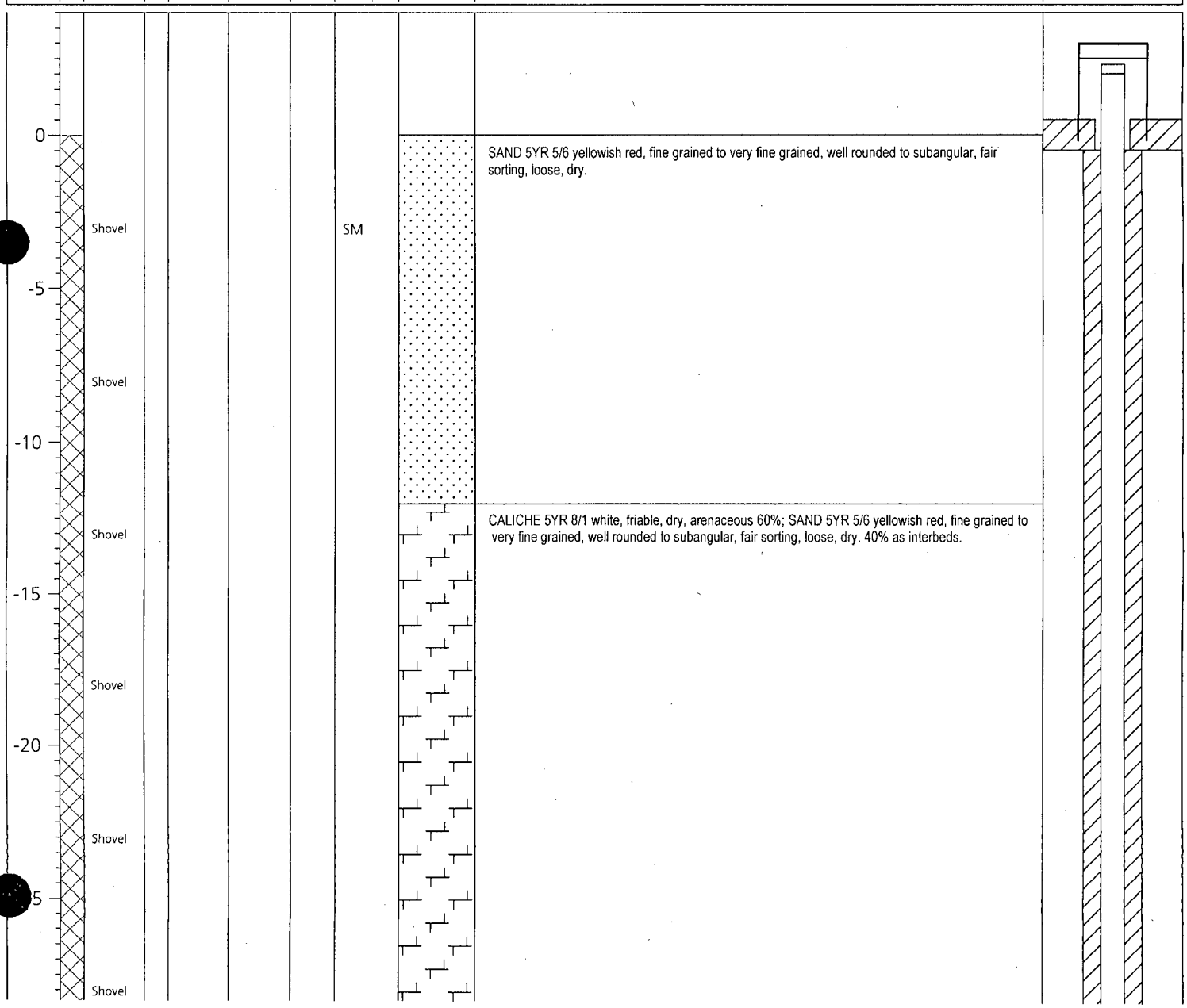
WELL NO. IW012

ARCADIS 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 2/5/04 DATE COMPLETED: 2/5/04
DRILLER: S. Scarborough ELEVATION (SURF.): 3,404.11'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,405.92'
FILE NAME: IW012.dat UNIQUE NUMBER: 31-014-00641

STATIC WATER LEVEL: -54.99' MEAS. PT.: T.O.C. DATE: 2/18/04
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -57.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-33.0' to Surface
SEAL TYPE:	Bentonite Chips	-38.0' to -33.0'
SCREEN PACK:	8/16 Sand	-53.0' to -38.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-43.0' to 1.81'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-53.0' to -43.0'
PLUG BACK:	8/16 Sand	-57.0' to -53.0'



WELL LOG

WELL NO. IW012

ARCADIS 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 2/5/04 DATE COMPLETED: 2/5/04
DRILLER: S. Scarborough ELEVATION (SURF.): 3,404.11'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,405.92'
FILE NAME: IW012.dat UNIQUE NUMBER: 31-014-00641

STATIC WATER LEVEL: -54.99' MEAS. PT.: T.O.C. DATE: 2/18/04
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -57.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-33.0' to Surface
SEAL TYPE:	Bentonite Chips	-38.0' to -33.0'
SCREEN PACK:	8/16 Sand	-53.0' to -38.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-43.0' to 1.81'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-53.0' to -43.0'
PLUG BACK:	8/16 Sand	-57.0' to -53.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-30		Shovel							SAND 2.5YR 8/4 pink 75%, fine grained to very fine grained, subrounded to subangular, well sorted, loose to very soft, some red grains; 25% CALICHE 5YR 8/1 white, very soft, CLAY like as interbeds.	
-35		Shovel								
-40		Shovel								
-45		Shovel								
-50		Shovel								
-55		Shovel							SHALE 10R 5/6 red, firm, fat CLAY, finely bedded to blocky, rare thin interbeds of SHALE GLEY 1 7/5G light greenish gray.	

WELL LOG

WELL NO. IW013

ARCADIS 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 2/6/04 DATE COMPLETED: 2/6/04
DRILLER: S. Scarborough ELEVATION (SURF.): 3,404.39'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,406.62'
FILE NAME: IW013.dat UNIQUE NUMBER: 31-014-00642

STATIC WATER LEVEL: -56.27' MEAS. PT.: T.O.C. DATE: 2/18/04
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -66.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-35.0' to Surface
SEAL TYPE:	Bentonite Chips	-40.0' to -35.0'
SCREEN PACK:	8/16 Sand	-60.0' to -40.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-45.0' to 2.23'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-60.0' to -45.0'
PLUG BACK:	8/16 Sand	-66.0' to -60.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									SAND 2.5YR 6/6 light red, fine grained to very fine grained, well rounded to subangular, fair sorting, loose, dry, argillaceous, some red grains, samples examined dry to -15.0' then wet.	
-5		Shovel					SM			
-10		Shovel								
-15		Shovel								
-20		Shovel								
-25		Shovel							CALICHE 5YR 8/1 white, 60%; SAND 2.5YR 6/6 light red, fine grained to very fine grained, well rounded to subangular, fair sorting, loose, dry, argillaceous, some red grains 40%.	
-30									CALICHE 5YR 7/4 pink, 70% arenaceous; CALICHE 5YR 8/1white, 30% becomes firmer with depth, interbedded.	

WELL LOG

WELL NO.
IW013

ARCADIS 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 2/6/04 DATE COMPLETED: 2/6/04
DRILLER: S. Scarborough ELEVATION (SURF.): 3,404.39'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,406.62'
FILE NAME: IW013.dat UNIQUE NUMBER: 31-014-00642

STATIC WATER LEVEL: -56.27' MEAS. PT.: T.O.C. DATE: 2/18/04
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -66.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-35.0' to Surface
SEAL TYPE:	Bentonite Chips	-40.0' to -35.0'
SCREEN PACK:	8/16 Sand	-60.0' to -40.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-45.0' to 2.23'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-60.0' to -45.0'
PLUG BACK:	8/16 Sand	-66.0' to -60.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-35		Shovel								
-40										
-45		Shovel							SANDSTONE 2.5YR 8/4 pink, fine grained, subangular, fair sorting, hard to firm CALICHE cement, 70%; 30% CALICHE 5YR 8/1 white, hard, indurated, 30%, interbedded.	
-50										
-55		Shovel							SANDSTONE 2.5YR 8/4 pink, fine grained, subangular, fair sorting, soft CALICHE cement, 70%; CALICHE 5YR 8/1 white, hard, 25% CHERT GRAVEL 7.5YR 5/4 brown, fine GRAVEL to 1 cm, well rounded, as interbeds 5%.	
-60									SHALE 10R 5/6 red, blocky fat CLAY, rare, SHALE GLEY 1 7/2 pale green interbeds.	
-65		Shovel								

WELL LOG

WELL NO.
IW014

ARCADIS
1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 2/10/04 DATE COMPLETED: 2/10/04
DRILLER: S. Scarborough ELEVATION (SURF.): 3,403.67'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,405.48'
FILE NAME: IW014.dat UNIQUE NUMBER: 31-014-00643

STATIC WATER LEVEL: -54.55' MEAS. PT.: T.O.C. DATE: 2/18/04
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -77.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-23.0' to Surface
SEAL TYPE:	Bentonite Chips	-28.0' to -23.0'
SCREEN PACK:	8/16 Sand	-73.0' to -28.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-33.0' to 1.81'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-73.0' to -33.0'
PLUG BACK:	8/16 Sand	-77.0' to -73.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									SAND 2.5YR 6/6 light red, fine grained to very fine grained, well rounded to subangular, fair sorting, loose, dry, argillaceous, some red grains.	
-5		Shovel					SM			
-10		Shovel							CALICHE 5YR 8/1 white, firm 70%; 30% SAND 2.5YR 6/6 light red, fine grained to very fine grained, well rounded to subangular, fair sorting, loose, dry, argillaceous, some red grains.	
-15		Shovel								
-20		Shovel							CALICHE 5YR 8/1 white, hard, indurated 70%; 30% SANDSTONE 10R 4/6 red, fine grained to very fine grained, fair sorting, soft to firm, CALICHE cement as interbeds.	
-25		Shovel								
-30		Shovel								
-35										

WELL LOG

WELL NO.
IW014
Page 2 of 2

ARCADIS
1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 2/10/04 DATE COMPLETED: 2/10/04
DRILLER: S. Scarborough ELEVATION (SURF.): 3,403.67'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,405.48'
FILE NAME: IW014.dat UNIQUE NUMBER: 31-014-00643

STATIC WATER LEVEL: -54.55' MEAS. PT.: T.O.C. DATE: 2/18/04
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -77.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-23.0' to Surface
SEAL TYPE:	Bentonite Chips	-28.0' to -23.0'
SCREEN PACK:	8/16 Sand	-73.0' to -28.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-33.0' to 1.81'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-73.0' to -33.0'
PLUG BACK:	8/16 Sand	-77.0' to -73.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-40		Shovel								
		Shovel								
-45									SANDSTONE 10R 8/4 pink, 75% very fine grained, subangular to subrounded, poorly sorted, soft CALICHE cement, some indurated and hard, 25% CALICHE 2.5YR 8/1 white, hard as interbeds.	
		Shovel								
-50										
		Shovel								
-55										
		Shovel								
-60									SANDSTONE 10R 8/4 pink, 60% very fine grained, subangular to subrounded, poorly sorted, soft CALICHE cement, some indurated and hard; 30% SANDSTONE GLEY 1 7/5 light greenish gray, very fine grained, subrounded to subangular, fair sorting, soft, CALICHE cement; 8% CALICHE 2.5YR 8/1 white, hard; 2% GRAVEL 7.5YR 5/4 brown, fine CHERT, GRAVEL to 4mm, well rounded, poorly sorted, loose.	
		Shovel								
-65										
		Shovel								
-70										
		Shovel								
-75									SHALE 10R 4/8 red, blocky fat CLAY, rare SHALE GLEY 1 7/7 light greenish gray as interbeds.	
		Shovel								

WELL LOG

WELL NO. IW015

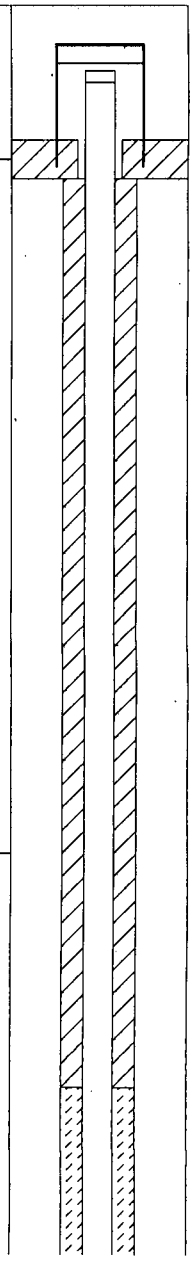
ARCADIS 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 2/10/04 DATE COMPLETED: 2/10/04
DRILLER: S. Scarborough ELEVATION (SURF.): 3,404.05'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,406.05'
FILE NAME: IW015.dat UNIQUE NUMBER: 31-014-00644

STATIC WATER LEVEL: -45.43' MEAS. PT.: T.O.C. DATE: 2/18/04
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -54.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-24.0' to Surface
SEAL TYPE:	Bentonite Chips	-29.0' to -24.0'
SCREEN PACK:	8/16 Sand	-49.0' to -29.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-34.0' to 2.0'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-49.0' to -34.0'
PLUG BACK:	8/16 Sand	-54.0' to -49.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									SAND 5YR 5/6 yellowish red, fine grained to very fine grained, well rounded to subangular, fair sorting, loose, dry.	
-5		Shovel					SM			
-10		Shovel								
-15		Shovel								
-20		Shovel							CALICHE 5YR 8/1 white, soft 70%; 30% SAND 5YR 5/6 yellowish red, fine grained to very fine grained, well rounded to subangular, fair sorting, loose, dry, interbedded.	
-25		Shovel								



WELL LOG

WELL NO. IW015

ARCADIS 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 2/10/04 DATE COMPLETED: 2/10/04
DRILLER: S. Scarborough ELEVATION (SURF.): 3,404.05'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,406.05'
FILE NAME: IW015.dat UNIQUE NUMBER: 31-014-00644

STATIC WATER LEVEL: -45.43' MEAS. PT.: T.O.C. DATE: 2/18/04
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -54.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-24.0' to Surface
SEAL TYPE:	Bentonite Chips	-29.0' to -24.0'
SCREEN PACK:	8/16 Sand	-49.0' to -29.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-34.0' to 2.0'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-49.0' to -34.0'
PLUG BACK:	8/16 Sand	-54.0' to -49.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-30		Shovel							CALICHE 10R 6/6 light red, hard, indurated, arenaceous 80%; 15% SANDSTONE 2.5YR 4/6 red, very fine grained SILT to very fine grained, subangular to subrounded, poorly sorted, hard, CALICHE cement; 5% CALICHE 5YR 8/1 white, hard, interbedded.	
-35		Shovel								
-40		Shovel							CALICHE 10R 8/1 white, very hard, indurated.	
-45		Shovel							CLAY 10R 6/6 light red, soft, arenaceous 60%; 40% GRAVEL 7.5YR 5/4 brown, CHERT and LITHIC GRAVEL to 1cm, well rounded, poorly sorted, loose, interbedded.	
-50		Shovel							SHALE 10R 5/8 red, firm blocky, rare interbeds of CLAY GLEY 7/2 5G pale green.	
-55										

WELL LOG

WELL NO.
IW016

ARCADIS
1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 2/9/04 DATE COMPLETED: 2/9/04
DRILLER: S. Scarborough ELEVATION (SURF.): 3,406.20'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,408.29'
FILE NAME: IW016.dat UNIQUE NUMBER: 31-014-00645

STATIC WATER LEVEL: -48.16' MEAS. PT.: T.O.C. DATE: 2/18/04
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -74.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-19.0' to Surface
SEAL TYPE:	Bentonite Chips	-24.0' to -19.0'
SCREEN PACK:	8/16 Sand	-69.0' to -24.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-29.0' to 2.09'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-69.0' to -29.0'
PLUG BACK:	8/16 Sand	-74.0' to -69.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0										
		Shovel					SM		SAND 5YR 5/6 yellowish red, fine grained to very fine grained, well rounded to subangular, fair sorting, loose, dry.	
-5										
		Shovel								
-10										
		Shovel								
-15										
		Shovel								
-20									CALICHE 5YR 8/1 white, friable 70%; 30% 5YR 5/6 yellowish red, fine grained to very fine grained, well rounded to subangular, fair sorting, loose, dry, CALICHE becomes indurated with depth.	
		Shovel								
-25										
		Shovel								
-30										
		Shovel								
-35									SANDSTONE 10R 8/3 pink 75% very fine grained, subangular, poorly sorted, soft, CALICHE cement; 23% CALICHE 5YR 8/1 white, hard; 2% SANDSTONE 10R 4/6 red, very fine grained, very hard siliceous cement.	

WELL LOG

WELL NO.
IW016

ARCADIS
1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0010
CLIENT NAME: ChevronTexaco Exploration & Production Co.
PROJECT NAME: North Eunice Gas Plant - IRZ Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Water
SAMPLE METHOD: Shovel
DATE BEGUN: 2/9/04 DATE COMPLETED: 2/9/04
DRILLER: S. Scarborough ELEVATION (SURF.): 3,406.20'
LOGGER: R. Lang ELEVATION (T.O.C.): 3,408.29'
FILE NAME: IW016.dat UNIQUE NUMBER: 31-014-00645

STATIC WATER LEVEL: -48.16' MEAS. PT.: T.O.C. DATE: 2/18/04
HOLE SIZE(S): 7 7/8" TOTAL DEPTH: -74.0'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 4'x4'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Portland Cement	-19.0' to Surface
SEAL TYPE:	Bentonite Chips	-24.0' to -19.0'
SCREEN PACK:	8/16 Sand	-69.0' to -24.0'
CASING TYPE:	4" Diameter Sch. 40 PVC Blank	-29.0' to 2.09'
	—	—
WELL SCREEN:	4" Diameter Sch. 40 PVC, 0.020" slots	-69.0' to -29.0'
PLUG BACK:	8/16 Sand	-74.0' to -69.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-40		Shovel								
-45		Shovel								
-50		Shovel								
-55		Shovel							CLAY 10R 8/3 pink 70% soft, GRAVEL 30% 7.5YR 5/4 brown, fine CHERT GRAVEL to 1.5 cm, well rounded, poorly sorted, CHERT and LITHIC GRAVEL, loose, uncemented, interbedded.	
-60		Shovel								
-65		Shovel								
-70		Shovel							SHALE 10R 5/8 red, firm blocky, some fine bedded rare, CLAY GLEY 1 7/2 pale green as interbeds.	
-75										

WELL LOG

WELL NO.
RW004A

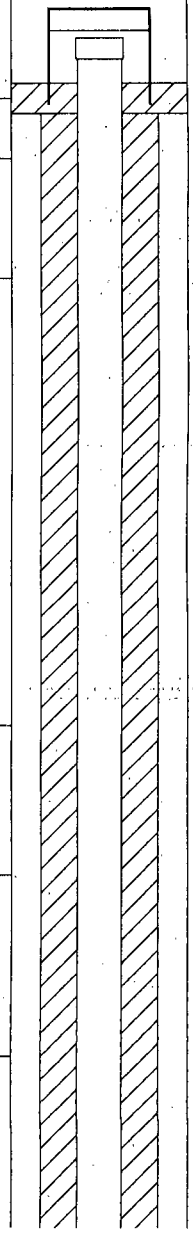
ARCADIS
1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0001
CLIENT NAME: ChevronTexaco North America Upstream
PROJECT NAME: North Eunice Plant Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Mud/Water
SAMPLE METHOD: Shovel/Split Spoon
DATE BEGUN: 8/23/01 DATE COMPLETED: 8/23/01
DRILLER: S. Scarborough ELEVATION (SURF.): 3,427.76'
LOGGER: L. Markham ELEVATION (T.O.C.): 3,430.11'
FILE NAME: RW004A.dat UNIQUE NUMBER: 31-014-00262

STATIC WATER LEVEL: -51.59' MEAS. PT.: T.O.C. DATE: 8/23/01
HOLE SIZE(S): 10" TOTAL DEPTH: -115.5'
SURFACE COMPLETION: 8" Locking Steel Sleeve, 3'x3'x6" Conc. Slab

	TYPES	DEPTHS
GROUT TYPE:	Cement w/5% Bentonite	-80.0' to Surface
SEAL TYPE:	Bentonite Chips	-90.0' to -80.0'
SCREEN PACK:	8/16 Sand	-115.0' to -90.0'
CASING TYPE:	6" Diameter Sch. 40 PVC Blank	-95.0' to 2.0'
	—	—
WELL SCREEN:	6" Diameter Sch. 40 PVC, 0.020" slots	-115.0' to -95.0'
PLUG BACK:	—	-115.5' to -115.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
0									SILTY SAND 7.5 YR 5/6 strong brown, 70% SAND, very fine-grained to fine-grained, 30% SILT.	
		Shovel							CLAY 7.5 YR 5/6 strong brown, 60% CLAY, 30% SAND, fine-grained, 10% CALICHE.	
-5		Split Spoon			1.0					
		Shovel							CALICHE 7.5 YR 8/2 pinkish white, 70% CALICHE, 30% SAND, very fine-grained to fine-grained, soft to firm.	
-10		Split Spoon			0.75					
		Shovel								
-15		Split Spoon			0.75					
		Shovel								
-20		Split Spoon			0.75					
		Shovel							SAND 7.5 YR 7/4 pink, 60% SAND, very fine-grained to fine-grained, 40% CALICHE, soft to firm.	
-25		Split Spoon			0.75					
		Shovel							SANDSTONE 7.5 YR 6/4 light brown, fine-grained to medium-grained, interbedded darker SANDSTONE, soft to firm.	
-30		Split Spoon			0.75					
									SANDSTONE 7.5 YR 6/4 mottled strong brown and light brown, fine-grained to medium-grained, interbedded darker SANDSTONE, soft to firm.	
-35		Shovel								



WELL LOG

WELL NO. RW004A

ARCADIS 1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432/687-5400 Fax: 432/687-5401

PROJECT NUMBER: MT000700.0001
CLIENT NAME: ChevronTexaco North America Upstream
PROJECT NAME: North Eunice Plant Remediation
SITE LOCATION: Eunice, New Mexico
Lea County, New Mexico
DRILLING CO: Scarborough Drilling Co.
DRILLING METHOD: Rotary/Mud/Water
SAMPLE METHOD: Shovel/Split Spoon
DATE BEGUN: 8/23/01 DATE COMPLETED: 8/23/01
DRILLER: S. Scarborough ELEVATION (SURF.): 3,427.76'
LOGGER: L. Markham ELEVATION (T.O.C.): 3,430.11'
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	TYPES	DEPTHS
GROUT TYPE:	Cement w/5% Bentonite	-80.0' to Surface
SEAL TYPE:	Bentonite Chips	-90.0' to -80.0'
SCREEN PACK:	8/16 Sand	-115.0' to -90.0'
CASING TYPE:	6" Diameter Sch. 40 PVC Blank	-95.0' to 2.0'
	—	—
WELL SCREEN:	6" Diameter Sch. 40 PVC, 0.020" slots	-115.0' to -95.0'
PLUG BACK:	—	-115.5' to -115.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-40		Split Spoon			0.75				SANDSTONE 7.5 YR 6/4 90% strong brown 10% light brown mottled, fine-grained to medium-grained, interbedded darker SANDSTONE, soft to firm.	
-45		Shovel								
-50		Split Spoon			0.5					
-55										
-60										
-65										
-70										

WELL LOG

WELL NO. RW004A

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WELL SCREEN:	6" Diameter Sch. 40 PVC, 0.020" slots	-115.0' to -95.0'
PLUG BACK:	—	-115.5' to -115.0'

DEPTH	SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	OVM READING	U. S. C. S. CLASS	LITHOLOGY	DESCRIPTION	WELL INSTALLATION
-80										
-85										
-90										
-95									CONGLOMERATE 7.5 YR 4/6 strong brown, SANDSTONE matrix, fine-grained to medium-grained, 20% GRAVEL, (small pebble), rounded to angular, poorly sorted, 5% CLAY.	
-100										
-105									CONGLOMERATE strong brown, 60% SANDSTONE matrix, fine-grained to medium-grained, 40% GRAVEL small to medium pebble, rounded to angular, poorly sorted.	
-110										
-115									GRAVELLY CLAY 2.5 YR 5/6 red, 50% CLAY, 40% GRAVEL, small to medium pebble, rounded to angular, 10% SAND, poorly sorted.	
									CLAY 2.5 YR 5/6 red, elastic, sticky.	
-120										

ARCADIS

Appendix C

Laboratory Reports CD