AP - 25

STAGE 1 & 2 REPORTS

DATE: June, 2003

AP025

PRELIMINARY SITE INVESTIGATION REPORT

FORMER SCRIPPS PIT LOCATION
NW ¼ of the SW ¼ of Section 25, Township 18 South, Range 26 East
Eddy County, New Mexico

Prepared For:

Yates Petroleum Corporation
105 South Fourth Street
Artesia, New Mexico 88210

ETGI Project # YP2219

Prepared By:
Environmental Technology Group, Inc.
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June 2003

Robert B. Eidson
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1.0 INTRODUCTION

Yates Petroleum Corporation (YATES) is submitting this Preliminary Site Investigation Report as a summary of activities completed to date at the former Scripps Pit site in Eddy County, New Mexico. The regulatory basis for site characterization actions conducted at this site is the August 1993 New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills, and Releases*. Data collected during this subsurface investigation is suitable for use in any subsequent Stage II Abatement Plan. The site is located in the NW ¼ of the SW ¼ of Section 25, Township 18 South, Range 26 East in Eddy County, New Mexico. The surface expression of the former pit area measures approximately 180 feet by 180 feet. The immediate area and region is dominated by petroleum exploration and production facilities. For reference, a site location and site map are provided as Figures 1 and 2, respectively.

Site characterization action was conducted to assess subsurface soil and groundwater conditions associated with oil and gas exploration and production activities by the former responsible party operating the site. Environmental Technology Group, Inc. (ETGI) had previously conducted subsurface soil and groundwater characterization action at the site on 20 October 2000. Refer to the Preliminary Site Investigation Report, November 2000 for details of the previous site characterization action. Laboratory analysis of soil and groundwater samples collected during this previous investigation indicated that groundwater underlying the former pit area had been impacted with dissolved phase benzene and chloride in excess of NMOCD standards.

2.0 SUMMARY OF FIELD ACTIVITIES

ETGI mobilized a hollow-stem auger drilling rig on 30 August and 6 September 2002 to conduct a preliminary site investigation and determine the nature and extent of dissolved phase benzene and chloride concentrations present in the groundwater below the former pit area. ETGI advanced a total of four soil borings, subsequently converted to permanent groundwater monitor wells, to depths varying from of approximately 38 to 55 feet, which was the prevailing depth to sufficiently assess the potential for groundwater impact. The monitor wells were developed utilizing a single use disposable Teflon bailer until a minimum of three well volumes had been removed and groundwater temperature, pH and conductivity parameters had stabilized. Approximately 48 hours after well development, the monitor wells were purged of three well volumes, again monitoring temperature, pH and conductivity parameters, allowed to recharge a minimum of 80 percent of the original well volume and sampled for dissolved phase Benzene, Toluene, Ethylbenzene and total Xylene (BTEX) constituents, chlorides and Total Dissolved Solids (TDS).

3.0 SITE DESCRIPTION

3.1 Regional Geology/Hydrogeology

In the site vicinity, the surface is composed of Quaternary alluvium associated with Pecos River flood plain deposits originating from the Sacramento Mountains to the west. The alluvium is underlain by the Triassic age Dockum Group formation that consists primarily of

red silts and sands, which are irregularly slightly to moderately indurated. The Dockum Group is approximately 1,000 feet thick in the site area and is divided into the Pierce Canyon redbeds and Santa Rosa sandstone in the site vicinity. These formations unconformably overly the Upper Permian Rustler Formation (gypsum, redbeds and dolomites) which unconformably overly the Middle Permian Chalk Bluff Formation (back reef deposits of dolomite, evaporites, redbeds and sandstone).

The site is located near the eastern margin of the Roswell Basin physiographic province, a north-south trending feature located between the Sacramento Mountains to the west and the Permian Basin to the east. Within this feature, groundwater commonly occurs in the alluvium near the Pecos River and in the Permian formations throughout the feature. These aquifers are typically characterized by relatively high hydraulic conductivity and transmissivity. Aquifers within the Triassic Dockum group are usually thin and discontinuous resulting in poor water quality and low well yields.

In the site vicinity, groundwater generally flows to the southeast toward the west channel of the Pecos River, which joins the main channel at the confluence of Brantley Reservoir. The east-west trending intermittent streams in the area appear to have little influence on the region hydraulic gradient, however local variations may occur in the vicinity of these drainage features during precipitation events.

Data collected by the United States Weather Bureau indicate that the average annual precipitation in the site vicinity is approximately 12.4 inches. This amount occurs primarily as storm events during the period from June to October, inclusive. Infiltration from these events is minimal given the high rate of surface runoff and evaporation. The Quaternary alluvium consists of clay, silt, sand, gravel and conglomerate in the near surface area. The thickness of the alluvium ranges from a thin veneer in the west to greater than 300 feet in places just west of the Pecos River. Groundwater in the alluvium originates from the cumulative effects of five sources: local precipitation, surface water, losses from leaky artesian wells, natural leakage of artesian water from the underlying artesian aquifers and irrigation return. The amount of water from each source is variable and indeterminate but, it has been concluded that the majority of the shallow groundwater supply is derived directly or indirectly from the artesian supply through natural leakage and that contributions from direct precipitation and surface runoff contribute as only a minor part of the total recharge. Movement of the shallow groundwater is primarily to the east toward the Pecos River channel where it discharges. The occurrence of shallow groundwater discharging into tributary streams of the Pecos River takes place where the channel beds are cut below the water table; therefore, groundwater locally moves toward those channels. There are a considerable number of shallow irrigation wells introducing artificial discharge into the area, which has locally altered the movement of shallow groundwater, inducing it to flow to the wells.

3.2 Site Geology/Hydrology

Review of the previous site investigation data and boring log/monitor well details generated from this investigation indicate that backfill materials are present at depths varying from approximately 10 to 20 feet bgs in the former pit area. Native, undisturbed soils underlying

the former pit include a sandy clay unit, a sandy gravel unit, a silty sand unit, a very thin soft clay unit and a poorly sorted clean sand unit. Unconsolidated sands and sandy clay units are present on the surface areas surrounding the former pit area. The sands are characterized as moderate orange-pink, very fine grained, well sorted, medium dense to loose alluvial deposits. The sandy clay units are characterized as light brown, and very soft. A discontinuous gravel unit is located approximately 28 to 36 feet bgs to the south of the former pit area.

Groundwater was encountered at depths varying from approximately 30 to 46 feet bgs during drilling activities. Following monitor well development, gauging measurements indicate that the depth to stabilized groundwater levels vary from approximately 41 to 43 feet bgs. The inferred groundwater gradient slopes to the west with a magnitude of 0.003 feet per foot.

3.3 New Mexico Oil Conservation Division (NMOCD) Soil Classification

Based on the following facts: depth to groundwater varying between 18 to 22 feet below the deepest known concentration of regulated contaminant, the nearest surface water body being greater than 1,000 feet away, and the distance of the nearest water well head being greater than 1,000 feet away, according to the NMOCD ranking system (NMOCD, 1993), the site can be assigned a ranking in the range of greater than 19. Therefore, the preliminary action levels are 100 mg/kg for Total Petroleum Hydrocarbons (TPH), 50 mg/kg for BTEX, and 10 mg/kg for benzene in soils.

3.4 Distribution of Hydrocarbons in the Unsaturated Zone

To date, one soil boring and four groundwater monitor wells have been installed at the site to characterize the potential impact to the site from the former pit area. There were no detectable concentrations of TPH or BTEX constituents in the soil samples collected during the installation of monitor wells MW-1, MW-2 or MW-3. TPH concentrations of 3,241 mg/kg and 2,741 mg/kg were detected at depths of 10 and 20 feet bgs, respectively in soil samples collected from monitor well MW-4. These concentrations exceed the baseline NMOCD regulatory standard for TPH of 100 mg/kg. The soil sample collected from the apparent capillary fringe at monitor well MW-4 did not exhibit TPH concentrations above the method detection limit. The soil samples collected from 10 and 20 feet bgs at monitor well MW-4 also contained detectable BTEX constituent concentrations but these concentrations were well below the respective NMOCD regulatory standards for each constituent. Results of the laboratory analysis of soil sampling conducted during monitor well installation activities are included in Table 2 and laboratory reports generated from monitor well installation activities are included as Appendix B.

The chloride concentration recorded from analysis of the soil samples collected from MW- 1 at 10 and 20 feet bgs, MW-2 at 10 and 45 feet bgs, MW-3 at 15, 30 and 45 feet bgs and from MW-4 at 10, 20 and 30 feet bgs indicate elevated chloride impacts at these depths on-site.

The distribution of hydrocarbons in the unsaturated zone has been estimated by utilizing the following techniques:

- Visual observations of subsurface soil samples;
- Review of field screening data;
- Laboratory analyses of selected soil samples.

3.5 Distribution of Hydrocarbons in the Saturated Zone

ETGI advanced a total of four soil borings that were subsequently converted to permanent groundwater monitor wells, to depths varying from 45 to 55 feet bgs, to assess the potential for groundwater impact. Groundwater samples were collected and analyzed for BTEX, chlorides and TDS to determine if the water meets the NMOCD definition of "current beneficial use" (i.e. less than or equal to 10,000 mg/L TDS). Analysis of the groundwater samples collected from monitor wells MW-1, MW-2 and MW-3 indicate that the on-site groundwater has not been impacted with dissolved phase BTEX constituents. Results of the laboratory analysis of the groundwater sample collected from monitor well MW-4 indicates that a dissolved phase benzene concentration, exceeding NMOCD regulatory standards, is present below the former pit area. Concentrations of toluene, ethyl benzene and total xylenes were also present in the groundwater sample collected from monitor well MW-4 but, were considerably below the respective NMOCD regulatory standards. Analytical results indicate that TDS concentrations in groundwater samples collected from all on-site monitor wells is greater than 10,000 mg/L which would indicate that the shallow aquifer is not considered to be of foreseeable beneficial use. Review of the laboratory results derived from analysis for chloride content of the groundwater samples collected indicates that on-site groundwater has elevated dissolved phase concentrations of chloride. A summary of groundwater analytical results is provided in Table 3.

4.0 FOLLOW-UP ACTIVITIES

YATES proposes to establish site-specific risk based closure criteria and utilize a long term groundwater monitoring plan at this site. Given the rural nature of the project location and lack of receptors (i.e. residential and other populated areas, domestic groundwater use, etc.), site-specific action levels will be used in lieu of the default NMOCD action levels. The risk assessment will be conducted using USEPA protocols, and will quantify potential impacts to human health for receptor populations present in the vicinity of the site.

Through the utilization of a Human-Health Based Risk Assessment process, a site-specific approach will be employed to assess the probability of likely human exposure pathways with evaluations of the individual constituents of TPH and BTEX concentrations present in the soil and chloride and TDS concentrations present in the groundwater. Analytical fate-and-transport modeling will provide a means of estimating exposure concentrations and developing risk-based soil and groundwater closure standards. Under ASTME E-1739 "Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites," modeling is recommended as a conservative first step under Tiers 1 and 2 of the site evaluation process, prior to use of more complex numerical modeling methods under Tier 3.

Annual groundwater monitoring of regulated chemicals documented on-site will be conducted until concentration levels begin decreasing through natural attenuation mechanisms. The

monitoring frequency will be increased to a semi-annual schedule and finally to a quarterly monitoring schedule to demonstrate constituent concentrations approaching the Risk Based closure criteria.

In order to prevent subsequent unintended or accidental human exposure to regulated constituents remaining on-site following a risk based scenario, the specific site area will be deed restricted preventing future consideration of development or improvements in the county clerk office, Carlsbad, Eddy County, New Mexico.

Documentation of the aforementioned actions will be submitted to the NMOCD in the final subsurface investigation and site remediation report. Upon receipt of NMOCD approval of the proposed risk assessment in this Preliminary Site Investigation Report, the activities described above will be implemented.

5.0 QA/QC PROCEDURES

5.1 Soil Sampling

Samples of subsurface soils were obtained utilizing a five-foot continuous sampling device using clean, disposable gloves and clean sampling tools. One half of each sample was placed into a labeled zip-lock baggie and exposed to sunlight and ambient temperature for a minimum of thirty minutes prior to field screening with a photoionization detector calibrated to a 100 ppm isobutylene standard. Soil samples selected for laboratory analysis were sealed in an insulated cooler on ice under completed chain-of custody and transported to the Environmental Laboratory of Texas in Odessa, Texas for the requested analysis.

The other portion of the soil sample was placed in a sterile glass container equipped with a Teflon-lined lid furnished by the analytical laboratory. The container was filled to capacity to limit the amount of headspace present. Each container was labeled and placed on ice in an insulated cooler. Upon selection of samples for analysis, the cooler was sealed for shipment to the laboratory. Proper chain-of-custody documentation was maintained throughout the sampling process.

Soil samples were delivered to Environmental Lab of Texas, Inc. in Odessa, Texas for BTEX, TPH and chloride analyses using the methods described below. All soil samples were analyzed within fourteen days following the collection date.

The soil samples were analyzed as follows:

- BTEX concentrations in accordance with EPA SW 846 Method 8021B, 5030
- TPH concentrations in accordance with modified EPA SW 846 Method 8015M GRO/DRO
- Chloride concentrations in accordance with EPA SW846 Method 9253

5.2 Groundwater Sampling

Monitor wells were developed and purged with single-use, disposable Teflon bailer. Monitor wells with sufficient recharge were purged by removing a minimum of three well volumes. Monitor wells that did not recharge sufficiently were purged until no additional groundwater could be obtained.

After purging the wells, groundwater samples were collected with a disposable Teflon sampler and polyethylene line by personnel wearing clean, disposable gloves. Groundwater sample containers were filled in the order of decreasing volatilization sensitivity (i.e., BTEX containers filled first and chloride containers second).

Groundwater samples, collected for BTEX analysis, were placed in 40 ml glass VOA vials equipped with Teflon-lined caps. The vials were filled to a positive meniscus, sealed, and visually checked to ensure the absence of air bubbles. The analytical laboratory provided all of the containers.

Groundwater samples, collected for TDS analysis, were filled to capacity in sterile, amber, 1 liter glass containers equipped with Teflon-lined caps. Groundwater samples, collected for chloride analysis, were filled to capacity in sterile, 500-ml plastic containers equipped with Teflon-lined caps preserved with nitric acid. The analytical laboratory provided all containers and preservatives.

The filled containers were labeled and placed on ice in an insulated cooler. The cooler was sealed for transportation to the analytical laboratory. Proper chain-of-custody documentation was maintained throughout the sampling process.

The groundwater samples were analyzed as follows:

- BTEX concentrations in accordance with EPA SW 846 Methods 8021B, 5030
- TDS concentrations in accordance with EPA SW 846 Method 160.1
- Chloride concentrations in accordance with EPA SW 846 Method 9253

5.3 Decontamination of Equipment

In general, the cleaning procedures consisted of using high pressure steam to wash the drilling and sampling equipment prior to drilling. Prior to use, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

5.4 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form. These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

6.0 LIMITATIONS

Environmental Technology Group, Inc. has prepared this Preliminary Site Investigation Report to the best of its ability. No other warranty, expressed or implied, is made or intended.

Environmental Technology Group, Inc. has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Environmental Technology Group, Inc. has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Environmental Technology Group, Inc. has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Environmental Technology Group, Inc. also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of the Yates Petroleum Corporation. The information contained in this report including all exhibits and attachments, may not be used by any other party without the express consent of Environmental Technology Group, Inc. and/or Yates Petroleum Corporation.

7.0 REFERENCES

Title 19 NMAC 15.A.19;

Guidelines for Remediation of Leaks, Spills and Releases; August 1993 (NMOCD, 1993);

Unlined Surface Impoundment Closure Guidelines; February 1993 (NMOCD, 1993); and

Geology and Ground-Water Resources of Eddy County, New Mexico; G. E. Hendrickson and R. S. Jones; United States Geological Survey, New Mexico State Bureau of Mines and Mineral Resources and the State Engineer of New Mexico, 1952.

8.0 DISTRIBUTION

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Midland, Texas 79703

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2540 W. Marland
Hobbs, New Mexico 88240

COPY NO.: 1

Pat Caperton
Quality Control Reviewer

TABLES

TABLE 1

GROUND WATER ELEVATION
CUMULATIVE TABLE

YATES PETROLEUM CORPORATION
FORMER SCRIPPS PIT SITE
EDDY COUNTY, NEW MEXICO
ETGI PROJECT # YA 2219

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	GROUND WATER ELEVATION
MW - 1	09/18/02	3,287.52	-	41.18	0.00	3,246.34
	09/19/02	3,287.52	-	41.25	0.00	3,246.27
MW - 2	09/18/02	3,287.91	-	41.95	0.00	3,245.96
	09/19/02	3,287.91	-	41.95	0.00	3,245.96
MW - 3	09/18/02	3,288.79	-	42.84	0.00	3,245.95
	09/19/02	3,288.79	-	42.86	0.00	3,245.93
MW - 4	09/18/02	3,288.25	-	41.28	0.00	3,246.97
	09/19/02	3,288.25	-	42.32	0.00	3,245.93

Table 2

CONCENTRATIONS OF BTEX, CHLORIDES AND TPH IN SOIL

YATES PETROLEUM CORPORATION
FORMER SCRIPPS PIT SITE
EDDY COUNTY, NEW MEXICO
ETGI PROJECT #YA 2219

All concentrations are in mg/kg

SAMPLE NAME	SAMPLE DATE	SAMPLE DEPTH	SW 846-8021B, 5030					Method: 9253	Method: 8015	
			BENZENE	TOLUENE	ETHYL-BENZENE	M,P-XYLENES	O-XYLENES	CHLORIDES	GRO	DRO
MW-1	09/06/02	10'	<0.025	<0.025	<0.025	<0.025	<0.025	993	<10.0	<10.0
		20'	<0.025	<0.025	<0.025	<0.025	<0.025	443	<10.0	<10.0
		30'	<0.025	<0.025	<0.025	<0.025	<0.025	106	<10.0	<10.0
MW-2	08/30/02	10'	<0.025	<0.025	<0.025	<0.025	<0.025	1220	<10.0	<10.0
		25'	<0.025	<0.025	<0.025	<0.025	<0.025	<20.0	<10.0	<10.0
		45'	<0.025	<0.025	<0.025	<0.025	<0.025	2980	<10.0	<10.0
MW-3	08/30/02	15'	<0.025	<0.025	<0.025	<0.025	<0.025	390	<10.0	<10.0
		30'	<0.025	<0.025	<0.025	<0.025	<0.025	2760	<10.0	<10.0
		45'	<0.025	<0.025	<0.025	<0.025	<0.025	319	<10.0	<10.0
MW-4	08/30/02	10'	0.269	0.342	0.957	2.32	1.12	4430	321	2920
		20'	1.74	0.573	9.26	6.00	5.79	3510	591	2150
		42'	<0.025	<0.025	<0.025	<0.025	<0.025	4080	<10.0	<10.0

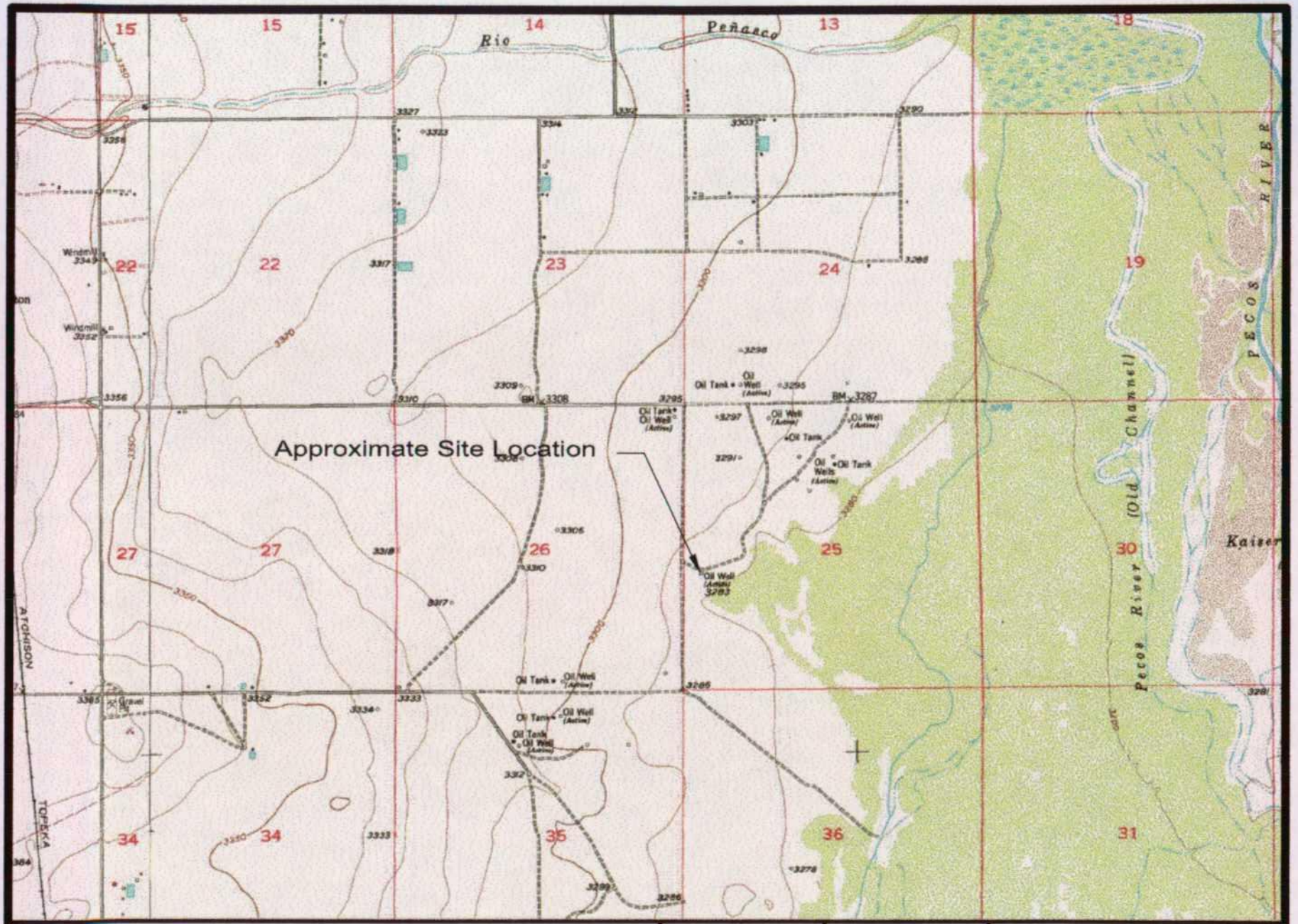
TABLE 3
CONCENTRATIONS OF BTEX, CHLORIDES AND TDS IN GROUNDWATER

YATES PETROLEUM CORPORATION
FORMER SCRIPPS PIT SITE
EDDY COUNTY , NEW MEXICO
ETGI PROJECT # YA 2219

All concentrations are in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				Method: 9253	
		BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	CHLORIDES	TDS
MW - 1	09/19/02	<0.001	<0.001	<0.001	<0.001	8150	18400
MW - 2	09/19/02	<0.001	<0.001	<0.001	<0.001	6560	14800
MW - 3	09/19/02	<0.001	<0.001	<0.001	<0.001	4700	10700
MW - 4	09/19/02	0.069	0.008	0.010	0.016	38100	57400

FIGURES



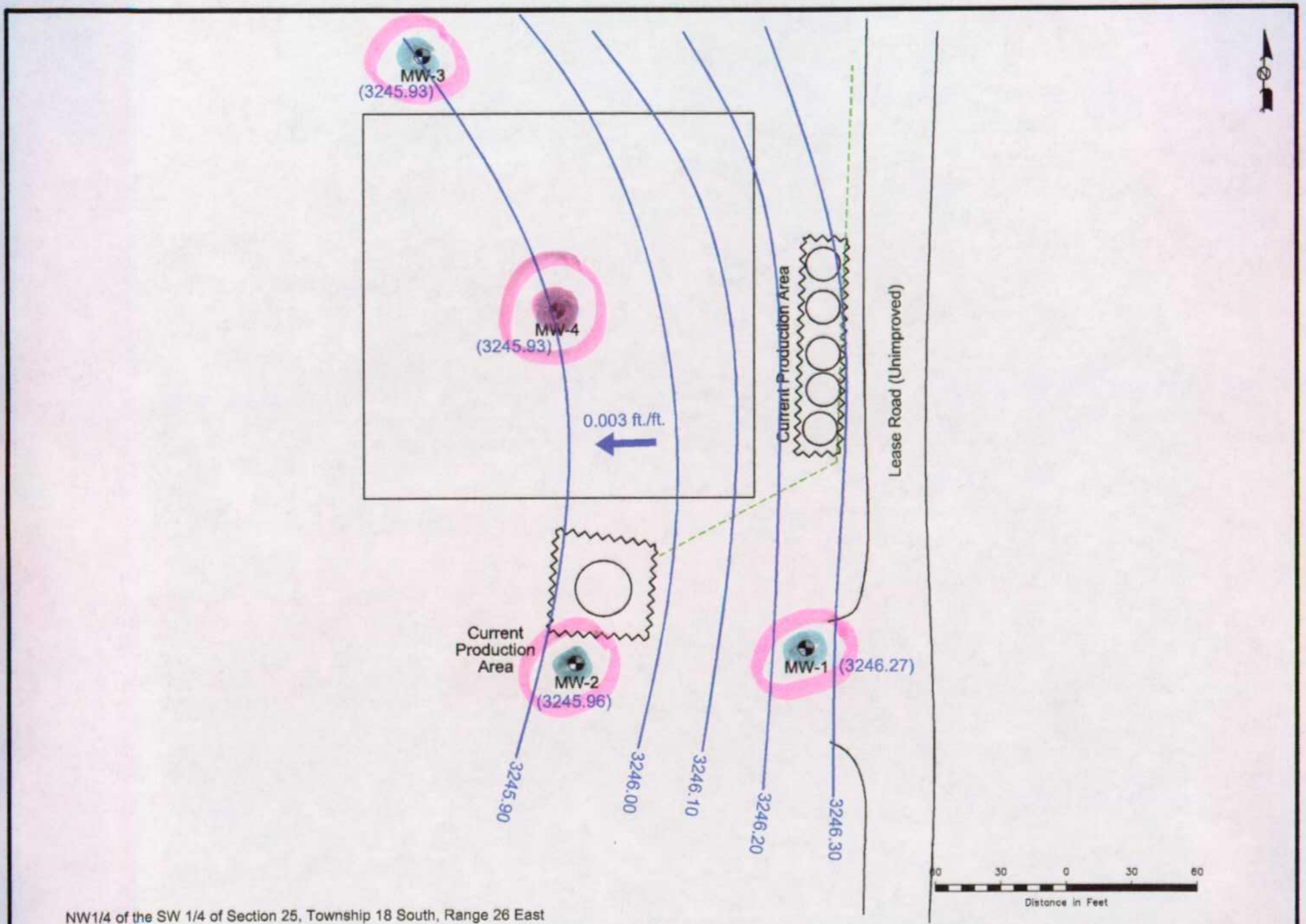
NW1/4 SW1/4 Section 25 Township 18 South Range 26 East

Figure 1
Site Location Map

Yates Petroleum Corp.
Former Scripp Pit Site
Artesia, NM

Environmental Technology Group, Inc.

Scale: NTS	Prep By: JDJ	Checked By: RE
November 21, 2002	ETGI Project # YA2219	



NW1/4 of the SW 1/4 of Section 25, Township 18 South, Range 26 East

Legend:
- Monitor Well Location and Groundwater Elevation if Feet
- Earthen Berm
- Soil Boring Location
- 3246.30 Groundwater Gradient Contour Line with Elevation in Feet
- 0.003 ft./ft. Groundwater Gradient Direction and Magnitude

Figure 2
Site Map

Yates Petroleum Corporation
Former Scripps Pit Site
Eddy County, New Mexico

Environmental Technology Group, Inc.

Scale: 1"=60'	Prep By: JDJ	Checked By: RBE
November 5, 2002	ETGI Project #: YA2219	
NW1/4 of the SW 1/4 of Section 25, Township 18 South, Range 26 East		

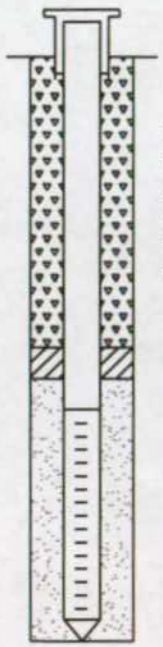
APPENDICES

Appendix A

Soil Boring Logs

Monitoring Well MW - 1

Depth (feet)	PID Reading	Odor	Stain	Notes
5	3.5	None	None	
10	2.8	None	None	
15	3.0	None	None	
20	3.7	None	None	Damp
25	2.8	None	None	Damp
30	2.6	None	Trace	Wet
TD				



Monitoring Well Details

Date Drilled	8 - 29 - 02
Thickness of Bentonite Seal	3 ft
Length of PVC Well Screen	15 ft
Depth of PVC Well	38 ft
Depth of Exploratory Well	38 ft
Depth to Ground Water	30 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

Legend

Sand - (SP) - Moderate Orange-Pink, Very Fine Grained, Well Sorted, Medium Dense to Loose.

Sand - (SP) - Very Pale Orange, Very Fine Grained, Well Sorted, Loose to Moderate Dense.

Sandy Clay - (CL) - Dark Yellowish-Orange, Soft.

Silty Sand - (SM) - Light-Brown to Pink, Yellowish Brown, Very Fine Grained, Moderately Sorted, Loose to Medium Dense, Slightly Damp.

Sandy Clay - (CL) - Moderate Brown, Slightly Fractured, Damp.

Clay Sand - (SC) - Light-Brown, Soft to Medium Soft, Wet.

Indicates samples selected for laboratory analysis.

Indicates the ground water level measured on date.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The monitoring well was installed on date using hollow stem auger drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Detail

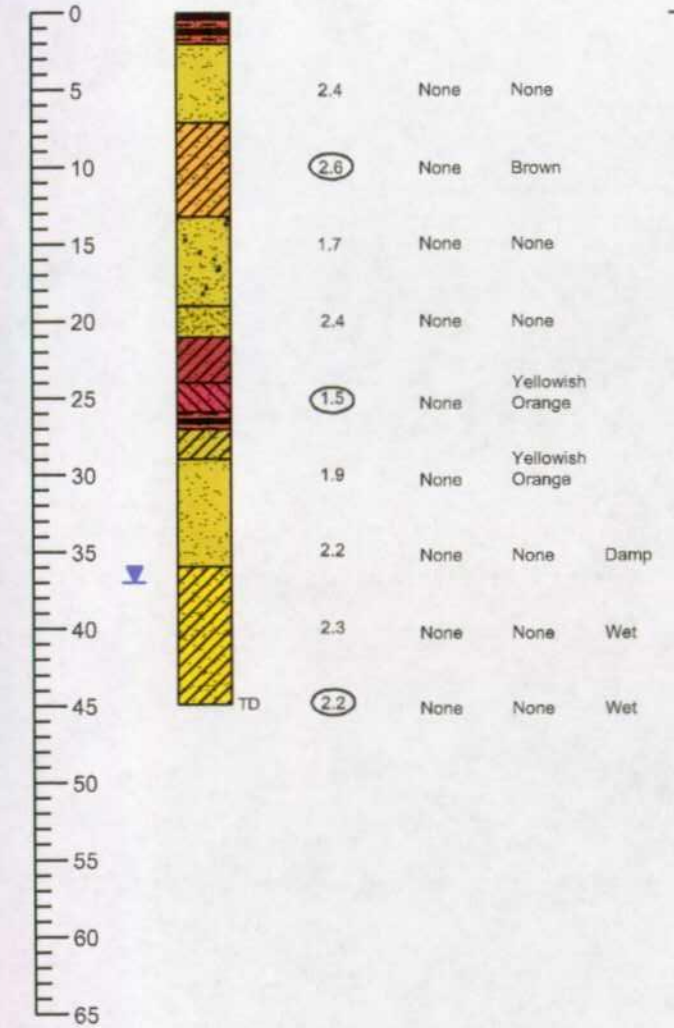
Monitoring Well - 1

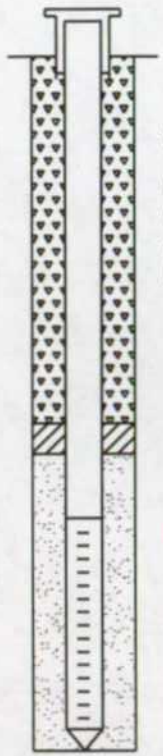
Yates Petroleum. Former Scripps Pit Site Eddy County, NM

Environmental Technology Group, Inc.

Scale: use scale	Prep By: LGM	Checked By: RE
Oct. 8, 2002	ETGI Project # YA2219	

Monitoring Well MW - 2





Monitoring Well Details

Date Drilled	8 - 30 - 02
Thickness of Bentonite Seal	3 ft
Length of PVC Well Screen	15 ft
Depth of PVC Well	45 ft
Depth of Exploratory Well	45 ft
Depth to Ground Water	37 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

Legend

- Sand Clay - (SP) - Light-Brown, Very Soft.
- Sand - (SW) - Very Pale Orange, Very Fine to Fine Grained, Loose.
- Silty Sand - (SM) - White to Grayish-Orange, Very Fine Grained, Well Sorted, Dense.
- Sandy Gravel - (GC) - Very Pale Orange, Poorly Sorted, Fine To Course Gravel.
- Sand - (SP) -Very Pale Orange, Very Fine Grained, Well Sorted, Loose.
- Sandy Clay - (ML) - Moderate Reddish-Brown, Firm, Sand.
- Sand - (SP) - Grayish-Orange to Very Pale Orange, Fine to Medium Grained, Well Rounded, Moderately Sorted.
- Clay - (CL) - Light Brown, Medium Stiff.
- Silty Sand - (SM) - Varey Pale Orange, Well Sorted, Loose.
- Gravel - (GC) - Very Pale Orange, Poorly Sorted, Fine Gravel.
- Sand - (SW) - Grayish Orange to Dark Yellowish Orange, Fine to Medium Grained, Moderately Sorted, Well Rounded, Wet.

Indicates samples selected for laboratory analysis.

Indicates the ground water level measured on date.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The monitoring well was installed on date using hollow stem auger drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Detail

Monitoring Well - 2

Yates Petroleum. Former Scripps Pit Site Eddy County, NM

Environmental Technology Group, Inc.

Scale: use scale	Prep By: LGM	Checked By: RE
Oct. 8, 2002	ETGI Project # YA2219	

Monitoring Well MW - 3

Depth (feet)	PID Reading	Odor	Stain	Notes
5	2.2	None	None	
10	1.4	None	Brown	
15	1.1	None	None	
20	1.1	None	None	
25	1.1	None	None	
30	0.9	None	None	
35	0.6	None	None	Damp
40	0.5	None	None	Damp
45	0.9	None	None	Wet
50				TD

Monitoring Well Details

Date Drilled	8 - 30 - 02
Thickness of Bentonite Seal	3 ft
Length of PVC Well Screen	15 ft
Depth of PVC Well	50 ft
Depth of Exploratory Well	50 ft
Depth to Ground Water	42 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

Legend

Sand Clay - (SP) - Light-Brown, Very Soft.

Sand - (SN) - Very Pale Orange, Moderate Grade, Very Fine to Fine Grained, Moderate Dense.

Sandy Clay - (CL) - Moderate Orange-Pink to White, Stiff.

Silty Sand - (SM) - Grayish Orange, Well Sorted, Very Fine Grained, Medium Dense.

Clay - (CL) -Very Pale Orange, Moderate Stiff.

Clay - (CL) - Pale Greenish-Yellow, Dense.

Clay - (CL) - Moderate Brown, and Pale Greenish-Yellow, Dense.

Clay - (CL) - Moderate Brown, Slightly Sandy, Dense.

Clay - (CL) - Pale Greenish Yellow, Stiff to Moderate Soft, Damp.

Clay - (CL) - Very Pale Orange to Greenish Yellow, Soft, Damp.

Clay - (CL) - Very Pale Orange, Wet.

Indicates samples selected for laboratory analysis.

Indicates the ground water level measured on date.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The monitoring well was installed on date using hollow stem auger drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Detail

Monitoring Well - 3

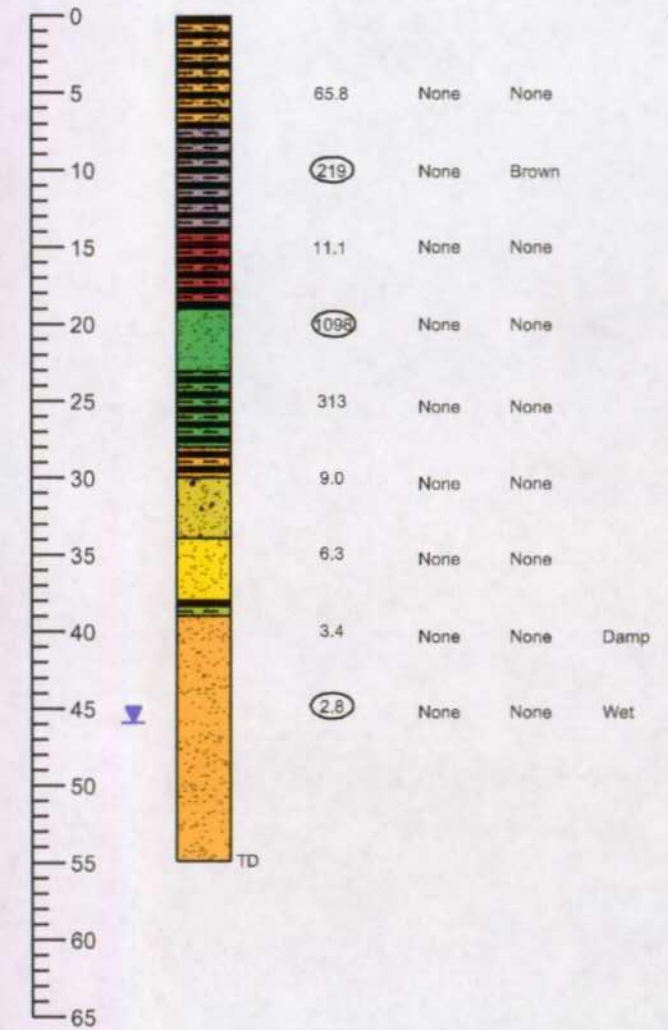
Yates Petroleum. Former Scripps Pit Site Eddy County, NM

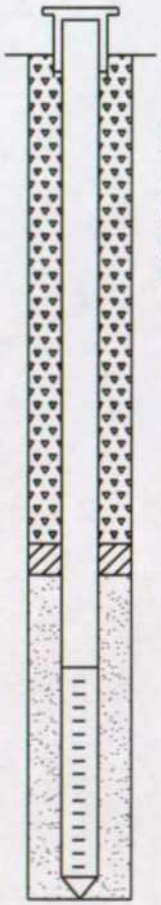
ETGI

Environmental Technology Group, Inc.

Scale: use scale	Prep By: LGM	Checked By: RE
Oct. 10, 2002	ETGI Project # YA2219	

Monitoring Well MW - 4





Monitoring Well Details

Date Drilled	8 - 30 - 02
Thickness of Bentonite Seal	3 ft
Length of PVC Well Screen	15 ft
Depth of PVC Well	55 ft
Depth of Exploratory Well	55 ft
Depth to Ground Water	46 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

Screen

Legend

Sand Clay - (CL) - Grayish Orange, Soft.

Sandy Clay - (Cl) - Medium Gray to Black, Soft.

Sandy Clay - (CL) - Moderate Reddish Brown, Firm, Dry.

Silty Sand - (SM) - Very Pale Green to Pale Greenish Yellow, Very Fine Grained, Well Sorted, Loose.

Clay - (CL) -Yellowish Gray, Medium Soft to Stiff.

Sandy Clay - (CL) - Grayish Orange, Medium Soft.

Sandy Gravel - (SG) - Very Pale Orange, Poorly Sorted, Fine to Course Gravel.

Silty Sand - (SM) - Dark Yellowish Orange, Well Sorted, Loose.

Clay - (CL) - Moderate Yellowish Brown, Soft.

Sand - (SP) - Grayish Orange, Fine To Course Grained, Well Rounded, Poorly Sorted, Wet.

Indicates samples selected for laboratory analysis.

Indicates the ground water level measured on date.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1. The monitoring well was installed on date using hollow stem auger drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Detail

Monitoring Well - 4

Yates Petroleum. Former Scripps Pit Site Eddy County, NM

Environmental Technology Group, Inc.

Scale: use scale	Prep By: LGM	Checked By: RE
Oct. 10, 2002	ETGI Project # YA2219	

Appendix B

Laboratory Reports

FILE

ANALYTICAL REPORT

Prepared for:

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Project:	Scripps
PO#:	
Order#:	G0204529
Report Date:	09/24/2002

Certificates
US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240
505-397-4701

Order#: G0204529
Project: YA-2219
Project Name: Scripps
Location: Artesia, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0204529-01	Scripps MW-1 (10')	SOIL	9/6/02 8:15	9/16/02 14:10	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX, Chloride	**Rejected:** No		**Temp:** 4 C		
0204529-02	Scripps MW-1 (20')	SOIL	9/6/02 8:29	9/16/02 14:10	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX, Chloride	**Rejected:** No		**Temp:** 4 C		
0204529-03	Scripps MW-1 (30')	SOIL	9/6/02 9:06	9/16/02 14:10	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX, Chloride	**Rejected:** No		**Temp:** 4 C		

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0204529
Project: YA-2219
Project Name: Scripps
Location: Artesia, NM

Lab ID: 0204529-01
Sample ID: Scripps MW-1 (10')

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/18/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003197-02		9/20/02 13:33	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	100%	80	120
Bromofluorobenzene	102%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0204529
Project: YA-2219
Project Name: Scripps
Location: Artesia, NM

Lab ID: 0204529-02
Sample ID: Scripps MW-1 (20')

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/18/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	**<10.0**	10.0
DRO, >C12-C35	**<10.0**	10.0
TOTAL, C6-C35	**<10.0**	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003197-02		9/20/02 13:55	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	**<0.025**	0.025
Ethylbenzene	**<0.025**	0.025
Toluene	**<0.025**	0.025
p/m-Xylene	**<0.025**	0.025
o-Xylene	**<0.025**	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	**100%**	**80**	**120**
Bromofluorobenzene	**101%**	**80**	**120**

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0204529
Project: YA-2219
Project Name: Scripps
Location: Artesia, NM

Lab ID: 0204529-03
Sample ID: Scripps MW-1 (30')

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/18/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	**<10.0**	10.0
DRO, >C12-C35	**<10.0**	10.0
TOTAL, C6-C35	**<10.0**	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003197-02		9/20/02 14:17	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	**<0.025**	0.025
Ethylbenzene	**<0.025**	0.025
Toluene	**<0.025**	0.025
p/m-Xylene	**<0.025**	0.025
o-Xylene	**<0.025**	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	**92%**	**80**	**120**
Bromofluorobenzene	**99%**	**80**	**120**

Approval: Celey D. Keene 9/25/02
Raland K. Tuttle, Lab Director, QA Officer — Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON		Order#:	G0204529
Environmental Technology Group, Inc.		Project:	YA-2219
2540 W. MARLAND		Project Name:	Scripps
HOBBS, NM 88240		Location:	Artesia, NM

Lab ID: 0204529-01
Sample ID: Scripps MW-1 (10')

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	993	mg/kg	1	20	9253	9/17/02	SB

Lab ID: 0204529-02
Sample ID: Scripps MW-1 (20')

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	443	mg/kg	1	20	9253	9/17/02	SB

Lab ID: 0204529-03
Sample ID: Scripps MW-1 (30')

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	106	mg/kg	1	20	9253	9/17/02	SB

Approval: Celey D. Keene 9/25/02
Date

Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

RL = Reporting Limit N/A = Not Applicable

ENVIRONMENTAL LAB OF TEXAS I, LTD. 12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0204529

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003170-02			<10.0		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003170-03		1000	1070	107.%	
CONTROL DUP SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003170-04		1000	1080	108.%	0.9%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003170-05		1000	1060	106.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204529

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0003197-02			<0.025		
Ethylbenzene-mg/kg	0003197-02			<0.025		
Toluene-mg/kg	0003197-02			<0.025		
p/m-Xylene-mg/kg	0003197-02			<0.025		
o-Xylene-mg/kg	0003197-02			<0.025		
MS SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0204530-09	0	0.1	0.097	97.%	
Ethylbenzene-mg/kg	0204530-09	0	0.1	0.100	100.%	
Toluene-mg/kg	0204530-09	0	0.1	0.100	100.%	
p/m-Xylene-mg/kg	0204530-09	0	0.2	0.207	103.5%	
o-Xylene-mg/kg	0204530-09	0	0.1	0.098	98.%	
MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0204530-09	0	0.1	0.095	95.%	2.1%
Ethylbenzene-mg/kg	0204530-09	0	0.1	0.096	96.%	4.1%
Toluene-mg/kg	0204530-09	0	0.1	0.097	97.%	3.%
p/m-Xylene-mg/kg	0204530-09	0	0.2	0.201	100.5%	2.9%
o-Xylene-mg/kg	0204530-09	0	0.1	0.095	95.%	3.1%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0003197-05		0.1	0.100	100.%	
Ethylbenzene-mg/kg	0003197-05		0.1	0.101	101.%	
Toluene-mg/kg	0003197-05		0.1	0.102	102.%	
p/m-Xylene-mg/kg	0003197-05		0.2	0.210	105.%	
o-Xylene-mg/kg	0003197-05		0.1	0.101	101.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0204529

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0003168-01			<20.00		
Chloride-mg/kg	0003169-01			<20.0		
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0204527-01	8680	5000	13600	98.4%	
Chloride-mg/kg	0204529-02	443	1000	1440	99.7%	
MSD SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0204527-01	8680	5000	13600	98.4%	0.%
Chloride-mg/kg	0204529-02	443	1000	1420	97.7%	1.4%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0003168-04		5000	4960	99.2%	
Chloride-mg/kg	0003169-04		5000	4960	99.2%	

COC #140 ~~WEX~~ Scripps (EM) 2 OF 2 PKG 4

nvironmental Lab of Texas I, Ltd.

00 West I 20 East
:ssa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: KEN DUTTON
Company Name: ETGI
Company Address: 2540 WEST MARLAND
City/State/Zip: HOBBS/NM/88242
Telephone No: (505) 397-4882 Fax No: (505) 397-4701
Sampler Signature:

Project Name: ~~YATES~~ VARIOUS
Project #: ~~YA-2200~~
Project Loc: ARTESIA, NM
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: TPH 418.1 8015M 1005 1006	TOTAL: Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RCI							RUSH TAT (Pre-Schedule)	Standard TAT
	INEX MW-2 (55')	9/10/02	0948	1	X									X		X		X					X									X
	INEX MW-2 (65')	9/10/02	1051	1	X									X		X		X					X									X
	INEX MW-3 (30')	9/10/02	1401	1	X									X		X		X					X									X
	INEX MW-3 (50')	9/10/02	1500	1	X									X		X		X					X									X
	INEX MW-3 (60)	9/10/02	1541	1	X									X		X		X					X									X
	INEX MW-4 (10')	9/11/02	0903	1	X									X		X		X					X									X
	INEX MW-4 (20')	9/11/02	0934	1	X									X		X		X					X									X
	INEX MW-4 (45')	9/11/02	1050	1	X									X		X		X					X									X
204529 - 01	SCRIPPS MW-1 (10') (EM) 9-6-2	~~8/29/02~~	0815	1	X									X		X		X					X									X
02	SCRIPPS MW-1 (20') (EM) 9-6-2	~~8/29/02~~	0829	1	X									X		X		X					X									X

Special Instructions: PROJ. #'s: INEX YA-2220
SCRIPPS YA-2219

Sample Containers Intact? Y N
Temperature Upon Receipt: 4 °C
Laboratory Comments: *Scripps samples out of hold time. Client is aware. (EM)

Relinquished by	Date	Time	Received by:	Date	Time
	9/16/02	1410			
Relinquished by	Date	Time	Received by ELOT:	Date	Time
			Roy B Wortley	9-16-02	14:10

COPY

Samples actually sampled 9-6-02 as stated on containers not COC.

COC #149 SCRIPPS 3 OF 5 4/1

Environmental Lab of Texas I, Ltd.

2600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: KEN DUTTON
Company Name: ETGI
Company Address: 2540 WEST MARLAND
City/State/Zip: HOBBS/NM/88242
Telephone No: (505) 397-4882 Fax No: (505) 397-4701
Sampler Signature:

Project Name: YATES
Project #:
Project Loc: ARTESIA, NM.
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: TOTAL: TPH: 418.1 8015M 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX: 8021B/5030	RCI	RUSH TAT (Pre-Schedule)	Standard TAT
0204529-03	SCRIPPS MW-1(30') (JM) 9-6-02	8/29/02	0906	1	X									X		X		X					X			X
	SCOUT "EH" SB-1 (20')	9/12/02	0800	1	X									X		X		X					X			X
	SCOUT "EH" SB-1 (40)	9/12/02	0849	1	X									X		X		X					X			X
	SCOUT "EH" SB-1 (50')	9/12/02	0923	1	X									X		X		X					X			X
	SCOUT "EH" SB-2 (20')	9/12/02	1032	1	X									X		X		X					X			X
	SCOUT "EH" SB-2 (30')	9/12/02	1057	1	X									X		X		X					X			X
	SCOUT "EH" SB-2 (50)	9/12/02	1200	1	X									X		X		X					X			X
	SCOUT "EH" SB-3 (10')	9/12/02	1300		X									X		X		X					X			X
	SCOUT "EH" SB-3 (25')	9/12/02	1322		X									X		X		X					X			X
	SCOUT "EH" SB-3 (50')	9/12/02	1418		X									X		X		X					X			X

Special Instructions: PROJ #'s: SCOUT "EH" YA-2216

Sample Containers Intact? Y N
Temperature Upon Receipt: 4°C
Laboratory Comments: *Scripps samples out of hold time. Client is aware (JM)
* Samples actually Sampled on 9-6-02 as stated on Containers not COC

Relinquished by	Date	Time	Received by:	Date	Time
	9/16/02	14:10			
Relinquished by	Date	Time	Received by ELOT:	Date	Time
			Roy B Worthy	9-16-02	14:10

FILE

ANALYTICAL REPORT

Prepared for:

Robert Eidson
Environmental Technology Group, Inc.
2540 West Marland
Hobbs, NM 88242

Project:	Yates Petroleum
PO#:	YA-2200
Order#:	G0204449
Report Date:	09/12/2002

Certificates
US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 West Marland
Hobbs, NM 88242
505-394-4701

Order#: G0204449
Project:
Project Name: Yates Petroleum
Location: Artesia, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
	8021B/5030 BTEX Chloride					
0204449-18	Scripps MW-2 10'	SOIL	8/30/02 9:48	9/6/02 12:30	4 oz Glass	Ice
	Lab Testing: 8015M 8021B/5030 BTEX Chloride	**Rejected:** No		**Temp:** 0.5 C		
0204449-19	Scripps MW-2 25'	SOIL	8/30/02 10:26	9/6/02 12:30	4 oz Glass	Ice
	Lab Testing: 8015M 8021B/5030 BTEX Chloride	**Rejected:** No		**Temp:** 0.5 C		
0204449-20	Scripps MW-2 45'	SOIL	8/30/02 11:12	9/6/02 12:30	4 oz Glass	Ice
	Lab Testing: 8015M 8021B/5030 BTEX Chloride	**Rejected:** No		**Temp:** 0.5 C		
0204449-21	Scripps MW-3 15'	SOIL	8/30/02 11:56	9/6/02 12:30	4 oz Glass	Ice
	Lab Testing: 8015M 8021B/5030 BTEX Chloride	**Rejected:** No		**Temp:** 0.5 C		
0204449-22	Scripps MW-3 30'	SOIL	8/30/02 12:24	9/6/02 12:30	4 oz Glass	Ice
	Lab Testing: 8015M 8021B/5030 BTEX Chloride	**Rejected:** No		**Temp:** 0.5 C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 West Marland
Hobbs, NM 88242
505-394-4701

Order#: G0204449
Project:
Project Name: Yates Petroleum
Location: Artesia, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0204449-23	Scripps MW-3 45'	SOIL	8/30/02 12:54	9/6/02 12:30	4 oz Glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX, Chloride	**Rejected:** No		**Temp:** 0.5 C		
0204449-24	Scripps MW-4 10'	SOIL	8/30/02 14:48	9/6/02 12:30	4 oz Glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX, Chloride	**Rejected:** No		**Temp:** 0.5 C		
0204449-25	Scripps MW-4 20'	SOIL	8/30/02 15:04	9/6/02 12:30	4 oz Glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX, Chloride	**Rejected:** No		**Temp:** 0.5 C		
0204449-26	Scripps MW-4 42'	SOIL	8/30/02 15:47	9/6/02 12:30	4 oz Glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX, Chloride	**Rejected:** No		**Temp:** 0.5 C		

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Robert Eidson
Environmental Technology Group, Inc.
2540 West Marland
Hobbs, NM 88242

Order#: G0204449
Project:
Project Name: Yates Petroleum
Location: Artesia, NM

Lab ID: 0204449-18
Sample ID: Scripps MW-2 10'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/7/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003104-02		9/11/02 10:45	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	101%	80	120
Bromofluorobenzene	101%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Robert Eidson
Environmental Technology Group, Inc.
2540 West Marland
Hobbs, NM 88242

Order#: G0204449
Project:
Project Name: Yates Petroleum
Location: Artesia, NM

Lab ID: 0204449-19
Sample ID: Scripps MW-2 25'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/7/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003104-02		9/11/02 11:07	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	100%	80	120
Bromofluorobenzene	103%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Robert Eidson
Environmental Technology Group, Inc.
2540 West Marland
Hobbs, NM 88242

Order#: G0204449
Project:
Project Name: Yates Petroleum
Location: Artesia, NM

Lab ID: 0204449-20
Sample ID: Scripps MW-2 45'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/7/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003104-02		9/11/02 11:30	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	95%	80	120
Bromofluorobenzene	99%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Robert Eidson
Environmental Technology Group, Inc.
2540 West Marland
Hobbs, NM 88242

Order#: G0204449
Project:
Project Name: Yates Petroleum
Location: Artesia, NM

Lab ID: 0204449-21
Sample ID: Scripps MW-3 15'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/7/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003104-02		9/11/02 13:47	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	101%	80	120
Bromofluorobenzene	102%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Robert Eidson
Environmental Technology Group, Inc.
2540 West Marland
Hobbs, NM 88242

Order#: G0204449
Project:
Project Name: Yates Petroleum
Location: Artesia, NM

Lab ID: 0204449-22
Sample ID: Scripps MW-3 30'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/7/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003104-02		9/11/02 14:09	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	91%	80	120
Bromofluorobenzene	96%	80	120

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Robert Eidson
Environmental Technology Group, Inc.
2540 West Marland
Hobbs, NM 88242

Order#: G0204449
Project:
Project Name: Yates Petroleum
Location: Artesia, NM

Lab ID: 0204449-23
Sample ID: Scripps MW-3 45'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/7/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	**<10.0**	10.0
DRO, >C12-C35	**<10.0**	10.0
TOTAL, C6-C35	**<10.0**	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003104-02		9/11/02 14:31	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	**<0.025**	0.025
Ethylbenzene	**<0.025**	0.025
Toluene	**<0.025**	0.025
p/m-Xylene	**<0.025**	0.025
o-Xylene	**<0.025**	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	**89%**	**80**	**120**
Bromofluorobenzene	**93%**	**80**	**120**

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Robert Eidson
Environmental Technology Group, Inc.
2540 West Marland
Hobbs, NM 88242

Order#: G0204449
Project:
Project Name: Yates Petroleum
Location: Artesia, NM

Lab ID: 0204449-24
Sample ID: Scripps MW-4 10'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/7/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	**321**	10.0
DRO, >C12-C35	**2,920**	10.0
TOTAL, C6-C35	**3,241**	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003116-02		9/11/02 15:37	1	100	CK	8021B

Parameter	Result mg/kg	RL
Benzene	**0.269**	0.100
Ethylbenzene	**0.957**	0.100
Toluene	**0.342**	0.100
p/m-Xylene	**2.32**	0.100
o-Xylene	**1.12**	0.100

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	**119%**	**80**	**120**
Bromofluorobenzene	**104%**	**80**	**120**

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Robert Eidson
Environmental Technology Group, Inc.
2540 West Marland
Hobbs, NM 88242

Order#: G0204449
Project:
Project Name: Yates Petroleum
Location: Artesia, NM

Lab ID: 0204449-25
Sample ID: Scripps MW-4 20'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/7/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	**591**	10.0
DRO, >C12-C35	**2,150**	10.0
TOTAL, C6-C35	**2,741**	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003116-02		9/11/02 15:59	1	100	CK	8021B

Parameter	Result mg/kg	RL
Benzene	**1.74**	0.100
Ethylbenzene	**9.26**	0.100
Toluene	**0.573**	0.100
p/m-Xylene	**6.00**	0.100
o-Xylene	**5.79**	0.100

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	**213%**	**80**	**120**
Bromofluorobenzene	**108%**	**80**	**120**

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Robert Eidson
Environmental Technology Group, Inc.
2540 West Marland
Hobbs, NM 88242

Order#: G0204449
Project:
Project Name: Yates Petroleum
Location: Artesia, NM

Lab ID: 0204449-26
Sample ID: Scripps MW-4 42'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/7/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	**<10.0**	10.0
DRO, >C12-C35	**<10.0**	10.0
TOTAL, C6-C35	**<10.0**	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003116-02		9/11/02 16:21	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	**<0.025**	0.025
Ethylbenzene	**<0.025**	0.025
Toluene	**<0.025**	0.025
p/m-Xylene	**<0.025**	0.025
o-Xylene	**<0.025**	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	**90%**	**80**	**120**
Bromofluorobenzene	**96%**	**80**	**120**

Approval: Raland K Tuttle 9-12-02
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Robert Eidson
Environmental Technology Group, Inc.
2540 West Mariand
Hobbs, NM 88242

Order#: G0204449
Project:
Project Name: Yates Petroleum
Location: Artesia, NM

Lab ID: 0204449-13
Sample ID: Lattion MW-3 35'

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	382	mg/kg	1	20	9253	9/11/02	SB

Lab ID: 0204449-14
Sample ID: Lattion MW-3 65'

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	<20.0	mg/kg	1	20	9253	9/11/02	SB

Lab ID: 0204449-15
Sample ID: Lattion MW-4 20'

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	2390	mg/kg	1	20	9253	9/11/02	SB

Lab ID: 0204449-16
Sample ID: Lattion MW-4 45

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	213	mg/kg	1	20	9253	9/11/02	SB

Lab ID: 0204449-17
Sample ID: Lattion MW-4 55'

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	<20.0	mg/kg	1	20	9253	9/11/02	SB

Lab ID: 0204449-18
Sample ID: Scripps MW-2 10'

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	1220	mg/kg	1	20	9253	9/11/02	SB

RL = Reporting Limit N/A = Not Applicable

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Robert Eidson
Environmental Technology Group, Inc.
2540 West Marland
Hobbs, NM 88242

Order#: G0204449
Project:
Project Name: Yates Petroleum
Location: Artesia, NM

Lab ID: 0204449-19
Sample ID: Scripps MW-2 25'

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	<20.0	mg/kg	1	20	9253	9/11/02	SB

Lab ID: 0204449-20
Sample ID: Scripps MW-2 45'

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	2980	mg/kg	1	20	9253	9/11/02	SB

Lab ID: 0204449-21
Sample ID: Scripps MW-3 15'

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	390	mg/kg	1	20	9253	9/11/02	SB

Lab ID: 0204449-22
Sample ID: Scripps MW-3 30'

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	2760	mg/kg	1	20	9253	9/11/02	SB

Lab ID: 0204449-23
Sample ID: Scripps MW-3 45'

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	319	mg/kg	1	20	9253	9/11/02	SB

Lab ID: 0204449-24
Sample ID: Scripps MW-4 10'

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	4430	mg/kg	1	20	9253	9/11/02	SB

RL = Reporting Limit N/A = Not Applicable

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Robert Eidson		Order#:	G0204449
Environmental Technology Group, Inc.		Project:	
2540 West Marland		Project Name:	Yates Petroleum
Hobbs, NM 88242		Location:	Artesia, NM

Lab ID: 0204449-25
Sample ID: Scripps MW-4 20'

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	3510	mg/kg	1	20	9253	9/11/02	SB

Lab ID: 0204449-26
Sample ID: Scripps MW-4 42'

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	4080	mg/kg	1	20	9253	9/11/02	SB

Approval: Raland K Tuttle 9-13-02
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

RL = Reporting Limit N/A = Not Applicable

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0204449

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003091-02			<10.0		
TOTAL, C6-C35-mg/kg	0003092-02			<10.0		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003091-03		952	859	90.2%	
CONTROL DUP SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003091-04		952	847	89.%	1.4%
MS SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0204449-08	0	952	828	87.%	
MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0204449-08	0	952	867	91.1%	4.6%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003091-05		1000	849	84.9%	
TOTAL, C6-C35-mg/kg	0003092-05		1000	862	86.2%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204449

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0003097-02			<0.025		
Benzene-mg/kg	0003104-02			<0.025		
Benzene-mg/kg	0003116-02			<0.025		
Ethylbenzene-mg/kg	0003097-02			<0.025		
Ethylbenzene-mg/kg	0003104-02			<0.025		
Ethylbenzene-mg/kg	0003116-02			<0.025		
Toluene-mg/kg	0003097-02			<0.025		
Toluene-mg/kg	0003104-02			<0.025		
Toluene-mg/kg	0003116-02			<0.025		
p/m-Xylene-mg/kg	0003097-02			<0.025		
p/m-Xylene-mg/kg	0003104-02			<0.025		
p/m-Xylene-mg/kg	0003116-02			<0.025		
o-Xylene-mg/kg	0003097-02			<0.025		
o-Xylene-mg/kg	0003104-02			<0.025		
o-Xylene-mg/kg	0003116-02			<0.025		

CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0003104-03		0.1	0.085	85.%	
Ethylbenzene-mg/kg	0003104-03		0.1	0.086	86.%	
Toluene-mg/kg	0003104-03		0.1	0.086	86.%	
p/m-Xylene-mg/kg	0003104-03		0.2	0.178	89.%	
o-Xylene-mg/kg	0003104-03		0.1	0.086	86.%	

CONTROL DUP SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0003104-04		0.1	0.087	87.%	2.3%
Ethylbenzene-mg/kg	0003104-04		0.1	0.089	89.%	3.4%
Toluene-mg/kg	0003104-04		0.1	0.090	90.%	4.5%
p/m-Xylene-mg/kg	0003104-04		0.2	0.185	92.5%	3.9%
o-Xylene-mg/kg	0003104-04		0.1	0.089	89.%	3.4%

MS SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0204447-06	0	0.1	0.090	90.%	
Benzene-mg/kg	0204450-09	0	0.1	0.085	85.%	
Ethylbenzene-mg/kg	0204447-06	0	0.1	0.092	92.%	
Ethylbenzene-mg/kg	0204450-09	0	0.1	0.085	85.%	
Toluene-mg/kg	0204447-06	0	0.1	0.093	93.%	
Toluene-mg/kg	0204450-09	0	0.1	0.085	85.%	
p/m-Xylene-mg/kg	0204447-06	0	0.2	0.190	95.%	
p/m-Xylene-mg/kg	0204450-09	0	0.2	0.178	89.%	
o-Xylene-mg/kg	0204447-06	0	0.1	0.092	92.%	
o-Xylene-mg/kg	0204450-09	0	0.1	0.086	86.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0204447-06	0	0.1	0.087	87.%	3.4%
Benzene-mg/kg	0204450-09	0	0.1	0.087	87.%	2.3%
Ethylbenzene-mg/kg	0204447-06	0	0.1	0.089	89.%	3.3%
Ethylbenzene-mg/kg	0204450-09	0	0.1	0.090	90.%	5.7%
Toluene-mg/kg	0204447-06	0	0.1	0.089	89.%	4.4%
Toluene-mg/kg	0204450-09	0	0.1	0.089	89.%	4.6%
p/m-Xylene-mg/kg	0204447-06	0	0.2	0.184	92.%	3.2%
p/m-Xylene-mg/kg	0204450-09	0	0.2	0.186	93.%	4.4%
o-Xylene-mg/kg	0204447-06	0	0.1	0.089	89.%	3.3%
o-Xylene-mg/kg	0204450-09	0	0.1	0.091	91.%	5.6%

SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0003097-05		0.1	0.088	88.%	
Benzene-mg/kg	0003104-05		0.1	0.104	104.%	
Benzene-mg/kg	0003116-05		0.1	0.103	103.%	
Ethylbenzene-mg/kg	0003097-05		0.1	0.089	89.%	
Ethylbenzene-mg/kg	0003104-05		0.1	0.106	106.%	
Ethylbenzene-mg/kg	0003116-05		0.1	0.107	107.%	
Toluene-mg/kg	0003097-05		0.1	0.090	90.%	
Toluene-mg/kg	0003104-05		0.1	0.107	107.%	
Toluene-mg/kg	0003116-05		0.1	0.107	107.%	
p/m-Xylene-mg/kg	0003097-05		0.2	0.184	92.%	
p/m-Xylene-mg/kg	0003104-05		0.2	0.218	109.%	
p/m-Xylene-mg/kg	0003116-05		0.2	0.221	110.5%	
o-Xylene-mg/kg	0003097-05		0.1	0.089	89.%	
o-Xylene-mg/kg	0003104-05		0.1	0.104	104.%	
o-Xylene-mg/kg	0003116-05		0.1	0.107	107.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0204449

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0003111-01			<20.0		
Chloride-mg/kg	0003112-01			<20.0		
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0204449-01	851	1000	1840	98.9%	
Chloride-mg/kg	0204449-21	390	1000	1400	101.%	
MSD SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0204449-01	851	1000	1830	97.9%	0.5%
Chloride-mg/kg	0204449-21	390	1000	1382	99.2%	1.3%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0003111-04		5000	4960	99.2%	
Chloride-mg/kg	0003112-04		5000	4960	99.2%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

Environmental Technology Group, Inc.
2540 West Marland
Hobbs, NM 88242

Order#: G0204449

Project: Yates Petroleum

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
Williams MW-1 15'	0204449-01	SOIL	08/28/2002	09/06/2002
Williams MW-1 25'	0204449-02	SOIL	08/28/2002	09/06/2002
Williams MW-1 30'	0204449-03	SOIL	08/28/2002	09/06/2002
Williams MW-2 20'	0204449-04	SOIL	08/28/2002	09/06/2002
Williams MW-2 30'	0204449-05	SOIL	08/28/2002	09/06/2002
Lattion MW-1 35'	0204449-06	SOIL	09/03/2002	09/06/2002
Lattion MW-1 58'	0204449-07	SOIL	09/03/2002	09/06/2002
Lattion MW-1 70'	0204449-08	SOIL	09/03/2002	09/06/2002
Lattion MW-2 25'	0204449-09	SOIL	09/03/2002	09/06/2002
Lattion MW-2 55'	0204449-10	SOIL	09/04/2002	09/06/2002
Lattion MW-2 70'	0204449-11	SOIL	09/04/2002	09/06/2002
Lattion MW-3 15'	0204449-12	SOIL	09/04/2002	09/06/2002
Lattion MW-3 35'	0204449-13	SOIL	09/04/2002	09/06/2002
Lattion MW-3 65'	0204449-14	SOIL	09/05/2002	09/06/2002
Lattion MW-4 20'	0204449-15	SOIL	09/04/2002	09/06/2002
Lattion MW-4 45	0204449-16	SOIL	09/05/2002	09/06/2002
Lattion MW-4 55'	0204449-17	SOIL	09/05/2002	09/06/2002
Scripps MW-2 10'	0204449-18	SOIL	08/30/2002	09/06/2002
Scripps MW-2 25'	0204449-19	SOIL	08/30/2002	09/06/2002
Scripps MW-2 45'	0204449-20	SOIL	08/30/2002	09/06/2002
Scripps MW-3 15'	0204449-21	SOIL	08/30/2002	09/06/2002
Scripps MW-3 30'	0204449-22	SOIL	08/30/2002	09/06/2002
Scripps MW-3 45'	0204449-23	SOIL	08/30/2002	09/06/2002
Scripps MW-4 10'	0204449-24	SOIL	08/30/2002	09/06/2002
Scripps MW-4 20'	0204449-25	SOIL	08/30/2002	09/06/2002
Scripps MW-4 42'	0204449-26	SOIL	08/30/2002	09/06/2002

Sample 0204449-25 had a high recovery of one of the surrogates due to coeluting compounds.

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

Environmental Technology Group, Inc.
2540 West Marland
Hobbs, NM 88242

Order#: G0204449

Project: Yates Petroleum

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By: Celandt Tuke Date: 9-13-02

Environmental Lab of Texas I, Ltd.

Environmental Lab of Texas I, Ltd.

600 West I 20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915 563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Robert Carlson
Company Name: LBG
Company Address: 1554 W. Marland
City/State/Zip: Hobbs, NM 88240
Telephone No: (505) 397-2388 Fax No: (505) 397-1701
Sampler Signature: Robert Carlson

Project Name: Yates Petroleum
Project #: YP 3300
Project Loc: Artesia, NM
PO #:

Lab # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: TPH 418.1 (8015M) 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	TOTAL: IR01	RUSH TAT (Pre-Scheduled)	Standard TAT
11	Eatton MW-2 70'	9-4	08:55	1	X									X		X							X			
12	Eatton MW-3 15'	9-4	10:45	1																						
13	Eatton MW-3 35'	9-4	11:26	1																						
14	Eatton MW-3 65'	9-5	12:09	1																						
15	Eatton MW-4 30'	9-4	15:34	1																						
16	Eatton MW-1 45'	9-5	07:57	1																						
17	Eatton MW-4 55'	9-5	09:00	1																						
18	Scripps MW-2 10'	8-30	09:48	1																						
19	Scripps MW-3 25'	8-30	10:26	1																						
20	Scripps MW-3 45'	8-30	11:12	1	↓									↓		↓							↓			

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt:
Laboratory Comments:
ice 0.5°C

Relinquished by	Date	Time	Received by:	Date	Time
Robert Carlson	9-6-02	9:31		9-6-02	9 31
Relinquished by	Date	Time	Received by ELOT:	Date	Time
	9-6-02	10:35		9-6-02	12:38

Coc # 14T 1503

Environmental Lab of Texas I, Ltd.

3300 West I 20 East
Odessa, Texas 79763
Phone: 915 563-1800
Fax: 915 563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Robert Eidson
Company Name: ELOT
Company Address: 3510 E. Co. Marland
City/State/Zip: Hobbs, NM 88240
Telephone No: (505) 397-4882 Fax No: (505) 397-4701
Sampler Signature: Robert Eidson

Project Name: Yates Petroleum
Project #: YA 3300
Project Loc: Artesia, NM
PO #:

Lab # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)	Analyze For: TCLP: TPH 418.1/8015M/1005/1006	TOTAL: Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	PCI	RUSH TAT (Pre-Schedule)	Standard TAT
349-01	Williams MW-1 15'	8-28	10:16	1	X									X		X		X					X			
02	Williams MW-1 25'	8-28	10:34																							
03	Williams MW-1 30'	8-28	10:50																							
04	Williams MW-2 30'	8-28	16:22																							
05	Williams MW-2 30'	8-28	16:51																							
06	Lattion MW-1 35'	9-3	09:59																							
07	Lattion MW-1 58'	9-3	12:11																							
08	Lattion MW-1 70'	9-3	13:15																							
09	Lattion MW-2 35'	9-3	17:12																							
10	Lattion MW-2 55'	9-4	08:01	V	V									V		V		V					V			

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt:
Laboratory Comments:
Rec 0.5°C

Relinquished by:	Date	Time	Received by:	Date	Time
Robert Eidson	9-6-02	9:31		9-6-02	9:31
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
	9-6-02	12:35		9/6/02	12:30

Environmental Lab of Texas, Inc.

12600 West I 20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Robert Eidson
Company Name: ETGT
Company Address: 3300 W. Marland
City/State/Zip: Hobbs, NM 88240
Telephone No: (505) 397-4483 Fax No: (505) 397-4701
Sampler Signature: Robert Eidson

Project Name: Yates Petroleum
Project #: YP 3300
Project Loc: Artesia, NM
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)	Analyze For: TCLP: TDS (Cly SAR / EC)	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030								RUSH TAT (Pre-Schedule)	Standard TAT
21	Snipes MW-3 15'	9-30	11:56	1	X									X		X			X				X									
22	Snipes MW-3 30'	9-30	12:34																													
23	Snipes MW-3 45'	9-30	12:54																													
24	Snipes MW-4 10'	9-30	1448																													
25	Snipes MW-4 30'	9-30	15:04																													
26	Snipes MW-4 42'	9-30	15:47																													

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt:
Laboratory Comments:
Rec 0.5°C

Relinquished by:	Date	Time	Received by:	Date	Time
	9-30	1631		9-30-02	1631
Relinquished by	Date	Time	Received by ELOT	Date	Time
	9-30-02	12:35		9-30-02	1630

ANALYTICAL REPORT

Prepared for:

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Project: Scripp

PO#:

Order#: G0204570

Report Date: 09/30/2002

Certificates
US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240
505-397-4701

Order#: G0204570
Project: YA 2219
Project Name: Scripp
Location: Artesia, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0204570-01	MW 1	WATER	9/19/02 8:50	9/20/02 14:05	See COC	See COC
	Lab Testing:	**Rejected:** No		**Temp:** 3.0 C		
	8021B/5030 BTEX					
	Chloride					
	Total Dissolved Solids (TDS)					
0204570-02	MW 2	WATER	9/19/02 8:30	9/20/02 14:05	See COC	See COC
	Lab Testing:	**Rejected:** No		**Temp:** 3.0 C		
	8021B/5030 BTEX					
	Chloride					
	Total Dissolved Solids (TDS)					
0204570-03	MW 3	WATER	9/19/02 8:00	9/20/02 14:05	See COC	See COC
	Lab Testing:	**Rejected:** No		**Temp:** 3.0 C		
	8021B/5030 BTEX					
	Chloride					
	Total Dissolved Solids (TDS)					
0204570-04	MW 4	WATER	9/19/02 8:20	9/20/02 14:05	See COC	See COC
	Lab Testing:	**Rejected:** No		**Temp:** 3.0 C		
	8021B/5030 BTEX					
	Chloride					
	Total Dissolved Solids (TDS)					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0204570
Project: YA 2219
Project Name: Scripp
Location: Artesia, NM

Lab ID: 0204570-01
Sample ID: MW 1

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003245-02		9/26/02 22:49	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	90%	80	120
Bromofluorobenzene	91%	80	120

Lab ID: 0204570-02
Sample ID: MW 2

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003245-02		9/26/02 23:11	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	87%	80	120
Bromofluorobenzene	88%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0204570
Project: YA 2219
Project Name: Scripp
Location: Artesia, NM

Lab ID: 0204570-03
Sample ID: MW 3

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003245-02		9/26/02 23:33	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	92%	80	120
Bromofluorobenzene	96%	80	120

Lab ID: 0204570-04
Sample ID: MW 4

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003245-02		9/26/02 23:55	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	0.069	0.001
Ethylbenzene	0.008	0.001
Toluene	0.010	0.001
p/m-Xylene	0.007	0.001
o-Xylene	0.009	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	103%	80	120
Bromofluorobenzene	101%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0204570
Project: YA 2219
Project Name: Scripp
Location: Artesia, NM

Approval: Raland K Tuttle 9-30-02
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
E.T.G.I.
2540 WEST MARLAND
HOBBS, NM 88240

Order#: G0204570
Project: YA 2219
Project Name: Scripp
Location: Artesia, NM

Lab ID: 0204570-01
Sample ID: MW 1

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	8150	mg/L	1	5.00	9253	9/24/02	SB
Total Dissolved Solids (TDS)	18400	mg/L	1	5.0	160.1	9/24/02	TAL

Lab ID: 0204570-02
Sample ID: MW 2

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	6560	mg/L	1	5.00	9253	9/24/02	SB
Total Dissolved Solids (TDS)	14800	mg/L	1	5.0	160.1	9/24/02	TAL

Lab ID: 0204570-03
Sample ID: MW 3

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	4700	mg/L	1	5.00	9253	9/24/02	SB
Total Dissolved Solids (TDS)	10700	mg/L	1	5.0	160.1	9/24/02	TAL

Lab ID: 0204570-04
Sample ID: MW 4

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	38100	mg/L	1	5.00	9253	9/24/02	SB
Total Dissolved Solids (TDS)	57400	mg/L	1	5.0	160.1	9/24/02	TAL

Approval: Raland K Tuttle 9-30-02
Raland K. Tuttle, Lab Director, QA Officer — Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

RL = Reporting Limit N/A = Not Applicable

ENVIRONMENTAL LAB OF TEXAS I, LTD. 12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204570

BLANK WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L	0003245-02			<0.001		
Ethylbenzene-mg/L	0003245-02			<0.001		
Toluene-mg/L	0003245-02			<0.001		
p/m-Xylene-mg/L	0003245-02			<0.001		
o-Xylene-mg/L	0003245-02			<0.001		
MS WATER	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/L	0204610-04	0	0.1	0.096	96.%	
Ethylbenzene-mg/L	0204610-04	0	0.1	0.098	98.%	
Toluene-mg/L	0204610-04	0	0.1	0.100	100.%	
p/m-Xylene-mg/L	0204610-04	0	0.2	0.208	104.%	
o-Xylene-mg/L	0204610-04	0	0.1	0.098	98.%	
MSD WATER	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/L	0204610-04	0	0.1	0.102	102.%	6.1%
Ethylbenzene-mg/L	0204610-04	0	0.1	0.104	104.%	5.9%
Toluene-mg/L	0204610-04	0	0.1	0.105	105.%	4.9%
p/m-Xylene-mg/L	0204610-04	0	0.2	0.221	110.5%	6.1%
o-Xylene-mg/L	0204610-04	0	0.1	0.105	105.%	6.9%
SRM WATER	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/L	0003245-05		0.1	0.095	95.%	
Ethylbenzene-mg/L	0003245-05		0.1	0.097	97.%	
Toluene-mg/L	0003245-05		0.1	0.098	98.%	
p/m-Xylene-mg/L	0003245-05		0.2	0.207	103.5%	
o-Xylene-mg/L	0003245-05		0.1	0.098	98.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0204570

BLANK WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L	0003215-01			<5.00		
Total Dissolved Solids (TDS)-mg/L	0003224-01			<5.0		
DUPLICATE WATER	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Total Dissolved Solids (TDS)-mg/L	0204570-01	18400		18300		0.5%
MS WATER	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/L	0204560-01	425	500	922	99.4%	
MSD WATER	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/L	0204560-01	425	500	913	97.6%	1.%
SRM WATER	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/L	0003215-04		5000	4960	99.2%	

COC: 758

Environmental Lab of Texas, Inc.

12600 West I 20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: KEN DUTTON
Company Name: E T G I
Company Address: 2540 W MARLAND
City/State/Zip: HOBBS NM 88240
Telephone No: (505) 397-4882
Fax No: (505) 397-4701
Sampler Signature: Simon Casas

Project Name: SCRIPP
Project #: YA 2219
Project Loc: ARTESIA, NM
PO #:

0204570

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl 40 ML	NaOH	H2SO4	None 1,5 HDPE	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)	Analyze For: TCLP: TCL SVOA / VOC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021 B	BUSH TAT (Pre-Schedule)	Standard TAT
01	MW 1	9/19/02	0850	3	X		X			X		X				X							X		
02	MW 2		0830																						
03	MW 3		0800																						
04	MW 4		0820																						

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 3.0 °C
Laboratory Comments:

Relinquished by	Date	Time	Received by	Date	Time
Simon Casas	9/20/02	1100	Maria Campos	9/20/02	1100
Maria Campos	9/20/02	1405	Received by ELOT: Cilly Keal	9/20/02	14:05

Appendix C

Water Well Search

RA 03217	nul	0	DONALD E. FANNING	RA 03217		18S	26E	25	1 1		13	561704	362(
RA 03409	DOM	3	SANDRA TERRY	RA 03409	Shallow	18S	26E	24	2 4 1		13	562804	362:
RA 03409 REPAR	DOM	3	SANDERS TERRY	RA 03409 REPAR	Shallow	18S	26E	24	2 4 2		13	563004	362:
RA 03750	STK	3	PAUL & JOHNNIE ROGERS	RA 03750	Shallow	18S	26E	24	4 3		13	562508	362:
RA 03900	DOM	3	PAUL & JOHNNIE ROGERS	RA 03900	Artesian	18S	26E	24	1 3 1		13	561600	362:
RA 03968	DOM	3	SANDERS TERRY	RA 03968		18S	26E	24	2 2 1		13	562801	362:
RA 04018	OBS	0	E. P. CAMPBELL	RA 04018		18S	26E	26	4 3 3		13	560807	361!
RA 04022	OBS	0	E. P. CAMPBELL	RA 04022	Artesian	18S	26E	35	1 2		13	560511	361!
RA 05237	DOM	3	QUENTIN ROGERS	RA 05237		18S	26E	23	2 1 3		13	560798	362:
RA 06979	PRO	0	YATES PETROLEUM CORPORATION	RA 06979		18S	26E	25	1 1		13	561704	362(
RA 07219	MUL	3	ROBERT LYNN BARNES	RA 07219	Shallow	18S	26E	26	4		13	561109	361!
RA 07242 -EXPL	DOM	3	HUBERT C. GREEN	RA 07242 -EXPL	Shallow	18S	26E	26	4 3		13	560908	361!
RA 07242 EXP	EXP	0	HUBERT C. GREEN	RA 07242 EXP	Shallow	18S	26E	26	4 3		13	560908	361!
RA 07243 -EXPL	DOM	3	HUBERT C. GREEN	RA 07243 -EXPL	Shallow	18S	26E	26	4 3		13	560908	361!
RA 07243 EXP	nul	0	HUBERT C. GREEN	RA 07243 EXP	Shallow	18S	26E	26	4 3		13	560908	361!
RA 07243 EXPL	DOM	3	HUBERT C. GREEN	RA 07243 EXPL	Shallow	18S	26E	26	4 3		13	560908	361!
RA 09207	NOT	3	GREGORY IRMA	RA 09207	Shallow	18S	26E	35	3 4 2		13	560625	361'
RA 09208	NOT	3	GREGORY IRMA	RA 09208	Shallow	18S	26E	35	3 4 2		13	560625	361'
RA 09209	NOT	3	GREGORY IRMA	RA 09209	Shallow	18S	26E	35	3 4 2		13	560625	361'
RA 09210	NOT	3	GREGORY IRMA	RA 09210	Shallow	18S	26E	35	3 4 2		13	560625	361'
RA 09211	NOT	3	GREGORY IRMA	RA 09211	Shallow	18S	26E	35	3 4 4		13	560625	361'
RA 09212	NOT	3	GREGORY IRMA	RA 09212	Shallow	18S	26E	35	3 4 4		13	560625	361'
RA 09213	DOM	3	GREGORY IRMA	RA 09213	Shallow	18S	26E	35	3 4 4		13	560625	361'
RA 09214	NOT	3	GREGORY IRMA	RA 09214	Shallow	18S	26E	35	3 4 4		13	560625	361'
RA 09374	PRO	0	H&S OIL LLC	RA 09374	Shallow	18S	26E	25	1 1 2		13	561803	362(
RA 09874	DOM	3	MELLISA DUNCAN	RA 09874		18S	26E	35	1 2		13	560511	361!

Record Count: 48

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 18S Range: 26E Sections: 23,24,25,26,35,36

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○ Non-Domestic ○ Domestic ◉ All

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WELL / SURFACE DATA REPORT 06/04/2003

(acre ft per annum) (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) X Y are in Feet UTM are in Meters)

DB File Nbr	Use	Diversion	Owner	Well Number	Source	Tws	Rng	Sec	q	q	q	Zone	X	Y	UTM Zone	Easting	Northl
RA 00297	IRR	1188.25	CHARLES MARTIN, INC.	RA 01296	Shallow	18S	26E	23	1	3	3				13	559997	362
				RA 01296 S	Shallow	18S	26E	23	3	1	1				13	559998	362
				RA 01296 S2	Shallow	18S	26E	23	1	3	2				13	560197	362
RA 00773	DOM	3	J.B. SMITH	RA 00773		18S	26E	23	2	1					13	560899	362
RA 00774	DOM	3	TOM LATTION	RA 00774		18S	26E	23	2	1					13	560899	362
RA 00775	DOM	0	BOARD OF REGENTS	RA 00775		18S	26E	23	2	1					13	556755	362
RA 00779	IRR	2832.2	DONALD FANNING AND SONS, INC.	RA 01524 S7	Shallow	18S	26E	25	1	1	1				13	561603	362
RA 00827	IRR	344.225	NEW MEXICO STATE UNIVERSITY	RA 00775		18S	26E	23	2	1					13	556755	362
RA 01144	DOM	0	CHARIES R. MARTIN	RA 01144 -S	Artesian	18S	26E	23	1	3					13	560098	362
RA 01210	IRR	673.75	ROGERS, INC.	RA 01210	Shallow	18S	26E	23	3	3	2				13	560199	362
				RA 01210 S	Shallow	18S	26E	23	2	2	1				13	561199	362
RA 01296	IRR	1067.15	CHARLES MARTIN INC.	RA 01296	Shallow	18S	26E	23	1	3	3				13	559997	362
				RA 01296 S	Shallow	18S	26E	23	3	1	1				13	559998	362
				RA 01296 S2	Shallow	18S	26E	23	1	3	2				13	560197	362
RA 01446 A	nul	0	CHARLES MARTIN	RA 01446 A		18S	26E	23	1	3	1				13	559997	362
RA 01881	PRO	0	BASSETT & BIRNEY ET AL	RA 01881		18S	26E	26	3	3					13	560105	361
RA 02132	nul	0	X	RA 02132		18S	26E	23	2	1	1				13	560798	362
RA 02132 B	IRR	866.6	BOB MORGAN	RA 02132 B	Shallow	18S	26E	24	1	2	1				13	562000	362
				RA 02132 BS		18S	26E	24	1	3	1				13	561600	362
				RA 02132 BS2	Shallow	18S	26E	24	1	1	3				13	561600	362
				RA 02132 BS3	Shallow	18S	26E	24	1	3	1				13	561600	362
RA 02627	PRO	3	SIMMS & RESSE OIL CO	RA 02627	Shallow	18S	26E	35	2	2	1				13	561215	361

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 18S Range: 26E Sections: 23,24,25,26,35,36

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) C Non-Domestic C Domestic ◉ All

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AVERAGE DEPTH OF WATER REPORT 06/04/2003

							(Depth Water in Feet)		
Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
RA	18S	26E	23				2	70	80	75
RA	18S	26E	24				4	18	90	40
RA	18S	26E	26				6	50	55	52
RA	18S	26E	35				9	40	50	46

Record Count: 21

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 18S Range: 27E Sections: 19,30,31

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○ Non-Domestic ○ Domestic ◉ All

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WELL / SURFACE DATA REPORT 06/04/2003

(acre ft per annum) (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) X Y are in Feet UTM are in Meters)

DB File Nbr	Use	Diversion	Owner	Well Number	Source	Tws	Rng	Sec	q	q	q	Zone	X	Y	UTM Zone	Easting	Northl
RA 04298	OBS	0	LEE DRILLING CO	RA 04298	Shallow	18S	27E	19	2	1					13	564133	362:
RA 05660	PRO	0	INC. READ & STEVENS	RA 05660	Shallow	18S	27E	31	4	3					13	564140	361'

Record Count: 2

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 18S Range: 27E Sections: 19,30,31

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) C Non-Domestic C Domestic C All

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AVERAGE DEPTH OF WATER REPORT 06/04/2003

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet) Min	Max	Avg
RA	18S	27E	31				1	65	65	65

Record Count: 1