Received by OCD: 4/1/2020/12:00:08 AM Form C-141 State of New Mexico

Oil Conservation Division

Page 1	of	11	6
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Incident ID	
District RP	IRP-732
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

<u>Closure Report Attachment Checklist</u> : Each of the following a	items must be included in the closure report.
\square A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos	s of the liner integrity if applicable (Note: appropriate OCD District office
must be notified 2 days prior to liner inspection).	
Laboratory analyses of final sampling (Note: appropriate OD Description of remediation activities	C District office must be notified 2 days prior to final sampling)
I hereby certify that the information given above is true and complete	ete to the best of my knowledge and understand that pursuant to OCD rules
	in release notifications and perform corrective actions for releases which
	f a C-141 report by the OCD does not relieve the operator of liability
should their operations have failed to adequately investigate and re human health or the environment. In addition, OCD acceptance of	mediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for
compliance with any other federal, state, or local laws and/or regul	ations. The responsible party acknowledges they must substantially
restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the C	
accordance with 19.15.29.15 NMAC including notification to the C	CD when reclamation and re-vegetation are complete.
Printed Name: Amy Barnhill	Title: Waste and Water Specialist
Signature:	Date: 3-27-2020
email: <u>ABarnhill@chevron.com</u>	Telephone: <u>432-687-7108</u>
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsible party	of liability should their operations have failed to adequately investigate and
	water, human health, or the environment nor does not relieve the responsible
party of compliance with any other federal, state, or local laws and	for regulations.
Closure Approved by: Bradford Billings	0/00/0000
Closure Approved by:	Date: <u>3/22/2022</u>
Printed Name: Bradford Billings	Envi.Spec.A

CLOSURE REPORT

Former McKinley Lease

NMOCD RP Number: 1RP-732 Soil Remediation at a former Oilfield Production Facility Lea County, New Mexico Site Location: UL-A, Sec-30, T-18S, R-38E

> Prepared for: Chevron USA Inc 6301 Deauville Blvd Midland, Texas 79706

> > Prepared By: Amy Barnhill



27 March, 2020New Mexico Oil Conservation Division1625 North French DriveHobbs, New Mexico 88240

RE: Closure Report Chevron USA – Former McKinley Lease UL-A, Sec-30, T-18S, R-38E NMOCD 1RP-732

To Whom it May Concern:

On behalf of Chevron USA (Chevron), this *Closure Report* for the above referenced Site is submitted.

Activities were initiated to bring the impacted area into conformance with NMOCD requirements. For clarity and cross reference purposes, the following Letter Closure Report offers Background History as to:

A Denial by NMOCD dated 4-22-2003 with attached Soil Sampling Results and Remediation Activities including Tables, Maps and Analytical Results

Soil and Groundwater Sample Results dated 5-14-2003

Excavation Backfill Results dated 8-9-2004

A Closure Approval dated 8-16-2005 by the NMOCD.

Please accept these documents as proof of Delineation and Remediation and grant closure based on the Closure Approval Attached hear in.

April 22, 2003

Mark Larson Larson & Associates, Inc. 507 North Marienfeld, Suite 202 Midland, TX 79701

Re: Texaco McKinley Lease Site Location: UL-A, Sec 30-T18S-R38E Dated: April 7, 2003

Dear Mr. Larson,

New Mexico Oil Conservation Division (OCD) received the closure proposal and request to backfill. The proposal is denied

There is insufficient data presented as follows:

The borehole investigation data between 31ft and 50 ft. are required and the drilling log between 31 and 50 ft. is incomplete.

Sincerely,

Can benly

Paul Sheeley-Environmental Engineer Cc: Roger Anderson - Environmental Bureau Chief Chris Williams - District I Supervisor William Olson - OCD Hydrologist Larry Johnson - Environmental Engineer



科33

April 7, 2003

VIA FACSIMILE: (505) 393-0720

Mr. Paul R. Sheeley New Mexico Oil Conservation Division 1625 N. French Drive Hobbs, New Mexico 88240

Re: Soil Sample Results, Former M^cKinley Lease Production Facility, UL A, Section 30, Township 18 South, Range 38 East, Lea County, New Mexico

Dear Mr. Sheeley:

ChevronTexaco Exploration and Production Company (ChevronTexaco), as successor to Texaco Exploration and Production Inc. (Texaco), has retained Larson and Associates, Inc. (LA) to supervise remediation of soil at a former oilfield production facility (Site) once operated by Texaco on the McKinley Lease in Unit Letter A (NE/4 NE/4), Section 30, Township 18 South, Range 38 East, Lea County, New Mexico. Figure 1 presents a location and topographic map.

A remediation work plan was submitted to the New Mexico Oil Conservation Division (NMOCD) on January 28, 2002, and proposed to excavate soil at three locations to achieve the NMOCD Recommended Remediation Action Level (RRAL) of 100 milligrams per kilogram (mg/kg) total petroleum hydrocarbon (TPH). Following excavation of approximately 7,288 cubic yards of soil from the three locations (Hole #1, Hole #2 and Hole #3), a Final Remediation Report was submitted to the NMOCD on June 11, 2002. The NMOCD denied closure since a soil sample from the bottom of Hole #3 was above the NMOCD recommended remediation action level (RRAL) of 100 The NMOCD also requested that Texaco investigate an area between the mg/kg. excavations (Hole #2 and Hole #3) since a sample from BH-3 from 20 to 21 feet below ground surface (BGS) reported TPH at 82 mg/kg (below the RRAL).

Results of additional samples of 100 mg/kg, were presented to the NMOCD main letter also stated that Holes #1, #2 and #3 would be filled with com-boring would be drilled between BH-3 and BH-4, to a depth of approximately 25 rect below ground surface (bgs). The NMOCD approved the work plan in a letter thated october 9, 2002, with two requests as follows:

- The OCD be notified 48 hours in advance of any sampling event.

Mr. Paul R. Sheeley April 7, 2003 Page 2

Appendix A provides copies of NMOCD correspondence.

Environmental Plus, Inc. (EPI) was retained to fill the excavations with clean soil, and began backfilling Hole #1 and Hole #2 on October 14, 2002. Backfilling was also stopped on that date, when NMOCD personnel visited the Site and observed additional soil staining at the north end of Hole #2. ChevronTexaco was required to investigate and remediate as necessary the soil staining north of Hole #2.

The NMOCD has established remediation action levels (RRAL) for benzene, total BTEX and TPH in soil ("Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993"). Remediation levels for benzene, total BTEX and TPH were calculated for the Site using the following NMOCD criteria:

Criteria	Result	Ranking Score
Depth-to-Groundwater	<50 feet	20
Wellhead Protection Area	No	0
Distance to Surface Water Body	>1000 Feet	0
		Total: 20

Based on the total ranking score above, the following RRALs were assigned to the Site based on NMOCD criteria:

Benzene	10 mg/kg
Total BTEX	50 mg/kg
TPH	100 mg/kg

Remediation Activities

On December 5, 2003, soil boring BH-13 was drilled between the two excavations (Hole #2 and Hole #3) and south of BH-3 and BH-4. The boring was drilled by Scarborough Drilling, Inc. of Lamesa, Texas, utilizing an air rotary drilling rig. Figure 2 shows the location of excavations (Holes #1, 2 and 3) and soil borings BH-1 through BH-13. BH-12 is located north of the Site and is not shown on Figure 2.

Soil samples were collected at ground surface, and approximately every five (5) feet bgs, thereafter, using a split-spoon sampler. The split-spoon sampler was thoroughly washed between sample events. Drill cuttings were placed on the ground adjacent to the boring. The soil samples were placed in clean glass sample jars, labeled, chilled in an ice chest, and delivered under chain-of-custody control to Environmental Lab of Texas I, Ltd., located in Odessa, Texas. A portion of each sample was also placed in a clean glass sample jar for headspace analysis. The headspace jars were filled approximately ³/₄ full,

Mr. Paul R. Sheeley April 7, 2003 Page 3

and a layer of aluminum foil was placed over the opening of the jar before replacing the cap. The headspace samples were allowed to reach ambient temperature before a RAE Instruments, Model 2000 photoionization detector (PID) was used to measure the concentration of organic vapors in the headspace of the sample jars. The PID probe was inserted into the headspace of the sample jars (through the aluminum foil), and the concentration of organic vapors was displayed by the instrument in parts per million (ppm). The NMOCD allows a PID measurement of less than 100 ppm to be used as a substitute for laboratory analysis of benzene and total benzene, toluene, ethylbenzene and xylenes (collectively referred to as BTEX). However, the PID measurement cannot be used as a substitute for total petroleum hydrocarbon (TPH) analysis by a laboratory. Samples from the surface and approximately every ten (10) feet bgs were analyzed for TPH by EPA method SW-846-8015 for gasoline range organics (GRO) and diesel range organics (DRO).

On October 15, 2002, EPI began to excavate soil from the north end of Hole #2. As remediation activities progressed to the north, soil samples were taken from the bottom and sides of the excavation. Soil samples were collected on December 30, 2002, January 2, 2003, February 7, 2003, February 13, 2003 and March 31, 2003, until laboratory analyses of soil samples from the sides and bottom of the excavation reported TPH values below 100 mg/kg. The final excavation, extending from the north boundary of Hole #2, measured approximately 130 x 70 feet, and was excavated to a maximum depth of 29 feet bgs. The impacted soil was transported to ChevronTexaco's centralized waste management facility (landfarm) located northwest of Jal, New Mexico. The final soil samples from the bottom and sides of the excavation reported TPH (DRO and GRO) levels below 100 mg/kg. The sample results are presented on Table 2. Figures 3, 4 and 5 present Site drawings showing the excavation boundary, sample locations and TPH concentrations from each sampling event.

Soil Boring Results

All samples collected from BH-13 exhibited a total TPH of less than ten (<10.0) mg/kg except the sample from approximately 20-21 feet bgs, which resulted in a DRO concentration of 190 mg/kg. Table 1 presents a summary of headspace and TPH analyses of soil samples from BH-13. Figure 2 shows the location of BH-13. Appendix B provides the boring log. Appendix C provides laboratory and chain-of-custody documentation. Appendix D presents photographs of the soil boring installation. The boring was filled with bentonite chips and hydrated with potable water upon completion of drilling.

Remediation Results

Only one sample (SS-9, North Bottom, 9') exhibited PID readings above 100 ppm (381.0 ppm) and was analyzed for BTEX using EPA method SW-846-8021B. Referring to Table 2, benzene was reported below the detection limit of 0.025 mg/kg and total BTEX was reported at 8.864 mg/kg. The results were below the RRAL for benzene (10 mg/kg)

Mr. Paul R. Sheeley April 7, 2003 Page 4

and total BTEX (50 mg/kg). All samples were analyzed for TPH by EPA method SW-846-8015 for gasoline range organics (GRO) and diesel range organics (DRO). The concentrations of TPH in the final samples from the bottom and sides of the excavation were below the RRAL for TPH of 100 mg/kg. Table 2 provides a summary of headspace and laboratory results following excavation. Figures 3, 4 and 5 present Site drawings showing the excavation boundary, sample locations and TPH concentrations from each sampling event. Appendix C provides laboratory and chain-of-custody documentation. Appendix D presents photographs of the excavation.

Approximately 8,156 cubic yards (yd^{3}) of impacted soil was transferred to ChevronTexaco's landfarm since October 31, 2002. Approximately 9,892 yd³ of clean soil was transported to the Site, and has been stockpiled. ChevronTexaco requests the NMOCD allow it to fill the excavations. The excavations will be filled with clean soil, and a final letter will be submitted to the NMOCD upon completion. Please call Mr. Scott Toner with ChevronTexaco at (915) 687-7318 or myself at (915) 687-0901 if you have questions.

Sincerely, Larson and Associates, Inc.

indig K. (sain

Cindy K Crain Geologist

Encl.

cc: Scott Toner, ChevronTexaco William Olson, OCD Hydrologist Received by OCD: 4/1/2020(12:00:08 AM

TABLES

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Table 1:Summary of Headspace and Laboratory Analysis of Soil Samples
Texaco Exploration and Production Inc., McKinley Lease
NE/4, NE/4, Section 30, Township 18 South, Range 38 East
Lea County, New Mexico

Borehole Number	Sample Date	Sample Depth	PID (ppm)	GRO C6-C12	DRO >C12-C35	TPH (C6-C35)
		(feet BGS)		mg/kg	mg/kg	mg/kg
RRAL						100
BH-13	12/5/2002	0-1	1	<10.0	<10.0	<10.0
		10-11	1	<10.0	<10.0	<10.0
		20-21	6.1	<10.0	190.0	190.0
		30-31	5.5	<10.0	<10.0	<10.0
		50-51	3.1	<10.0	<10.0	<10.0

Notes: All analyses performed by Environmental Lab of Texas, Inc., Midland, Texas

- 1. BGS: Depth in feet below ground surface
- 2. PID: Photoionization detector
- 3. ppm: Parts per million
- 4. GRO: Gasoline-range organics
- 5. DRO: Diesel-range organics
- 6. TPH: Total petroleum hydrocarbons (Sum of GRO + DRO)
- 7. mg/kg Milligrams per kilogram
- 8. ---: No data available
- 9. <: Below method detection limit
- 10. RRAL: NMOCD Recommended Remediation

Summary of Headspace and Laboratory Analysis of Soil Samples Following Excavation NE/4, NE/4, Section 30, Township 18 South, Range 38 East **Fexaco Exploration and Production Inc., McKinley Lease** Lea County, New Mexico Table 2:

Chloride (mg/kg) 250 1 1 1 Page 1 of 2 4,178.0 14,330.0 1,740.0 (C6-C35) 3,970.0 mg/kg 234.6 199.0 113.0 <10.0 <10.0 146.0 <10.0 <10.0 900.0 <10.0 176.0 <10.0 316.3 <10.0 <10.0 <10.0 <10.0 <10.0 49.3 TPH 100 >C12-C35 4,050.0 1,740.0 3,970.0 12,800.0 <10.0 900.0 mg/kg <10.0 <10.0 216.0 199.0 113.0 <10.0 146.0 <10.0 176.0 264.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 DRO 49.3 C6-C12 1,530.0 mg/kg <10.0 18.6 <10.0 <10.0 128.0 GRO <10.0 <10.0 <100 <10.0 <100 <10.0 <10.0 52.3 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <100 mg/kg BTEX 8.864 Total 20 l I l Benzene mg/kg <0.025 9 1 I (mqq) 381.0 17.4 12.2 Did 6.6 0.0 15.4 0.1 0.0 0.0 0.9 0.4 0.0 <u>з</u>.8 1.5 6.9 0.1 0.0 0.1 2.1 I Depth (feet Sample BGS) 29 16 17 യത œ σ ð σ 8 ~ 01/02/03 01/02/03 01/02/03 01/02/03 Sample 12/30/02 01/02/03 01/02/03 01/02/03 01/02/03 01/02/03 01/02/03 01/02/03 01/02/03 01/02/03 01/02/03 01/02/03 01/02/03 01/02/03 01/02/03 01/02/03 01/02/03 01/02/03 01/02/03 Date Location of Sample **Bottom Center** Vorth Bottom Vorth Bottom North Bottom Vorth Bottom North Wall West Wall West Wall West Wall South Wall South Wall East Wall West Wall East Wali East Wall East Wall East Wall East Wall West Wall West Wall Bottom Bottom Bottom RRAL Sample Number SS-10 SS-12 **SS-13** SS-14 SS-15 SS-16 SS-17 SS-18 SS-19 SS-11 SS-20 SS-1 SS-3 SS-5 SS-6 SS-7 SS-8 6-SS SS-21 SS-22 SS-23 SS-2 SS-4

Table 2: Summary of Headspace and Laboratory Analysis of Soil Samples Following Excavation	Texaco Exploration and Production Inc., McKinley Lease	NE/4, NE/4, Section 30, Township 18 South, Range 38 East	Lea County. New Mexico
Table 2:			

Released to Imaging: 3/22/2022 3:05:10 PM

Sample	Location of Sample	Sample	Sample	DłD	Benzene	Total	GRO	DRO	HdT	Chloride
Number		Date	Depth (feet BGS)	(mqq)	mg/kg	BTEX mg/kg	C6-C12 mg/kg	>C12-C35 mg/kg	(C6-C35) mg/kg	(mg/kg)
RRAL					6	8			100	250
SS-24	West Wall	02/07/03	10	1.2		1	<10.0	<10.0	<10.0	44.3
SS-25	West Wall	02/07/03	19	0.3	I	1	<10.0	<10.0	<10.0	324
SS-26	West Wall	02/07/03	7	1.7	I	-	<10.0	<10.0	<10.0	<20.0
SS-27	West Wall	02/07/03	7	1.5		1	<10.0	<10.0	<10.0	<20.0
SS-28	Bottom	02/07/03	20	1.3	-	1	<10.0	<10.0	<10.0	177
SS-29	Bottom	02/07/03	18	1.4		1	<10.0	<10.0	<10.0	<20.0
SS-30	Bottom	02/07/03	18	5.7		1	<10.0	85.1	85.1	88.6
SS-31	Bottom	02/07/03	15	3.8		-	<10.0	<10.0	<10.0	59.1
SS-32	North Wall	02/07/03	8	2.0	I	ł	<10.0	430.0	430.0	103
SS-33	Bottom	02/07/03	11	16.3	1	I	<10.0	<10.0	<10.0	295
SS-34	East Wall	02/07/03	8	1.4	-	I	<10.0	159.0	159.0	59.1
SS-35	North Bottom	02/13/03	9.5	1.1	I	1	<10.0	<10.0	<10.0	73.8
SS-36	North Side	02/13/03	0	0.1	ł	ł	<10.0	<10.0	<10.0	88.6
SS-37	Northeast Side	02/13/03	o	0.1	l	ł	<10.0	<10.0	<10.0	118
SS-38	East Wall	03/31/03	8	0.1		-	<10.0	<10.0	<10.0	-

All analyses performed by Environmental Lab of Texas, Inc., Midland, Texas Notes:

Depth in feet below ground surface

Photoionization detector 1. BGS: 2. PID:

Parts per million ppm: ю

Gasoline-range organics 4, GRO: 5, DRO: 6. TPH: 7. mg/kg: 8. --:

Diesel-range organics

Total petroleum hydrocarbons (Sum of GRO + DRO)

Milligrams per kilogram

No data available

Below method detection limit .∨ 0.

NMOCD Recommended Remediation Action Level 10. RRAL:

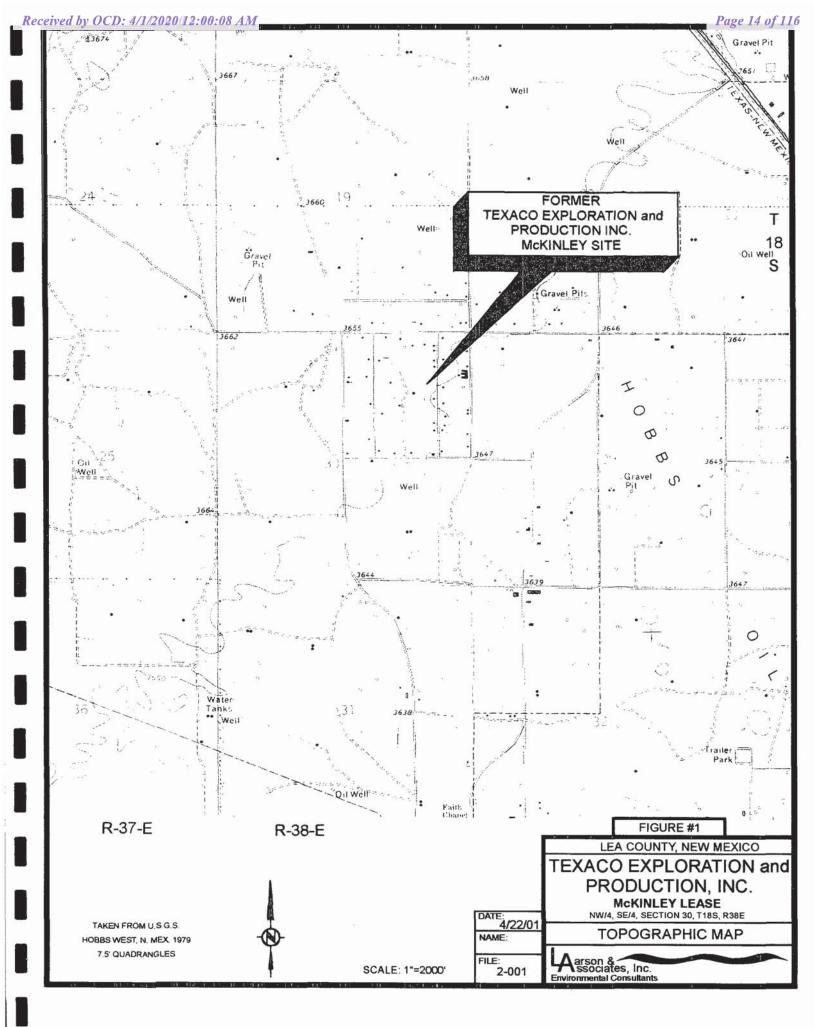
Page 2 of 2

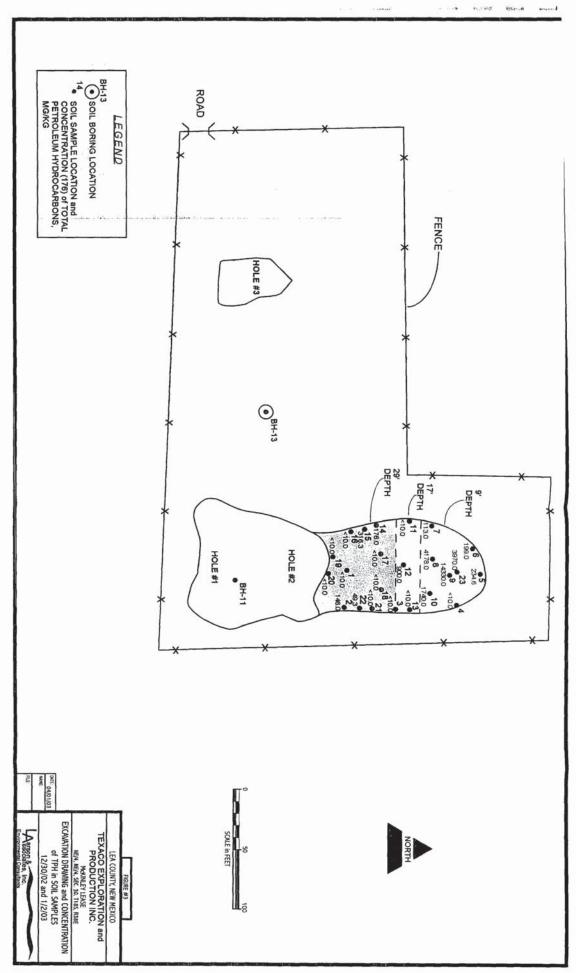
Received by OCD: 4/1/2020 12:00:08 AM

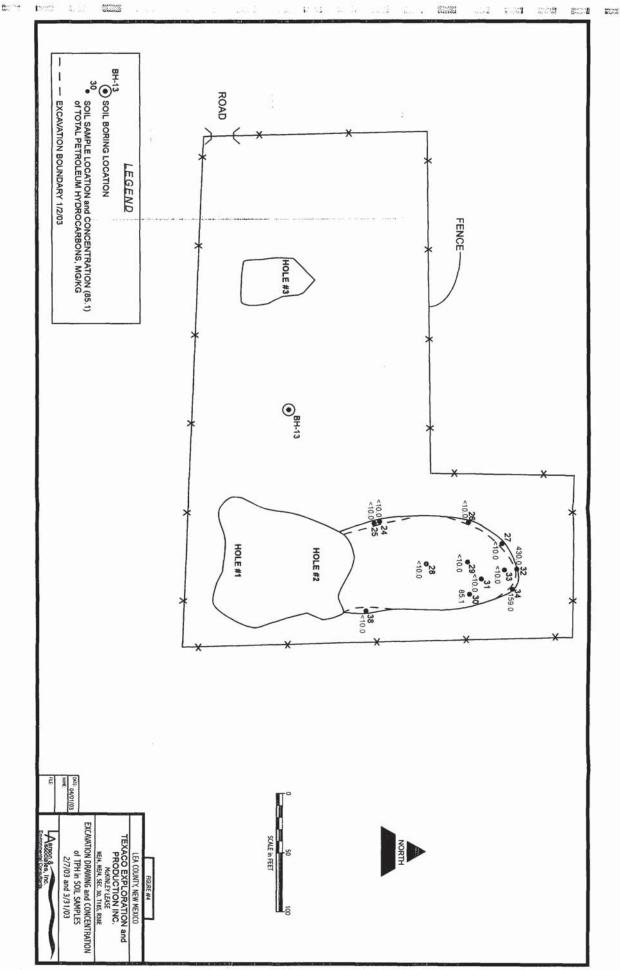
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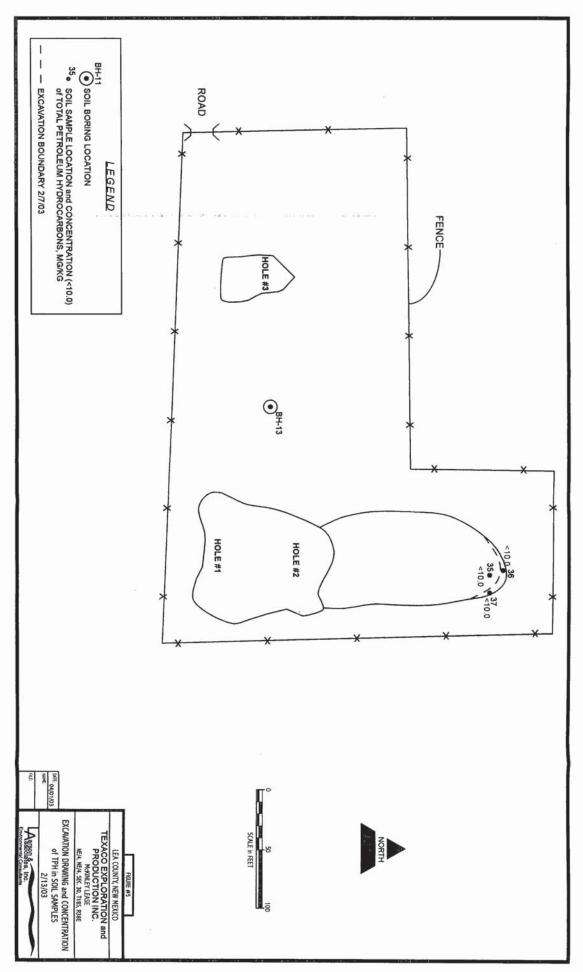
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FIGURES









Received by OCD: 4/1/2020(12:00:08 AM

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APPPENDIX A

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NMOCD CORRESPONDENCE



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON Governor Betty Rivera Cabinet Secretary Lori Wrotenbery Director Oil Conservation Division

September 6, 2002

Mark Larson Larson & Associates, Inc. 507 North Marienfeld, Suite 202 Midland, TX 79701

Re: Closure Proposal Texaco McKinley Lease-(Jim Davis) Site Location: UL-A, Sec 30-T18S-R38E Dated: June 11, 2002, Supplement July 19, 2002

Dear Mr. Larson,

The New Mexico Oil Conservation Division (OCD) hereby denies your closure plan proposal referenced above. Samples from excavation hole #3 exceed OCD criteria of 100 ppm TPH.

Borehole #3 and #4 are located alone between excavations. #3 indicates TPH contamination, (Work Plan dated January 28, 2002). The lab sample for borehole #3 at 21 feet shows contamination. OCD requires Texaco to investigate in between excavation holes.

If you have any questions or need any assistance please feel free to contact me at (505) 393-6161 x113 or email: psheeeley@state.nm.us

Sincerely

Paul Sheeley-Environmental Engineer Cc: Roger Anderson - Environmental Bureau Chief Chris Williams - District I Supervisor William Olson - OCD Hydrologist Larry Johnson - Environmental Engineer



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON Governor Betty Rivera Cabinet Secretary Lori Wrotenbery Director Oil Conservation Division

October 9, 2002

Mark Larson Larson & Associates, Inc. 507 North Marienfeld, Suite 202 Midland, TX 79701

Re: Texaco McKinley Lease-(Jim Davis) Site Location: UL-A, Sec 30-T18S-R38E Dated: September 20, 2002

Dear Mr. Larson,

New Mexico Oil Conservation Division (OCD) received your modified work plan letter including the August 27, 2002 bottom hole sample analysis data for the site referenced above. The OCD hereby approves the plan and includes the following:

- 1. ChevronTexaco shall extend the proposed 25 foot boring to approximately 40-45 feet below ground surface, to investigate the vadose zone between the existing excavations at the site and demonstrate that contaminants have not reached the groundwater.
- ChevronTexaco shall notify the OCD 48 hours in advance of any sampling event to allow OCD the option to split samples and witness activities.

Please be advised that OCD approval of this plan does not relieve ChevronTexaco of liability should their operations fail to adequately investigate and remediate contaminants that threaten ground water, surface water, human health or the environment. In addition, OCD approval does not relieve ChevronTexaco of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you have any questions or need assistance please write or call: (505) 393-6161, ext. 113, or e-mail: psheeeley@state.nm.us

Sincerely,

Paul Sheeley-Environmental Engineer Cc: Roger Anderson - Environmental Bureau Chief Chris Williams - District I Supervisor William Olson - OCD Hydrologist Larry Johnson - Environmental Engineer •

APPENDIX B

BORING LOG

Client: Texaco E&P

Project: Davis Property (McKinley Lease)

Project No: 2-0100

Location: SW/4, NE/4, Section 30, T18S, R38E, Lea Co., NM

Log of Borehole: BH-13

Geologist: Cindy K. Crain

Page: 1 of 1

	SI	JBSURFACE PROFILE		SA	MP	LE		
Depth	Symbol	Description		Number	Type	Recovery	PID Measurement (PPM) 2 4 6	Lab Analysis
0-		Ground Surface					1.0	0 - 1' bgs
-		Sandy, Clayey Silt		1			1	GRO: <10.0 mg/kg
		7.5 YR 7/4, pink quartz sand, very fine grained, very poorty sorted, medium de	ensity.					DRO: <10.0 mg/kg
5-			F	2			1.3	Total TPH: <10.0 mg/kg
- - 10- -		Silty Sand 5 YR 7/4 to 7/6, pink to reddish yellow sand, very fine grained, poorty sorted,	quartz loose.	3			1.0	10 - 11' bgs GRO: <10.0 mg/kg
-		Caliche						DRO: <10.0 mg/kg
15		10 YR 8/2, very pale brown quartz sar fine grained, very poorty sorted, indura Contains some quartzite.	nd, very ated.	4			0.8	Total TPH: <10.0 mg/kg
20-	┝┷╦┷┙		F	5			6.1	20 - 21' bgs
			ŀ					GRO: <10.0 mg/kg
25-								DRO: 190 mg/kg
-								Total TPH: 190 mg/kg
30-		Silty Sand		6			5.5	30 - 31' bgs
-		7.5 YR 6/3, light brown quartz sand, v grained, poorly sorted, moderately loos	se.					GRO: <10.0 mg/kg
35-								DRO: <10.0 mg/kg
								Total TPH: <10.0 mg/kg
40			-	7			5.1	
45-								
50-		-		8			3.1	50 - 51' bgs
		End of Borehole at 51 ft	F					GRO: <10.0 mg/kg
55								DRO: <10.0 mg/kg
-								Total TPH: <10.0 mg/kg
60-								
D	rilling N		arson ar					cked by: CKC
D	ate Dril		07 North /lidland,				Ste. 202	-
н	ole Size		915) 687-				Dril	ed by: Scarborough Drilling, Inc.

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APPENDIX C

LABORATORY REPORT

ANALYTICAL REPORT

Prepared for:

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710

Project:Texaco/ McKinley LeasePO#:G0205195

Report Date: 12/10/2002

<u>Certificates</u> US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS I, LTD.

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

Received by OCD: 4/1/2020(12:00:08 AM

ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC.Order#:G0205195P.O. BOX 50685Project:2-0100MIDLAND, TX 79710Project Name:Texaco/ McKinley Lease915-687-0456Location:None Given

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.

				Date / Time	D	ate / Time		
Lab ID:	Sample :	Matrix:		Collected	_	Received	Container	Preservative
0205195-01	BH-13 (0-1')	SOIL		12/5/02		12/6/02	4 oz glass	Ice
				10:25		16:50		
La	<u>b Testing:</u>	Rejected:	No	Te	emp:	4.0 C		
	8015M							
0205195-03	BH-13 (10-11')	SOIL		12/5/02		12/6/02	4 oz glass	Ice
				10:35		16:50		
La	<u>b Testing:</u>	Rejected:	No	Te	emp:	4.0 C		
I	8015M							
0205195-05	BH-13 (20-21')	SOIL		12/5/02		12/6/02	4 oz glass	Ice
02031/2 03				10:51		16:50	-	
La	b Testing:	Rejected:	No	Те	emp:	4.0 C		
	8015M							
0205195-06	BH-13 (30-31')	SOIL		12/5/02		12/6/02	4 oz glass	Ice
02001/0 00				11:00		16:50		
La	<u>b Testing:</u>	Rejected:	No	Te	emp:	4.0 C		
	8015M							
0205195-08	BH-13 (50-51')	SOIL		12/5/02		12/6/02	4 oz glass	Ice
0400170-00				11:36		16:50	-	
La	<u>b Testing:</u>	Rejected:	No	Те	emp:	4.0 C		
. *	8015M							

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX	ASSOCIATES, INC. 79710			Order#: Project: Project Name Location:	2-01 e: Texa	05195 00 aco/ McKinley L le Given	ease
Lab ID: Sample ID:	0205195-01 BH-13 (0-1')						
				8015M			
	Method	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilutio Factor		Method
	Blank	ricparcu	12/9/02	1	<u>ractor</u> 1	CK	8015M
		Parameter		Resul		RL	
		GRO, C6-C12		mg/kg		10.0	
		DRO, >C12-C35	· · · · · · · · · · · · · · · · · · ·	<10.0		10.0	
		TOTAL, C6-C35		<10.0		10.0	
		L					
		Surroga	tes	% Recovered	QC Li	mits (%)	
		1-Chloroocta		86%	70	130	
		1-Chloroocta	decane	92%	70	130	
Lab ID: Sample ID:	0205195-03 BH-13 (10-11')			8015M			
	Method	Date	Date	Sample	Dilutio		
	Blank	Prepared	Analyzed	Amount	Factor		Method
			12/9/02	1	1	СК	8015M
		Parameter	······	Resul mg/kg		RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35		<10.0		10.0	
		TOTAL, C6-C35		<10.0		10.0	
		Surroga	tes	% Recovered	QC Li	mits (%)	
		1-Chloroocta		79%	70	130	
		1-Chloroocta	4	81%	70	130	

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

Page 1 of 3

ENVIRONMENTAL LAB OF TEXAS I, LTD.

ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710				Order#: Project: Project Name Location:	2-010 :: Texa	G0205195 2-0100 Texaco/ McKinley Lease None Given		
Lab ID: Sample ID:	0205195-05 BH-13 (20-21')							
				8015M				
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 12/9/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	Method 8015M	
				5				
		Parameter		Result mg/kg		RL		
		GRO, C6-C12		<10.0		10.0		
		DRO, >C12-C35		190		10.0		
		TOTAL, C6-C35		190		10.0		
		Surrogat		% Recovered	QC Lim	ite (9/)		
		1-Chloroocta		89%	70	130		
		1-Chloroocta		101%	70	130		
Lab ID: Sample ID:	0205195-06 BH-13 (30-31')							
•	· · · ·			8015M				
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method	
			12/9/02	1	1	СК	8015M	
		Parameter		Result mg/kg		RL	0	
		GRO, C6-C12		<10.0		10.0		
		DRO, >C12-C35		<10.0		10.0		
		TOTAL, C6-C35		<10.0		10.0		
		Surroga	tes	% Recovered	QC Lin	its (%)		
		1-Chloroocta		87%	70	130		
		1-Chloroocta	the second se	93%	70	130		

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Page 2 of 3

ENVIRONMENTAL LAB OF TEXAS I, LTD.

ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX	SSOCIATES, INC. 79710			Order#: Project: Project Name Location:	G0205 2-0100 :: Texaco None C	/ McKinley L	ease
Lab ID: Sample ID:	0205195-08 BH-13 (50-51')						
				8015M			
	Method <u>Blank</u>	Date Prepared	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
			12/9/02	1	1	СК	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	

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	84%	70	130
1-Chlorooctadecane	90%	70	130

Approval: Plance McMuty 12-10-02 Raland K. Thttle, 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 I, LTD. 12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

8015M

Order#: G0205195

BLANK SOIL		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD	
TOTAL, C6-C35-mg/kg		0004010-02			<10.0			
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD	
TOTAL, C6-C35-mg/kg		0205195-01	0	952	956	100.4%		
MSD SOIL		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD	
TOTAL, C6-C35-mg/kg		0205195-01	0	952	1005	105.6%	5.%	
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD	
TOTAL, C6-C35-mg/kg		0004010-05		1000	900	90.%		

ENVIRONMENTAL LAB OF TEXAS I, LTD. 1260

CO 0100 0100 0100 0100 0100 122 122 122 12	SITE SAM THE S	MANAGER: Jindy Crain JECT NAME: MCKinley Leu H-13 (0-11) H-13 (0-11) (18.111) (18.111) (18.21) (18.21) (18.21) TIME: [12/5/02] DATE: [2/5/02] TIME: [1650] TIME: [1650]			PARAM BY: (Signature) BY: (Signature)		CHAIN-OFCU Fouriermental Consultants 507 N. Marienfeld, Ste. 2 LAB. I.D. NUMBER ILAB USE ONLY ASSOCIATES, Inc. Environmental Consultants 507 N. Marienfeld, Ste. 2 LAB. I.D. NUMBER ILAB USE ONLY COSTIGS	-CUSTODY RECORD -CUSTODY RECORD sultants 915-687-0901 J. Ste. 202 • Midland, TX 79701 REEMARKS (I.E., FILTERD, UNIFICTERD, UNIFICTERD
COMMENTS: RECEIVING LABORATORY: ELU ADDRESS: 12600 い エジ CONTACT: CONTACT:	1-0	E STATE:	REC 79-76504	RECEIVED	RECEIVED BY: (Signature)	IRNAROUND TIME NEEDER	WHITE - RECEIVING LAB VELLOW - RECEIVING LAB LA AFTER RECEIPT) PINK - PROJECT MANAGER GOLD - QA/QC COORDINATOR	(TO BE REI PT) AGER NNATOR
SAMPLE CONDITION WHEN RECEIVED:				LA CON	LA CONTACT PERSON:	ö	SAMPLE TYPE:	

ANALYTICAL REPORT

Prepared for:

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710

Project:Texaco / McKinley LeasePO#:G0205350

Report Date: 12/31/2002

Certificates US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS I, LTD.

ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC.Order#:G0205350P.O. BOX 50685Project:0-0100MIDLAND, TX 79710Project Name:Texaco / McKinley Lease915-687-0456Location:None Given

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 <u>Received</u>	Container	Preservative
02053	50-01	SS-1 (Hole D) 29'	SOIL	12/30/02 10:50	12/30/02 15:15	4 oz Glass	Ice
		<u>Testing:</u> 8015M	Rejected: No	Ten	ap: 5 C		_

ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX				Order#: Project: Project Name Location:	G0205 0-0100 e: Texaco None C	/ McKinley I	Lease
Lab ID: Sample ID:	0205350-01 SS-1 (Hole D) 29'						
				8015M	÷		
	Method Blank	Date Prepared	Date <u>Analyzed</u>	Sample Amount	Dilution <u>Factor</u>	Analyst	Method
			12/30/02	1	1	СК	8015M
		Parameter		Resul mg/kg		RL	
		GRO, C6-C12		<10.0)	10.0	
		DRO, >C12-C35		<10.0		10.0	
		TOTAL, C6-C35		<10.0)	10.0	

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	70%	70	130
1-Chlorooctadecane	73%	70	130

31-02 Kaland Approval: 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.

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

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#: G0205350

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0004217-02			<10.0		
CONTROL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0004217-03		952	909	95.5%	
CONTROL DUP	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0004217-04		952	823	86.4%	9.9%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0004217-05		1000	809	80.9%	-

CHAIN-OF-CUSTODY RECORD	A drson & Environmental Consultants 607 N Marrienfeld Ste 200 • Midland TX 79701		ILE., FIL PRESERV	. Rush							RECEIVED BY: (Signature) DAIE: DAIE: TIME:	SAMPLE SHIPPED BY: (Circle)	BUS AI	WHITE - RECEIVING LAB	-		SAMPLE TYPE:	Malkd w/ verbals 12130102 5:00.
	CONTAINERS			>) BY: (Signature) DATE: TIME:	BY: (Signature) DATE:	TIME	resutts (556-8645)	cerveb BY: (Signatore)	TEL 12/36/02 JIME 15/5	LA CONTACT PERSON:	
SITE MANAGER:		#0	Sample IDENTIFICATION	55-1 (Hale D) 29'0						10/01/04	DATE: 4/21/04 RELINQUISHED BY: (Signature) TIME: 1/0/0	RECEIVED	TIME: 15/3	Call C. Crain w/verbal re	AB- Receiv	STATE:ZIP:DATE	GUASS	
CLIENT NAME: 18xal 0	ст NO.: 0 - 0100		105 8114M 3W11 1140	12 1050 1						00	SAMPLED BY: (Signature)	RELINGUISHED BY: ISIGNATURE)	/ indy (sau	comparity. Please	RECEIVING LABORATORY: EL	CONTACT:	sample condition when received: \mathcal{SO}	

•

ANALYTICAL REPORT

Prepared for:

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710

Project:Texaco/ McKinley LeasePO#:G0305383Report Date:01/07/2003

<u>Certificates</u> US EPA Laboratory Code TX00158

LARSON AND ASSOCIATES, INC.Order#:G0305383P.O. BOX 50685Project:0-0100MIDLAND, TX 79710Project Name:Texaco/ McKinley Lease915-687-0456Location:None Given

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 1D:	Sample :	Matrix:		Date / Tin Collecte		Date / Time <u>Received</u>	Container	Preservative
0305383-01	SS-2 (8')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
0000000000				10:40		8:25		
Lal	b Testing:	Rejected:	No		Тетр	-1.5 C		
	8015M							
0305383-02	SS-3 (9')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
				10:42		8:25		
Lat	b Testing:	Rejected:	No		Temp	-1.5 C		
	8015M						······	
0305383-03	SS-4 (8')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
				10:44		8:25		
La	b Testing:	Rejected:	No		Тетр	-1.5 C		
	8015M							
0305383-04	SS-5 (8')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
				10:57		8:25		
La	<u>b Testing:</u>	Rejected:	No		Temp	-1.5 C		
	8015M							
0305383-05	SS-6 (7')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
				10:59		8:25		
La	b Testing:	Rejected:	No		Temp	-1.5 C		
	8015M							
0305383-06	SS-7 (7')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
				11:02		8:25		
La	<u>b Testing:</u>	Rejected:	No		Temp	-1.5 C		
	8015M							
0305383-07	SS-8 (9')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
_	·			11:05		8:25		
	b Testing:	Rejected:	No		Temp	•: -1.5 C		
	8015M							
0305383-08	SS-9 (9')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
_	•			11:07		8:25		
	b Testing:	Rejected:	No		Тетр	•: -1.5 C		
	8015M							
	8021B/5030 BTEX							
EN	VIRONMENTAL LAB O	F TEXAS I,	LTD.	12600 V	Vest I-	20 East, Odes	sa, TX 79765 Ph	: 915-563-1800

LARSON AND ASSOCIATES, INC.Order#:G0305383P.O. BOX 50685Project:0-0100MIDLAND, TX 79710Project Name:Texaco/ McKinley Lease915-687-0456Location:None Given

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	Preservativ
0305383-09	SS-10 (9')	SOIL		1/2/03 11:10		1/3/03 8:25	4 oz glass	Ice
Ia	b Testing:	Rejected:	No		emp:	-1.5 C		
La	8015M	Rejected	110		cmp.	-1.5 C		2
	8013101							
0305383-10	SS-11 (16')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
		201621 W W		11:30		8:25		
La	b Testing:	Rejected:	No	1	Cemp:	-1.5 C		
	8015M							
0305383-11	SS-12 (17')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
0505565-11	, ,			11:35		8:25	AT6.4	
La	b Testing:	Rejected:	No	1	lemp:	-1.5 C		
1011121-1112-	8015M							
0305383-12	SS-13 (16')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
0303303-12				11:38		8:25	0.000	
La	b Testing:	Rejected:	No	1	lemp:	-1.5 C		
	8015M							
0305383-13	SS-14 (10')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
0303303-13				11:40		8:25	•	
La	b Testing:	Rejected:	No	1	ſemp:	-1.5 C		
	8015M	042					047	
0305383-14	SS-15 (19')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
0303303-14	ζ,			11:42		8:25	0	
La	b Testing:	Rejected:	No	1	ſemp:	-1.5 C		
	8015M					100.01		
0305383-15	SS-16 (27')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
0505565-15		2492.ISB		11:45		8:25	1.50 - 1 000	1777
La	b. Testing:	Rejected:	No	1	Гетр:	-1.5 C		
	8015M							
0305383-16	SS-17 (29')	SOIL		1/2/03		1/3/03	4 oz glass	Ice
0000000 10	d. A.			12:40		8:25	-	
La	b Testing:	Rejected:	No		Temp:	-1.5 C		
	8015M							

ENVIRONMENTAL LAB OF TEXAS I, LTD.

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

LARSON AND ASSOCIATES, INC. Order#: G0305383 P.O. BOX 50685 Project: 0-0100 MIDLAND, TX 79710 Project Name: Texaco/ McKinley Lease 915-687-0456 None Given Location:

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.

			Date / Time	Date / Time		
Lab ID:	Sample :	Matrix:	Collected	Received	Container	Preservative
0305383-17	SS-18 (29')	ŞOIL	1/2/03	1/3/03	4 oz glass	Ice
			12:45	8:25		
La	<u>b Testing:</u>	Rejected: No) T	emp: -1.5 C		
	8015M					
0305383-18	SS-19 (20')	SOIL	1/2/03	1/3/03	4 oz glass	Ice
			12:15	8:25		
La	b. Testing:	Rejected: No	o T	emp: -1.5 C		
	8015M					
0305383-19	SS-20 (26')	SOIL	1/2/03	1/3/03	4 oz glass	Ice
			12:20	8:25		
La	b Testing:	Rejected: No	o T	emp: -1.5 C		
	8015M			· · · · · · · · · · · · · · · · · · ·		
0305383-20	SS-21 (15')	SOIL	1/2/03	1/3/03	4 oz glass	Ice
			12:00	8:25		
La	<u>b Testing:</u>	Rejected: No	D T	emp: -1.5 C		
I	8015M					
0305383-21	SS-22 (27')	SOIL	1/2/03	1/3/03	4 oz glass	Ice
			12:10	8:25		
La	b Testing:	Rejected: No	о т	emp: -1.5 C		
	8015M					
0305383-22	SS-23 (10')	SOIL	1/2/03	1/3/03	4 oz glass	Ice
			13:15	8:25		
La	b Testing:	Rejected: No	D T	emp: -1.5 C		
	8015M					

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX				Order#: Project: Project Na Location:	0-(me: Te)305383 0100 exaco/ McKinley one Given	Lease	
Lab ID: Sample ID:	0305383-01 SS-2 (8')							
				8015M				
	Method	Date	Date	Sample	Diluti	ion		
	Blank	Prepared	Analyzed	Amount	Fact		Method	
			1/4/03	1	1	RKT	8015M	
		Parameter		Res		RL]	
		GRO, C6-C12		<1(10.0	-	
		DRO, >C12-C35				10.0	-	
		TOTAL, C6-C35		14		10.0	1	
							1	
		Surrogat	tes	% Recovered	d QC I	imits (%)		
		1-Chloroocta		98%	70	130		
		1-Chloroocta	Idecane	98%	70	130		
Lab ID:	0305383-02							
Sample ID:	SS-3 (9')							
				8015M				
	Method <u>Blank</u>	Date <u>Prepared</u>	Date Analyzed	Sample <u>Amount</u>	Dilut <u>Fact</u>		Method	
			1/4/03	1	1	RKT	8015M	
		Parameter		Res mg		RL		
		GRO, C6-C12		<1().0	10.0]	
		DRO, >C12-C35		<1(10.0		
		TOTAL, C6-C35		<10	0.0	10.0		
		Surroga		% Recovere		Limits (%)		
		1-Chloroocta		92%	70	130		
		1-Chloroocta	decane	91%	70	130		

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

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ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

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ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

CINDY CRAIN ARSON AND A 2.0. BOX 50685 /IDLAND, TX	SSOCIATES, INC.		5	Order#: Project: Project Na Location:	0-01 me: Tex	805383 100 aco/ McKinley ne Given	Lease
Lab ID: Sample ID:	0305383-03 SS-4 (8')						
				8015M			
	Method Blank	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilutio <u>Factor</u>	r <u>Analyst</u>	Method
		. •	1/4/03	1	1	RKT	8015M
		Parameter		Res mg/		RL	
		GRO, C6-C12		<10	0.0	10.0	
		DRO, >C12-C35		<10		10.0	
		TOTAL, C6-C35		<10	0.0	10.0	
		Surroga	ites	% Recovered	I QC Li	mits (%)	
		1-Chlorooct	ane	87%	70	130	
		1-Chlorooct	adecane	85%	70	130	
Lab ID: Sample ID:	0305383-04 SS-5 (8')			8015M			
	Method	Date	Date	Sample	Dilutio		
	Blank	Prepared	<u>Analyzed</u> 1/4/03	Amount 1	<u>Facto</u> 1	<u>r Analyst</u> RKT	Method 8015M
		Parameter		Res		RL]
				mg/		10.0	_
		GRO, C6-C12 DRO, >C12-C35		18		10.0	-
		TOTAL, C6-C35		23		10.0	-
		101111,0003					
		Surrog		% Recovered		imits (%)	
		1-Chlorooc		96%	70	130	
		1-Chlorooc	tadecane	95%	70	130	

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

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ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

CINDY CRAIN LARSON AND AS P.O. BOX 50685 MIDLAND, TX 7				Order#: Project: Project Name Location:	0-0 e: Te	305383 100 xaco/ McKinley I ne Given	.ease
Lab ID:	0305383-05						
Sample ID:	SS-6 (7')						
				8015M			
	Method	Date	Date <u>Analyzed</u>	Sample	Diluti		Method
	Blank	Prepared	1/4/03	<u>Amount</u> 1	Facto	e <u>r Analyst</u> RKT	8015M
		Parameter		Resul mg/kg		RL	
		GRO, C6-C12		<10.0)	10.0	
		DRO, >C12-C35		199		10.0	
	-	TOTAL, C6-C35		199		10.0	
		Surroga		% Recovered		imits (%)	
:		1-Chlorooct		75%	70	130	
		1-Chlorooct	adecane	75%	70	130	
Lab ID: Sample ID:	0305383-06 SS-7 (7')			001535			
	Mathad	Data	Date	8015M	D.L.C		
	Method Blank	Date <u>Prepared</u>	Analyzed	Sample <u>Amount</u>	Diluti Facto		Method
			1/4/03	1	1	RKT	8015M
		Parameter		Resul mg/kg		RL	
		GRO, C6-C12		<10.0)	10.0	
		DRO, >C12-C35		113		10.0	
		TOTAL, C6-C35		113		10.0	7
1		Surroga		% Recovered		imits (%)	
		1-Chlorooct		97%	70 70	130 130	
		1-Chlorooct	adecane	97%	10	150	
		1-Chiorooci	adecane	97%	10	150	

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

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ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX	SSOCIATES, INC. 79710			Order#: Project: Project Name Location:	0-01 e: Tex	05383 00 aco/ McKinley L e Given	ease
Lab ID: Sample ID:	0305383-07 SS-8 (9')						
				8015M			
	Method Blank	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilutio <u>Factor</u>	Analyst	Method
			1/4/03	1	5	RKT	8015M
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		128		50.0	
		DRO, >C12-C35		4050		50.0	
		TOTAL, C6-C35		4178		50.0	
		Surroga		% Recovered		mits (%)	
		1-Chloroocta 1-Chloroocta		20%	70 70	130 130	
Lab ID: Sample ID:	0305383-08 SS-9 (9')						
				8015M			
	Method	Date	Date	Sample	Dilutio		Mathad
	Blank	Prepared	<u>Analyzed</u> 1/4/03	<u>Amount</u> 1	Factor 10	r <u>Analyst</u> RKT	Method 8015M
		Parameter		Resul	t	RL	
				mg/kg			
		GRO, C6-C12		1530		100	
		DRO, >C12-C35		12800		100	
		TOTAL, C6-C35		14330	,	100	
		Surroga		% Recovered	1	mits (%)	
		1-Chlorooct		20%	70	130	
		1-Chlorooct	adecane	12%	70	130	

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

			ANALIII	ICAL REP	UKI		
CINDY CRAIN				Order#:	G0305	383	
LARSON AND A	SSOCIATES, INC.			Project:	0-0100		
P.O. BOX 50685				Project Name:	Texaco	/ McKinley L	ease
MIDLAND, TX	79710			Location:	None (Given	
Lab ID:	0305383-08						
Sample ID:	SS-9 (9')						
			8021B	/5030 BTEX			
	Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
	0004249-02	()	1/3/02	1	100	RKT	8021B
		Parameter		Result mg/kg		RL	
		Benzene		<0.025		0.100	
		Toluene		0 195		0 100	

Denizente	-0.045	
Toluene	0.195	0.100
Ethylbenzene	1.24	0.100
p/m-Xylene	6.50	0.100
o-Xylene	0.929	0.100

Surrogates	% Recovered	QC Li	mits (%)
aaa-Toluene	101%	80 120	
Bromofluorobenzene	105%	80	120

Lab ID: 0305383-09

Sample ID:

SS-10 (9')

8015M Method Date Date Sample Dilution Analyzed Amount Blank Prepared Factor Analyst Method 1/4/03 1 10 RKT 8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	< 100	100
DRO, >C12-C35	1740	100
TOTAL, C6-C35	1740	100 -

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	11%	70 130	
1-Chlorooctadecane	12%	70	130

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

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ENVIRONMENTAL LAB OF TEXAS I, LTD.

CINDY CRAIN ARSON AND A O. BOX 50685 MIDLAND, TX	SSOCIATES, INC.		Order#: Project: Project Nam Location:	0-0 e: Tex	305383 100 aco/ McKinley ne Given	Lease	
Lab ID:	0305383-10						
Sample ID:	SS-11 (16')						
				8015M			
	Method	Date	Date	Sample	Dilutio)n	
	Blank	Prepared	Analyzed	Amount	Facto	r <u>Analyst</u>	Method
			1/4/03	1	1	RKT	8015M
		Parameter		Resu		RL	
		GRO, C6-C12		mg/k		10.0	-
		DRO, >C12-C35		<10.		10.0	-
		TOTAL, C6-C35		<10.		10.0	-
		L					J
		Surrogat		% Recovered		mits (%)	
		1-Chloroocta		100%	70	130	
		1-Chloroocta	idecane	101%	70	130	
Lab ID:	0305383-11						
Sample ID:	SS-12 (17')						
				8015M			
	Method	Date	Date	Sample	Dilutio		
	Blank	Prepared	Analyzed	Amount	Facto		Method
			1/4/03	1	10	RKT	8015M
		Parameter		Resu mg/k		RL	
		GRO, C6-C12		< 10	0	100]
		DRO, >C12-C35		900		100	
		TOTAL, C6-C35		900		100	
		Surroga	tes	% Recovered	QC L	imits (%)	
		1-Chloroocta		9%	70	130	
		1-Chloroocta	adecane	9%	70	130	

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

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ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710				Order#: Project: Project Name: Location:	0-010 Texa	5383)0 co/ McKinley L Given	ease
Lab ID:	0305383-12						
Sample ID:	SS-13 (16')						
				8015M			
	Method	Date	Date	Sample	Dilution		
	Blank	Prepared	Analyzed	Amount	Factor	Analyst	Method
			1/6/03 18:04	1	1	RKT	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	
		Surrogat	es	% Recovered	QC Lin	nits (%)	
		1-Chloroocta		108%	70	130	
		1-Chloroocta	decane	117%	70	130	
Lab ID:	0305383-13						
Sample ID:	SS-14 (10')						
				8015M			
	Method	Date	Date	Sample	Dilution		N
	Blank	Prepared	<u>Analyzed</u> 1/6/03 18:04	<u>Amount</u> 1	<u>Factor</u> 1	<u>Analyst</u> RKT	<u>Method</u> 8015M
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35		176		10.0	
		TOTAL, C6-C35		176		10.0	

Surrogates	% Recovered	QC Limits (%)		
1-Chlorooctane	112%	70	130	
1-Chlorooctadecane	114%	70	130	

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ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX				Order#: Project: Project Name Location:	0-0 : Te	305383 100 xaco/ McKinley L ne Given	ease
Lab ID: Sample ID:	0305383-14 SS-15 (19')						
				8015M			
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 1/6/03 18:04	Sample <u>Amount</u> 1	Diluti <u>Facto</u> 1		<u>Method</u> 8015M
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		52.3		10.0	
		DRO, >C12-C35		264		10.0	
		TOTAL, C6-C35		316		10.0	
		Surrogat		% Recovered		imits (%)	
		1-Chloroocta 1-Chloroocta		119% 126%	70 70	130 130	
Lab ID: Sample ID:	0305383-15 SS-16 (27')			8015M			
	Method	Date	Date	Sample	Diluti		
	Blank	Prepared	<u>Analyzed</u> 1/6/03 18:04	<u>Amount</u> 1	<u>Facto</u> 1	o <u>r Analyst</u> RKT	Method 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	
		Surroga		% Recovered	001	imits (%)	
		Jun oga		/ Accordica		(,,)	

Surrogates	% Recovered	QC Limits (%)		
1-Chlorooctane	121%	70	130	
1-Chlorooctadecane	125%	70	130	

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

ENVIRONMENTAL LAB OF TEXAS

CINDY CRAIN LARSON AND AS P.O. BOX 50685 MIDLAND, TX	SSOCIATES, INC. 79710				Order#: Project: Project Name Location:	0-01 : Tex:	05383 00 aco/ McKinley I e Given	Lease
Lab ID: Sample ID:	0305383-16 SS-17 (29')							
				801	5M			
	Method Blank	Date <u>Prepared</u>	Date <u>Analyzed</u>		Sample Amount	Dilutio Factor		Method
			1/6/03 18:04		1	1	RKT	8015M
		Parameter			Result mg/kg		RL	
		GRO, C6-C12			<10.0	-	10.0	1
		DRO, >C12-C35			<10.0		10.0	1
		TOTAL, C6-C35			<10.0		10.0]
		Surrogat	tes	%	6 Recovered		nits (%)	
		1-Chloroocta		<u> </u>	126%	70	130	
		1-Chloroocta	idecane		127%	70	130	
Lab ID: Sample ID:	0305383-17 SS-18 (29')			801	5M			
	Method	Date	Date		Sample	Dilutio	n	
	Blank	Prepared	Analyzed		Amount	Factor		Method
			1/6/03 18:04		1	1	RKT	8015M
		Parameter			Result mg/kg		RL	
		GRO, C6-C12			<10.0		10.0	1
		DRO, >C12-C35			<10.0		10.0	
		TOTAL CC C25			<10.0		10.0	
		TOTAL, C6-C35						
		·			(December 2			
		Surrogat 1-Chloroocta		. 9	% Recovered 119%	QC Li 70	mits (%) 130	

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

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ENVIRONMENTAL LAB OF TEXAS I, LTD.

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710				Order#: Project: Project Name Location:			ease
	5383-18						
Sample ID: SS	-19 (20')						
			9	8015M			
	Method	Date	Date	Sample	Dilution		
	Blank	Prepared	Analyzed	Amount	Factor	Analyst	Method
			1/6/03 18:04	1	1	RKT	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	
		Surroga	itee	% Recovered	QC Lim	ite (%)	
		1-Chlorooct		130%	70	130	
		1-Chlorooct		120%	70	130	
	05383-19 -20 (26') Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 1/6/03 18:04	8015M Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> RKT	<u>Method</u> 8015M
				Davik			
		Parameter		Result mg/kg		RL	
		GRO, C6-C12	a	<10.0		10.0	
		DRO, >C12-C35		<10.0		10.0	
		TOTAL, C6-C35		<10.0		10.0	
#1 51							
<u>8</u>		Surroga	ites	% Recovered	QC Lin	uits (%)	

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

1-Chlorooctadecane

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ENVIRONMENTAL LAB OF TEXAS I, LTD.

70

121%

130

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710				Order#: Project: Project Nam Location:	0-01 e: Tex	05383 00 aco/ McKinley I e Given	.ease
Lab ID:	0305383-20						
Sample ID:	SS-21 (15')						
				8015M			
	Method	Date	Date	Sample	Dilutio		
	Blank	Prepared	<u>Analyzed</u> 1/6/03 18:04	<u>Amount</u> 1	Factor 1	<u>Analyst</u> RKT	Method 8015M
			10.04				
		Parameter		Resul mg/kg		RL	
		GRO, C6-C12		<10.0)	10.0	
		DRO, >C12-C35		<10.0		10.0	
		TOTAL, C6-C35		<10.0)	10.0	
		Surroga		% Recovered		mits (%)	
		1-Chlorooct 1-Chlorooct		122%	70	130 130	
		L				L	
Lab ID:	0305383-21						
Lab ID: Sample ID:	0305383-21 SS-22 (27')						
				8015M			
		Date Prepared	Date <u>Analyzed</u>	8015M Sample <u>Amount</u>	Dilutio <u>Factor</u>		Method
	SS-22 (27') Method		Date	Sample			<u>Method</u> 8015M
	SS-22 (27') Method		Date <u>Analyzed</u> 1/6/03	Sample <u>Amount</u>	Factor 1 It	<u>Analyst</u>	
	SS-22 (27') Method	Prepared Parameter GRO, C6-C12	Date <u>Analyzed</u> 1/6/03	Sample <u>Amount</u> 1 Resu mg/kj <10.0	Factor 1 lt g	RL	
	SS-22 (27') Method	Prepared Parameter GRO, C6-C12 DRO, >C12-C35	Date <u>Analyzed</u> 1/6/03 18:04	Sample <u>Amount</u> 1 Resu mg/kg <10.0 49.3	Factor 1 lt g	<u>Analyst</u> RKT RL 10.0 10.0	
	SS-22 (27') Method	Prepared Parameter GRO, C6-C12	Date <u>Analyzed</u> 1/6/03 18:04	Sample <u>Amount</u> 1 Resu mg/kj <10.0	Factor 1 lt g	RL	
	SS-22 (27') Method	Prepared Parameter GRO, C6-C12 DRO, >C12-C35 TOTAL, C6-C35	Date <u>Analyzed</u> 1/6/03 18:04	Sample <u>Amount</u> 1 Resu mg/kg <10.0 49.3 49.3	Factor	Analyst RKT RL 10.0 10.0	
	SS-22 (27') Method	Prepared Parameter GRO, C6-C12 DRO, >C12-C35	Date <u>Analyzed</u> 1/6/03 18:04	Sample <u>Amount</u> 1 Resu mg/kg <10.0 49.3	Factor	<u>Analyst</u> RKT RL 10.0 10.0	

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

LARSON AND ASSOCIATES, INC P.O. BOX 50685 MIDLAND, TX 79710			Order#: Project: Project Nan Location:	0-0 me: Tex	G0305383 0-0100 Texaco/ McKinley Lease None Given	
Lab ID: 0305383-22 Sample ID: SS-23 (10')						
			8015M			
Metho <u>Blank</u>		Date <u>Analyzed</u> 1/6/03 18:04	Sample <u>Amount</u> 1	Dilutio <u>Facto</u> 10		<u>Method</u> 8015M
	Parameter		Rest mg/l		RL	
	GRO, C6-C12		< 1(00	100	
	DRO, >C12-C35		397	0	100	
	TOTAL, C6-C35		397	0	100	

13%

70

130

Approval: <u>Cancer MCMUMey</u> 01-07-03 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 I, LTD. 12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

1-Chlorooctadecane

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ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

8015M

Order#: G0305383

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004256-02			<10.0		
TOTAL, C6-C35-mg/kg		0004257-02			<10.0		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004256-03		952	850	89.3%	
CONTROL DUP	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004256-04		952	860	90.3%	1.2%
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0305383-15	0	952	790	83.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0305383-15	0	952	810	85.1%	2.5%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004256-05		1000	840	84.%	
TOTAL, C6-C35-mg/kg		0004257-05		1000	814	81.4%	

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0305383

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004249-02			<0.025		
Toluene-mg/kg		0004249-02			<0.025		
Ethylbenzene-mg/kg		0004249-02			<0.025		
p/m-Xylene-mg/kg		0004249-02			<0.025		
o-Xylene-mg/kg		0004249-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0305380-06	0	0.1	0.105	105.%	
Toluene-mg/kg		0305380-06	0	0.1	0.112	112.%	
Ethylbenzene-mg/kg		0305380-06	0	0.1	0.113	113.%	
p/m-Xylene-mg/kg		0305380-06	0	0.2	0.225	112.5%	
o-Xylene-mg/kg		0305380-06	0	0.1	0.108	108.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0305380-06	0.105	0.1	0.102	102.%	2.9%
Toluene-mg/kg		0305380-06	0.112	0.1	0.105	105.%	6.5%
Ethylbenzene-mg/kg	1.2.1.1	0305380-06	0.113	0.1	0.104	104.%	8.3%
p/m-Xylene-mg/kg		0305380-06	0.225	0.2	0.210	105.%	6.9%
o-Xylene-mg/kg		0305380-06	0.108	0.1	0.102	102.%	5.7%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004249-05		0.1	0.118	118.%	
Toluene-mg/kg		0004249-05		0.1	0.113	113.%	
Ethylbenzene-mg/kg		0004249-05		0.1	0.111	111.%	
p/m-Xylene-mg/kg		0004249-05		0.2	0.232	116.%	
o-Xylene-mg/kg		0004249-05		0.1	0.111	111.%	

CASE NARRATIVE ENVIRONMENTAL LAB OF TEXAS

Prepared for:

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 Order#: G0305383

Project: Texaco/ McKinley Lease

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
SS-2 (8')	0305383-01	SOIL	01/02/2003	01/03/2003
SS-3 (9')	0305383-02	SOIL	01/02/2003	01/03/2003
SS-4 (8')	0305383-03	SOIL	01/02/2003	01/03/2003
SS-5 (8')	0305383-04	SOIL	01/02/2003	01/03/2003
SS-6 (7')	0305383-05	SOIL	01/02/2003	01/03/2003
SS-7 (7')	0305383-06	SOIL	01/02/2003	01/03/2003
SS-8 (9')	0305383-07	SOIL	01/02/2003	01/03/2003
SS-9 (9')	0305383-08	SOIL	01/02/2003	01/03/2003
SS-10 (9')	0305383-09	SOIL	01/02/2003	01/03/2003
SS-11 (16')	0305383-10	SOIL	01/02/2003	01/03/2003
SS-12 (17')	0305383-11	SOIL	01/02/2003	01/03/2003
SS-13 (16')	0305383-12	SOIL	01/02/2003	01/03/2003
SS-14 (10')	0305383-13	SOIL	01/02/2003	01/03/2003
SS-15 (19')	0305383-14	SOIL	01/02/2003	01/03/2003
SS-16 (27')	0305383-15	SOIL	01/02/2003	01/03/2003
SS-17 (29')	0305383-16	SOIL	01/02/2003	01/03/2003
SS-18 (29')	0305383-17	SOIL	01/02/2003	01/03/2003
SS-19 (20')	0305383-18	SOIL	01/02/2003	01/03/2003
\$S-20 (26')	0305383-19	SOIL	01/02/2003	01/03/2003
SS-21 (15')	0305383-20	SOIL	01/02/2003	01/03/2003
SS-22 (27')	0305383-21	SOIL	01/02/2003	01/03/2003
SS-23 (10')	0305383-22	SOIL	01/02/2003	01/03/2003

Surrogate recoveries are outside the control limits because they were diluted out. (TPH) (0205383-07, 08, 09, 22)

CASE NARRATIVE ENVIRONMENTAL LAB OF TEXAS

Prepared for:

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 Order#: G0305383

Project: Texaco/ McKinley Lease

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:

Environmental Lab of Texas I, Etd.

Date: 01-07-03

	CHAIN-OF-CUSTODY RECORD	0	Sociates, Inc. Fax: 915-687-0456 Environmental Consultants 915-687-0901	507 N. Marienfeld, Ste. 202 • Midland, TX 79701	LAB. I.D. REMARKS NUMBER (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, (LAB USE ONLY) GRAB COMPOSITE)	0305383-01	20	63	h9	65	ote	6	23	CA .	01		2	(3	<u>,</u>	5	10	C		RECEIVED BY: (Signature) UAI E.	SAMPLE SHIPPED BY: (Circle)	BUS AI	DELIVERED	WHITE - RECEIVING LAB YELLOW - RECEIVING LAB (TO BE RETURNED TO		1	SAMPLE TYPE:
-ţ-	R PARAMETERS/METHOD NUMBER		21 <i>C.0.</i> M <i>S</i>	-102	NTER O	7	<u> </u>	>	7		<u> </u>					>	7		\ \ \			<u> </u>	///////////////////////////////////////	IED BY: (Signature) DATE: DATE: TIME:	(Signature)	TIME	TURNAROUND TIME NEEDED		Y: (Signature)	DATE: 01-03-03 TIME: 08-25-	LA CONTACT PERSON:
	CLIENT NAME: SITE MANAGER:	texues Cinety Crain	PROJECT NO : D. 0100 MCKINIPIN LEASE	IF J ILAB. PO #	5 23440 1105 23147M 31014	3 1040 1 55-2 1	1042 1 55.	" 1044 V 55.4 (8')	" 1057 1 55-5 (8')	" 1059 V 55-6 (7·)	" 1102 1 55-7 (7)	" 1105 × 55-8 (9')	. 55	7	7	" 1/35 V 55-12 (17')	7	" 1140 v 55-14 (10.)	1 53-15 1	V 55-16 6	V 35-17 1	" 1245 ~ 55-18 (291)	V 55-19 (20')	Isignaruje) DATE: 12/03 RELINQUISH	1/5/05 RECEIVED BY	TIME: DS25			RECEIVING LABORATORY: EDVICED ALL AL OF TX RE ADDRESS. 12 (200 W - 21) F	STATE: TX ZIP: 7976S	NDITION WHEN RECEIVED:

Released to Imaging: 3/22/2022 3:05:10 PM

		53570			
CLIENT NAME:	SITE MANAGER:	PARAN	PARAMETERS/METHOD NUMBER	CHAIN-OF-CUSTODY RECORD	ORD
Texaco	Lindy Cran			Second &	11 A 71
PROJECT NO.: 0-0/00	PROJECT NAME: MCKINPH LEDSE			Ausoriates, Inc. Fax: 915-687-0456 Environmental Consultants 915-687-0901	91
PAGE 2 OF 2 LAI	2			507 N. Marienfeld, Ste. 202 • Midland, TX 79701	10797
1105 31105 31111 31111 31111	SAMPLE IDENTIFICATION	HJL NOWBER C		LAB. I.D. NUMBER ILE., FILTERED, UNPILITERED, PRESERVED, UNPRESERVED, (LAB USE ONLY) GRAB COMPOSITE)	ene in parent P
12103 1220 V	55.20 (26)	1		0305383 19	
1				20	
:	2 6	1		21	
	131	> >		4 22	
					-:
					\$ 1 cm
SAMPKED BY: (Signaphre)	DATE: 1/2/03 RELINQUISH	HED BY: (Signature)	DATE	RECEIVED BY: (Signature) DATE	
RELINQUISMED BY: (Signature)	13/03	RECEIVED BY: (Signature)	DATE:	SAMPLE SHIPPED BY: (Circle)	
1 201- 1 2010	TIME: 0825		TIME:	BUS A	
COMIMENTS			TURNAROUND TIME NEEDED	B	-
				VHITE - Receiving Lab Vellow - Receiving Lab (to be returned to	
M3		RECEIVED BY: (Signature)	5		
	Zent -19765	DATE: 01-03 23	TIME: OB 2	-	
SAMPLE CONDITION WHEN RECEIVED:		LA CONTACT PERSON	:AS	SAMPLE TYPE:	
	-1,S'C	CC	rain	/iac	٦

ANALYTICAL REPORT

Prepared for:

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710

Project: Texaco / McKinley

PO#:

Order#: G0305663

Report Date: 02/11/2003

<u>Certificates</u> US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 915-687-0456 Order#:G0305663Project:2-0100Project Name:Texaco / McKinleyLocation:None Given

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.

				Date / Time	e I	Date / Time		
Lab ID:	Sample :	Matrix:		Collected		Received	Container	Preservative
0305663-01	SS-24 (10')	SOIL		2/7/03		2/7/03	4 oz Glass	None
				10:15		16:55		
Lab	Testing:	Rejected:	No	1	Гетр:	1.0 C		
	8015M							
	Chloride							
0305663-02	SS-25 (19')	SOIL		2/7/03		2/7/03	4 oz Glass	None
0303003-02				10:20		16:55		
Lab	Testing:	Rejected:	No		Temp:	1.0 C		
	8015M							
	Chloride							
0305663-03	SS-26 (7')	SOIL		2/7/03		2/7/03	4 oz Glass	None
		Detect 1	No	10:25		16:55		
Lat	Testing:	Rejected:	NO		Temp	1.0 C		
	8015M							
·····	Chloride							
0305663-04	SS-27 (7')	SOIL		2/7/03		2/7/03	4 oz Glass	None
0303003-04				10:30		16:55		
Lab	Testing:	Rejected:	No		Temp	1.0 C		
	8015M							
	Chloride							
0205((2.05	SS-28 (20')	SOIL		2/7/03		2/7/03	4 oz Glass	None
0305663-05	33-28 (20)	SOIL		10:35		16:55	4 02 01255	INONE
Lal	Testing:	Rejected:	No		Temp			
	8015M	-			•			
1	Chloride							
0305663-06	SS-29 (18')	SOIL		2/7/03		2/7/03	4 oz Glass	None
		P 1	N-	10:40	_	16:55		
Lal	b Testing:	Rejected:	NO		Temp	: 1.0 C		
	8015M							
·	Chloride							
0305663-07	SS-30 (18')	SOIL		2/7/03		2/7/03	4 oz Glass	None
0.50.500.5-0/				10:50		16:55		

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LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 915-687-0456 Order#:G0305663Project:2-0100Project Name:Texaco / McKinleyLocation:None Given

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:	<u>Sample :</u> 8015M Chloride	<u>Matrix:</u>		Date / Time Collected		Date / Time <u>Received</u>	Container	Preservative
0305663-08	SS-31 (15')	SOIL		2/7/03		2/7/03	4 oz Glass	None
				11:00		16:55		
La	<u>b Testing:</u>	Rejected:	No	1	ſemp:	1.0 C		
	8015M							
	Chloride							
0305663-09	SS-32 (8')	SOIL		2/7/03		2/7/03	4 oz Glass	None
0505005 07				11:05		16:55		
La	<u>b_Testing:</u>	Rejected:	No	1	ſemp:	1.0 C		
	8015M							
	Chloride							
0305663-10	SS-33 (11')	SOIL		2/7/03		2/7/03	4 oz Glass	None
0500000 10				10:45		16:55		
La	<u>b Testing:</u>	Rejected:	No	3	Temp:	1.0 C		
	8015M							
	Chloride							
0305663-11	SS-34 (8')	SOIL		2/7/03		2/7/03	4 oz Glass	None
				11:10		16:55		
La	b Testing:	Rejected:	No	1	ſemp:	1.0 C		
	8015M							
	Chloride							

CINDY CRAIN LARSON AND AS P.O. BOX 50685 MIDLAND, TX 7	SSOCIATES, INC.			F	Order#: Project: Project Name: Location:	2-01 Tex	05663 00 aco / McKinley e Given	
Lab ID:	0305663-01							
Sample ID:	SS-24 (10')							
				8015				
	Method	Date <u>Prepared</u>	Date <u>Analyzed</u>		ample mount	Dilutio Factor		Method
	Blank	ricparcu	2/10/03	<u>A</u>	1	<u>ractor</u> 1	CDH	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	
		Surroga	les	%	Recovered	OC Li	mits (%)	
		1-Chloroocta			104%	70	130	
		1-Chloroocta			101%	70	130	
Lab ID: Sample ID:	0305663-02 SS-25 (19') Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>		5 M Sample	Dilutio <u>Factor</u>		Method
			2/10/03		1	1	CDH	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	
		Surroga	tes	%	Recovered	OC Li	mits (%)	
				1				
		1-Chloroocta	ane	-	101%	70	130	

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

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ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX				Order#: Project: Project Name Location:				
Lab ID: Sample ID:	0305663-03 SS-26 (7')							
				8015M				
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 2/10/03	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CDH	Method 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		
		Surroga	tes	% Recovered	QC Lim	its (%)		
		1-Chloroocta		110%	70	130		
		1-Chloroocta	adecane	107%	70	130		
Lab ID: Sample ID:	0305663-04 SS-27 (7')			8015M				
	Method	Date	Date	Sample	Dilution			
	Blank	Prepared	<u>Analyzed</u> 2/10/03	Amount 1	<u>Factor</u> 1	<u>Analyst</u> CDH	Method 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		
		Surroga	tes	% Recovered	QC Lim	its (%)		
		1-Chlorooct	ane	103%	70	130		

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

		*					
CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX				Order#: Project: Project Name Location:	2-01 : Tex	05663 00 aco / McKinley e Given	
Lab ID:	0305663-05						
Sample ID:	SS-28 (20')						
				8015M			
	Method	Date	Date	Sample	Dilutio	n	
	Blank	Prepared	Analyzed	Amount	Factor	Analyst	Method
			2/10/03	1	1	CDH	8015M
		Parameter		Result		RL	
				mg/kg			
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35 TOTAL, C6-C35		<10.0		10.0	
		101AL, C0-C33		10.0		10.0	
		Surroga	ites	% Recovered	OC Li	mits (%)	
		1-Chlorooct		102%	70	130	
		1-Chlorooct		97%	70	130	
Lab ID:	0305663-06						
Sample ID:	SS-29 (18')						
·				8015M			
	Method	Date	Date	Sample	Dilutio		
	Blank	Prepared	Analyzed	Amount	Factor		Method
			2/10/03	1	1	CDH	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	
		Surroga 1-Chlorooct		% Recovered		mits (%) 130	
		1-Chlorooct	ane	40.40/		1 120	
		1-Chlorooct		104%	70 70	130	

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

ENVIRONMENTAL LAB OF TEXAS I, LTD.

CINDY CRAIN LARSON AND / P.O. BOX 50685 MIDLAND, TX				Order#: Project: Project Nam Location:	2-0 e: Tex	305663 100 xaco / McKinley ne Given	
Lab ID: Sample ID:	0305663-07 SS-30 (18')						
				8015M			
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 2/10/03	Sample <u>Amount</u> 1	Dilutio <u>Facto</u> 1		Method 8015M
					•	CDII	UVIDIA
		Parameter		Resul mg/kg		RL	
		GRO, C6-C12		<10.0)	10.0	
		DRO, >C12-C35		85.1		10.0	
		TOTAL, C6-C35		85.1		10.0	
		Surroga	tes	% Recovered	OC L	imits (%)	
		1-Chloroocta		103%	70	130	
		1-Chloroocta	adecane	101%	70	130	
Lab ID: Sample ID:	0305663-08 SS-31 (15')	D .t.		8015M			
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample Amount	Diluti <u>Facto</u>		Method
	Dialik		2/10/03	1	1	CDH	8015M
		Parameter		Resu mg/kg		RL	
		GRO, C6-C12		<10.0	0	10.0	
		DRO, >C12-C35		<10.0	0	10.0	
		TOTAL, C6-C35		<10.0	D	10.0	
		Surroga	tes	% Recovered	QC L	imits (%)	
					1 -		
		1-Chlorooct	ane	112%	70	130	

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

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ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX				Order#: Project: Project Nam Location:	2-0 ie: Tex	305663 100 caco / McKinley ne Given	
Lab ID: Sample ID:	0305663-09 SS-32 (8')						
				8015M			
	Method Blank	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample Amount	Dilutio <u>Facto</u>		Method
			2/10/03	1 .	1	CDH	8015M
		Parameter		Resu mg/k		RL	
		GRO, C6-C12		<10.		10.0	
		DRO, >C12-C35		430		10.0	
		TOTAL, C6-C35		430		10.0	
		Surrogat	es	% Recovered	QC L	imits (%)	
		1-Chloroocta	ne	107%	70	130	
		1-Chloroocta	decane	107%	70	130	
Lab ID:	0305663-10						
Sample ID:	SS-33 (11')			8015M			
	Method	Date	Date	Sample	Diluti	on	
	Blank	Prepared	Analyzed	Amount	Facto	or <u>Analyst</u>	Method
			2/10/03	1	1	CDH	8015M
		Parameter		Resu mg/k		RL	
		GRO, C6-C12		<10.	0	10.0	
		DRO, >C12-C35		<10.	0	10.0	
		TOTAL, C6-C35		<10.	0	10.0	
		Surrogat	es	% Recovered	QC L	imits (%)	
		1-Chloroocta	ine	90%	70	130	

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

CINDY CRAIN LARSON AND 4 P.O. BOX 50685 MIDLAND, TX				Order#: Project: Project Name Location:	G0305 2-0100 e: Texaco None (/ McKinley	
Lab ID: Sample ID:	0305663-11 SS-34 (8')						
				8015M			
	Method	Date	Date	Sample	Dilution		
	Blank	Prepared	Analyzed	Amount	Factor	Analyst	Method
			2/10/03	1	1	CDH	8015M
		Parameter		Resul mg/kg		RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35		159		10.0	
		TOTAL, C6-C35		159		10.0	

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	83%	70	130
1-Chlorooctadecane	84%	70	130

Raland K Just) Z-11-03 Approval: 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.

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

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CINDY CRAIN LARSON AND P.O. BOX 5068 MIDLAND, TY	ASSOCIATES, INC. 5		Order# Project Project Locatio	: 2 Name: 7	G0305663 0100 Texaco / McI None Given	Kinley		
Lab ID: Sample ID:	0305663-01 SS-24 (10')							
Test Paran	neters	Result	Units	Dilution <u>Factor</u>	<u>RL</u>	Method	Date Analyzed	Analys
Chloride	· · ·	44.3	mg/kg	1	20.0	9253	2/10/03	СК
Lab ID: Sample ID:	0305663-02 SS-25 (19')							
Test Paran Parameter	neters	Result	Units	Dilution <u>Factor</u>	RL	_Method_	Date Analyzed	Analys
Chloride	1	324	mg/kg	1	20.0	9253	2/10/03	СК
Lab ID: Sample ID:	0305663-03 SS-26 (7')							
Test Paran	neters	D k		Dilution			Date	
Parameter Chloride		<u>Result</u> < 20.0	<u>Units</u> mg/kg	Factor 1	<u>RL</u> 20.0	<u>Method</u> 9253	Analyzed 2/10/03	<u>Analys</u> CK
Lab ID: Sample ID:	0305663-04 SS-27 (7')							-
Test Paran Parameter	neters	Result	Units	Dilution <u>Factor</u>	<u>RL</u>	Method	Date Analyzed	Analys
Chloride		< 20.0	mg/kg	1	20.0	9253	2/10/03	СК
Lab ID: Sample ID:	0305663-05 SS-28 (20')							
Test Paran Parameter	neters	<u>Result</u>	Units	Dilution <u>Factor</u>		Method	Date Analyzed	Analys
Chloride		177	mg/kg	1	20.0	9253	2/10/03	СК
Lab ID: Sample ID:	0305663-06 SS-29 (18')							
Test Paran _Parameter		Result	Units	Dilution Factor		Method	Date Analyzed	Analys
Chloride		< 20.0	mg/kg	1	20.0	9253	2/10/03	CK

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ENVIRONMENTAL LAB OF TEXAS I, LTD.

CINDY CRAIN			Order#	t. (0305663			
	ASSOCIATES, INC.		Project		-0100			
P.O. BOX 50685			-			Zimlaw		
MIDLAND, TX			Locatio		exaco / McH one Given	Gilley		
			Locan					
Lab ID:	0305663-07							
Sample ID:	SS-30 (18')							
Test Param	eters			Dilution			Date	
Parameter		Result	Units	Factor	<u>RL</u>	Method	Analyzed	Analyst
Chloride		88.6	mg/kg	1	20.0	9253	2/10/03	СК
Lab ID:	0305663-08							
Sample ID:	SS-31 (15')							
Test Param	eters			Dilution			Date	
Parameter		Result	Units	Factor	<u>RL</u>	Method	Analyzed	<u>Analys</u>
Chloride		59.1	mg/kg	1	20.0	9253	2/10/03	СК
Lab ID:	0305663-09	B						
Sample ID:	SS-32 (8')							
Test Param	eters			Dilution			Date	
Parameter		Result	Units	Factor	<u>RL</u>	Method	Analyzed	Analys
Chloride		103	mg/kg	1	20.0	9253	2/10/03	СК
Lab ID:	0305663-10							
Sample ID:	SS-33 (11')							
Test Param	neters			Dilution			Date	
Parameter		Result	Units	Factor	<u>RL</u>	Method	Analyzed	Analys
Chloride		295	mg/kg	1	20.0	9253	2/10/03	СК
Lab ID:	0305663-11							
Sample ID:	SS-34 (8')							
Test Param	neters			Dilution			Date	
Parameter		Result	Units	Factor	<u>RL</u>	Method	Analyzed	Analys
Chloride		59.1	mg/kg	1	20.0	9253	2/10/03	СК
					D.		<i>c</i> 0	
				Approval		andkj		103
						Director, QA Off Tech. Director	icer l	Date
						rg. Tech. Director	r	

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

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ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

8015M

Order#: G0305663

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004576-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0305663-01	0	952	989	103.9%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0305663-01	0	952	998	104.8%	0.9%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004576-05		1000	1060	106.%	

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

Test Parameters

Order#: G0305663

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0004580-01			< 20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0305665-02	2350	834	3280	111.5%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0305665-02	2350	834	3190	100.7%	2.8%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	- 18 i - 118 0	0004580-04		5000	5140	102.8%	

CLIENT NAME:	AME:				SITE MANAGER:	<				ARAMETEF	PARAMETERS/METHOD NUMBER		CHAIN-OF-CUSTODY RECORD
μ μ	Texaco				Cindy	Crain							
PROJECT NO.	CT NO.: 2 - 0100				PROJECT NAME: MCV : OLOU			zajniat					arson & ssociates, Inc. Fax: 915-687-0456
5 JUN		-			0#			CON		20		507 N. Marienfeld. Ste	915-68/-0901 anfeld. Ste. 202 • Midland. TX 79701
3UVO		MATER	1105	OTHER	SAMPLE IDENTIFICATION	U.S.O.	5663		8 HJL	The local		LAB. I.D. NUMBER ILAB LISE ONIYI	
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"	1025		7		55-26	(12)	63	-	7	7			
"	1030		7		55-27	(17)	5	-	7	7			
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COMMENTS:	NTS:									TUR	TURNAROUND TIME NEEDED	HIAND DELIVERED	UPS OTHER: VG LAB
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CONTACT	Ē				SIAIE: PHONE:	7115		DATEL	*	10 201	TIME: //dr	GOLD - QA/QC	QA/QC COORDINATOR
SAMPLE CI	SAMPLE CONDITION WHEN RECEIVED	HEN RECE	LUDE LUDE	6	for Gurss 1.	0		LA CC	ONTAC	LA CONTACT PERSON:		SAMPLE TYPE:	l'ia

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ANALYTICAL REPORT

Prepared for:

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710

Project: Texaco/ McKinley

PO#:

Order#: G0305714

Report Date: 02/18/2003

<u>Certificates</u> US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS I, LTD.



April 7, 2003

Mr. Paul Sheeley New Mexico Oil Conservation Division 1625 N. French Drive Hobbs, New Mexico 88240

Re: Soil Sample Results, Former McKinley Lease Production Facility, UL A, Section 30, Township 18 South, Range 38 East, Lea County, New Mexico

Dear Mr. Sheeley:

Please find enclosed a copy of the above-referenced report. The report is submitted on behalf of ChevronTexaco Exploration and Production, and presents the results of soil remediation activities conducted by Larson and Associates, Inc. Please call Scott Toner at (915) 687-7318 or myself at (915) 687-0901 if you have questions.

Sincerely, Larson and Associates, Inc.

inty K. (rain

Cindy K. Crain Geologist

cc: Scott Toner - ChevronTexaco William Olson, NMOCD





May 14, 2003

VIA FACSIMILE: (505) 393-0720

Mr. Paul R. Sheeley New Mexico Oil Conservation Division 1625 N. French Drive Hobbs, New Mexico 88240

Re: Soil and Groundwater Sample Results from Soil Boring BH-14, Former M^cKinley Lease Production Facility, UL A, Section 30, Township 18 South, Range 38 East, Lea County, New Mexico

Dear Mr. Sheeley:

ChevronTexaco Exploration and Production Company (ChevronTexaco), as successor to Texaco Exploration and Production Inc. (Texaco), has retained Larson and Associates, Inc. (LA) to supervise remediation of soil at a former oilfield production facility (Site) once operated by Texaco on the McKinley Lease in Unit Letter A (NE/4 NE/4), Section 30, Township 18 South, Range 38 East, Lea County, New Mexico. Figure 1 presents a location and topographic map.

Soil sample results from excavated areas and from soil boring BH-13 were submitted to the New Mexico Oil Conservation Division (NMOCD) on April 7, 2003. A verbal request was made by the NMOCD on April 28, 2003, to provide additional soil samples from the soil boring, as well as a groundwater sample.

Soil Boring

On April 30, 2003, soil boring BH-14 was drilled approximately five feet west of the BH-13 location. The boring was drilled by Scarborough Drilling, Inc. of Lamesa, Texas, utilizing an air rotary drilling rig. Figure 2 shows the location of excavations (Holes #1, 2 and 3) and soil borings BH-1 through BH-14. BH-12 is located north of the Site and is not shown on Figure 2. Appendix A provides a log of borehole BH-14.

Soil samples were collected at ground surface, and approximately every five (5) feet below ground surface (bgs), thereafter, using a split-spoon sampler. The split-spoon sampler was thoroughly washed between sample events. Drill cuttings were placed on the ground adjacent to the boring. The soil samples were placed in clean glass sample jars, labeled, chilled in an ice chest, and delivered under chain-of-custody control to Environmental Lab of Texas I, Ltd., located in Odessa, Texas. A portion of each sample was also placed in a clean glass sample jar for headspace analysis. The headspace jars were filled approximately ³/₄ full, and a layer of aluminum foil was placed over the Mr. Paul Sheeley May 14, 2003 Page 2

opening of the jar before replacing the cap. The headspace samples were allowed to reach ambient temperature before a RAE Instruments, Model 2000 photoionization detector (PID) was used to measure the concentration of organic vapors in the headspace of the sample jars. The PID probe was inserted into the headspace of the sample jars (through the aluminum foil), and the concentration of organic vapors was displayed by the instrument in parts per million (ppm). The PID was calibrated to 100.1 ppm isobutylene prior to obtaining headspace readings.

The NMOCD allows a PID measurement of less than 100 ppm to be used as a substitute for laboratory analysis of benzene and total benzene, toluene, ethylbenzene and xylenes (collectively referred to as BTEX). However, the PID measurement cannot be used as a substitute for total petroleum hydrocarbon (TPH) analysis by a laboratory. Samples from the surface and approximately every five (5) feet bgs were analyzed for chloride, and for TPH by EPA method SW-846-8015 for gasoline range organics (GRO) and diesel range organics (DRO).

Soil Boring Results

All samples collected from BH-14 exhibited a total TPH of less than ten (<10.0) milligrams per kilogram (mg/kg) except the sample from approximately 25-26 feet bgs, which resulted in a total TPH concentration of 1,053 mg/kg. All samples collected from BH-14 exhibited a chloride concentration less than the New Mexico Water Quality Control Comission (NMWQCC) standard of 250 mg/kg. Table 1 presents a summary of headspace, chloride and TPH analyses of soil samples from BH-14. Figure 2 shows the location of BH-14. Appendix B provides laboratory and chain-of-custody documentation. Appendix C presents copies of the field notes.

The borehole was advanced to a total depth of 61 feet bgs (approximately 13 feet into groundwater), covered, and allowed to remain open overnight to allow the groundwater to reach a static level. On May 1, 2003, the water level was measured at 52.5 feet below ground surface, using a Heron interface probe. By lowering a dedicated disposable polyethylene bailer into the open borehole, approximately four gallons of water was purged prior to obtaining a groundwater sample. The groundwater sample was carefully poured into laboratory-prepared containers, labeled, immediately chilled in an ice chest, and transferred under chain-of-custody control to Environmental Lab of Texas I, Ltd., in Odessa, Texas. A duplicate sample was collected by the NMOCD.

The groundwater sample was analyzed for chloride, and for BTEX by EPA method SW-8021B/5030. All BTEX constituents, except p/m xylene (0.002 milligrams per liter), were reported below detection limits. The NMWQCC human health standard for xylene is 0.62 mg/L. Chloride was reported at 155 mg/L. Table 2 provides a summary of

Mr. Paul Sheeley May 14, 2003 Page 3

groundwater analytical results. Appendix B provides laboratory and chain-of-custody documentation.

The boring was filled with bentonite chips and hydrated with potable water upon completion of groundwater sampling activities.

Approximately 10,000 yd^3 of clean soil is stockpiled at the Site, awaiting backfilling of the excavations. ChevronTexaco requests the NMOCD allow it to fill the excavations. A final letter will be submitted to the NMOCD upon completion.

Per our conversation of May 9, 2003, it is noted that a bluish-gray tinted area of siltstone was encountered in the excavated area to the north of Hole #2, at a depth of approximately 19 to 29 feet bgs. The tinted siltstone is visible in Figure 4 of the April 7, 2003 report previously submitted to the NMOCD. All areas of tinted siltstone were sampled, and results were all below the recommended remediation action level of 100 ppm for this Site. Sample locations and analytical information can be found in the April 7, 2003 report.

Please call Mr. Scott Toner with ChevronTexaco at (915) 687-7318 or myself at (915) 687-0901 if you have questions.

Sincerely, Larson and Associates, Inc.

indy K. Grain

Cindy K Crain Geologist

Encl.

cc: Scott Toner, ChevronTexaco William Olson, OCD Hydrologist

TABLES

Table 1:Summary of Headspace and Laboratory Analysis of Soil Samples
Texaco Exploration and Production Inc., McKinley Lease
NE/4, NE/4, Section 30, Township 18 South, Range 38 East
Lea County, New Mexico

Borehole Number	Sample Date	Sample	PID	GRO	DRO	TPH	Chloride
ivumbei	Date	Depth (feet BGS)	(ppm)	C6-C12 mg/kg	>C12-C35 mg/kg	(C6-C35) mg/kg	mg/kg
RRAL		/	t			100	250
BH-13	12/5/2002	0-1	1	<10.0	<10.0	<10.0	
		10-11	1	<10.0	<10.0	<10.0	
		20-21	6.1	<10.0	190.0	190.0	
		30-31	5.5	<10.0	<10.0	<10.0	
		50-51	3.1	<10.0	<10.0	<10.0	
BH-14	4/30/2003	0-1	0.1	<10.0	<10.0	<10.0	<20.0
		5-6	0.3	<10.0	<10.0	<10.0	<20.0
		10-11	0.1	<10.0	<10.0	<10.0	160.0
		15-16	0.1	<10.0	<10.0	<10.0	88.6
		20-21	0.3	<10.0	<10.0	<10.0	142.0
		25-26	58.7	199.0	854.0	1053.0	35.4
		30-31	7.6	<10.0	<10.0	<10.0	<20.0
		35-36	13.0	<10.0	<10.0	<10.0	<20.0
		40-41	4.8	<10.0	<10.0	<10.0	<20.0
		45-46	0.1	<10.0	<10.0	<10.0	29.5
		50-51	0.1	<10.0	<10.0	<10.0	29.5
		55-56	0.1	<10.0	<10.0	<10.0	35.4

Notes: All analyses performed by Environmental Lab of Texas, Inc., Midland, Texas

1. BGS: Depth in feet below ground surface

- 2. PID: Photoionization detector
- 3. ppm: Parts per million
- 4. GRO: Gasoline-range organics
- 5. DRO: Diesel-range organics
- 6. TPH: Total petroleum hydrocarbons (Sum of GRO + DRO)
- 7. mg/kg Milligrams per kilogram
- 8. ---: No data available
- 9. <: Below method detection limit
- 10. RRAL: NMOCD Recommended Remediation

Table 2:Summary of BTEX and Chloride Analysis of Groundwater Samples
Texaco Exploration and Production Inc., McKinley Lease
NE/4, NE/4, Section 30, Township 18 South, Range 38 East
Lea County, New Mexico

Well Number	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl benzene (mg/L)	p/m Xylene (mg/L)	o- Xylene (mg/L)	Total BTEX (mg/L)	Chloride (mg/L)
BH-14	05/01/03	<0.001	<0.001	<0.001	0.002	<0.001	<0.006	155.0

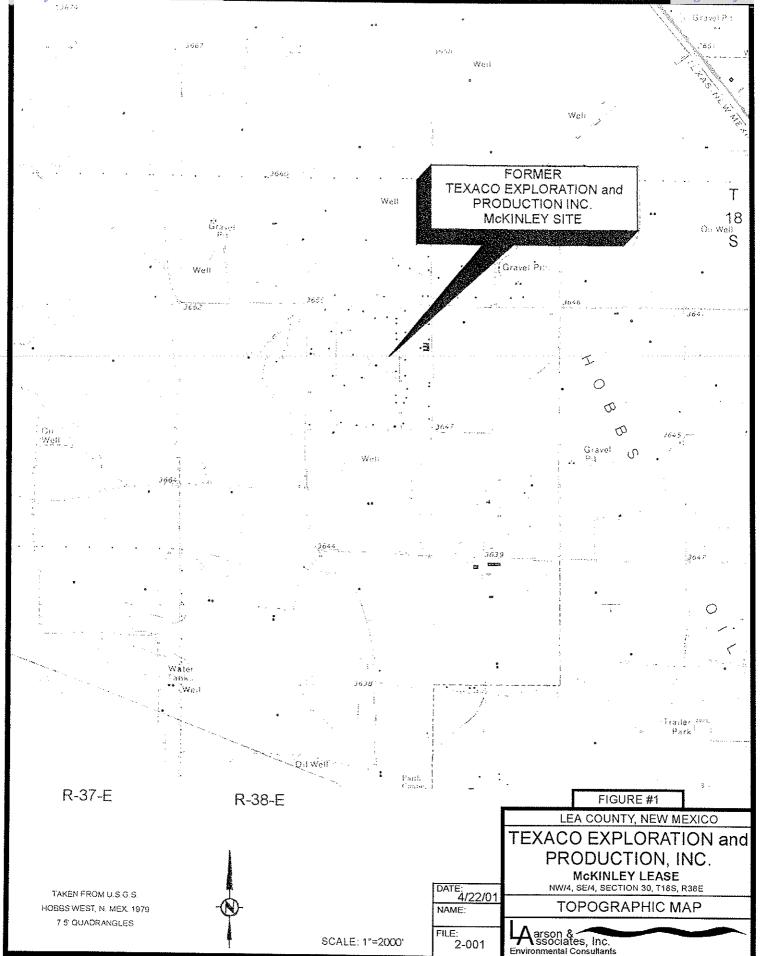
Notes: Analyses performed by Environmental Lab of Texas I, Ltd., Odessa, Texas

- 1. mg/L: Concentration in milligrams per liter
- 2. <: Concentration below test method detection limit

FIGURES

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APPPENDIX A

BORING LOG

. Released to Imaging: 3/22/2022 3:05:10 PM

Client: Texaco E&P

Project: Davis Property (McKinley Lease)

Project No: 2-0100

Location: SW/4, NE/4, Section 30, T18S, R38E, Lea Co., NM

Log of Borehole: BH-14

Geologist: Cindy K. Crain

Page: 1 of 1

	S	UBSURFACE PROFILE	S	AMP	LE		
Depth	Symbol	Description	Number	Type	Recovery	PID Measurement (PPM) 20 40	Lab Analysis
0-		Ground Surface				D.1	0 - 1' bgs
	·):::::::	Silty Sand 5 YR 4/3, reddish brown quartz sand, fine to	1				Total TPH: <10.0 mg/kg
5-		very fine grained, poorly sorted, loose, dry.	/			D.3	5 - 6' bgs
	- <u>-</u>	7.5 YR 7/3 to 8/1, pink to white guartz sand,	2				Total TPH: <10.0 mg/kg
10-		very fine grained, dry	3			D.1	10 - 11' bgs
							Total TPH: <10.0 mg/kg
15-			4			D.1	15 - 16' bgs
- 20						D.3	Total TPH: <10.0 mg/kg
20			5			0.3	20 - 21' bgs Total TPH: <10.0 mg/kg
25-	· · · · · · · · · · · · · · · · · · ·	Silty Sand				58.7	
		5 YR 5/3, reddish brown quartz sand, fine grained, moderately well sorted, loose, dry	6				25 - 26' bgs Total TPH: 1,053 mg/kg
30-		Siltstone		 		7.6	30 - 31' bgs
		7.5 YR 8/1, white, inorganic silt, very fine grained, poorly sorted, dense, dry.	7	 		5	Total TPH: <10.0 mg/kg
35-				╎┓┓		13.0	35 - 36' bgs
1	┊┸╶┦╴┩╴┩┊	Sand	8	<mark>┼┈┛╶┩</mark> ─		ł /	Total TPH: <10.0 mg/kg
40-		7.5 YR 7/3, fine grained, very poorly sorted, loose dry.	9	┼┰┰╴		4.8	40 - 41' bgs
		Becomes moist at 48 feet below ground surface (bgs).		<mark>∤╍</mark> ₽┈₽┈╸		1/	Total TPH: <10.0 mg/kg
45-		Surdee (bgs).	10			D.1	45 - 46' bgs
-							Total TPH: <10.0 mg/kg
50-			11			D.1	50 - 51' bgs Total TPH: <10.0 mg/kg
55						D.1	
			12				55 - 56' bgs Total TPH: <10.0 mg/kg
- 60							Groundwater Sample: (5/1/03)
-	···· · · ·	End of Borehole at 61 ft					Total BTEX: <0.006 mg/L
65-							Chloride: 155 mg/L
70-							
Dri	llina M	lethod: Air Rotary					
		Laisui Com Na	and As			nc. Cheo Ste. 202	cked by: CKC
		Midlan	d, Texa	s 797			ed by: Scarborough Drilling, Inc.
Ho	le Size	e: 5 5/8" (915) 6	87-0901				

APPENDIX B

LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

. Released to Imaging: 3/22/2022 3:05:10 PM

ANALYTICAL REPORT

Prepared for:

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710

Project: Texaco McKinley

PO#: 2-0100

Order#: G0306388

Report Date: 05/02/2003

<u>Certificates</u> US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 915-687-0456 Order#: G0306388 Project: Project Name: Texaco McKinley Location:

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 <u>Received</u>	<u>Container</u>	Preservative
	BH-14 (0-1')	SOIL		4/30/03	4/30/03	4 oz Glass	Ice
0306388-01	B11-14 (0-1)	SOIL		11:15	16:50	4 02 Olass	icc .
La	<u>b Testing:</u>	Rejected:	No	Tem			
	8015M						
	Chloride						
0306388-02	BH-14 (5-6')	SOIL		4/30/03 11:20	4/30/03 16:50	4 oz Glass	Ice
La	<u>b Testing:</u>	Rejected:	No	Tem	p: 4 C		
	8015M						
	Chloride						
0306388-03	BH-14(10-11')	SOIL		4/30/03 11:29	4/30/03 16:50	4 oz Glass	Ice
La	<u>b Testing:</u>	Rejected:	No	Tem	p: 4 C		
	8015M						
	Chloride						
0306388-04	BH-14 (15-16')	SOIL		4/30/03 11:32	4/30/03 16:50	4 oz Glass	Ice
La	<u>b Testing:</u>	Rejected:	No	Tem	p: 4 C		
	8015M						
	Chloride						
0306388-05	BH-14 (20-21')	SOIL		4/30/03 11:49	4/30/03 16:50	4 oz Glass	Ice
La	<u>b Testing:</u>	Rejected:	No	Tem	p: 4 C		
	8015M						
	Chloride						
0306388-06	BH-14 (25-26')	SOIL		4/30/03 12:05	4/30/03 16:50	4 oz Glass	Ice
La	<u>b Testing:</u>	Rejected:	No	Tem	p: 4 C		
	8015M						
	Chloride						
0306388-07	BH-14 (30-31')	SOIL		4/30/03 12:10	4/30/03 16:50	4 oz Glass	Ice
Lai	<u>b Testing:</u>	Rejected:	No	Теп			

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 915-687-0456 Order#: G0306388 Project: Project Name: Texaco McKinley Location:

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.

<u>Lab ID:</u>	<u>Sample :</u> 8015M Chloride	<u>Matrix:</u>	Date / Time Collected	Date / Time <u>Received</u>	Container	Preservative
0306388-08	BH-14 (35-36')	SOIL	4/30/03 12:18	4/30/03 16:50	4 oz Glass	Ice
<u>La</u>	ib Testing:	Rejected: No	Ter	np: 4 C		
	8015M					
	Chloride					
0306388-09	BH-14 (40-41')	SOIL	4/30/03 12:28	4/30/03 16:50	4 oz Glass	Ice
La	<u>ıb Testing:</u>	Rejected: No	Ter	np: 4 C		
	8015M					
	Chloride					
0306388-10	BH-14 (45-46')	SOIL	4/30/03 12:41	4/30/03 16:50	4 oz Glass	Ice
La	b Testing:	Rejected: No	Ter			
	8015M	Ŭ		r.		
	Chloride					
0306388-11	BH-14 (50-51')	SOIL	4/30/03 12:54	4/30/03 16:50	4 oz Glass	Ice
La	<u>b Testing:</u>	Rejected: No	Ter	ոթ։ 4 C		
	8015M					
	Chloride					
0306388-12	BH-14 (55-56')	SOIL	4/30/03 13:08	4/30/03 16:50	4 oz Glass	Ice
La	<u>b Testing:</u>	Rejected: No	Ter	np: 4 C		
	8015M					
	Chloride					

				Order#:				
CINDY CRAIN	INDY CRAIN ARSON AND ASSOCIATES, INC.)6388		
LARSON AND A P.O. BOX 50685	1550CIA I ES, INC.			Project: Project Nan	nos Texa	co McKinley		
MIDLAND, TX 79710				Location:	псі ісла	co merchiney		
Lab ID:	0306388-01							
Sample ID:	BH-14 (0-1')							
				8015M				
	Method	Date	Date	Sample	Dilution			
	Blank	<u>Prepared</u>	<u>Analyzed</u> 5/1/03	Amount	<u>Factor</u>		Method	
			5/1/05	ł	1	WL	8015M	
		f						
		Parameter		Resu		RL		
		GRO, C6-C12		mg/k		10.0		
		DRO, >C12-C35		<10.		10.0		
		TOTAL, C6-C35		<10.		10.0	1	
		·,		i				
		Surrog	ates	% Recovered	QC Lin	nits (%)		
		1-Chlorooc	tane	99%	70	130		
		1-Chlorooc	tadecane	96%	70	130		
Lab ID:	0306388-02							
Sample ID:	BH-14 (5-6')							
				8015M				
	Method	Date	Date	Sample	Dilution	1		
	Blank	Prepared	Analyzed	Amount	<u>Factor</u>	<u>Analyst</u>	Method	
	LIMIN		5/1/03				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

Surrogates	% Recovered	QC Limits (%)		
1-Chlorooctane	104%	70	130	
1-Chlorooctadecane	102%	70	130	

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

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

Page 1 of 6

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX				Order#: Project: Project Nan Location:	G03063 ne: Texaco	388 McKinley		
Lab ID: Sample ID:	0306388-03 BH-14(10-11')							
				8015M				
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method	
			5/1/03	1	1	WL	8015M	
		Parameter		Resu mg/k		RL		
		GRO, C6-C12		<10.	<u> </u>	10.0		
		DRO, >C12-C35	5	<10.	0	10.0		
		TOTAL, C6-C3	5	<10.	0	10.0		
		Surrog	ates	% Recovered	QC Limit	s (%)		
		1-Chlorooc	tane	83%	70	130		
		1-Chlorooc	tadecane	75%	70	130		
Lab ID: Sample ID:	0306388-04 BH-14 (15-16')							
				8015M				
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method	
			5/1/03	1	1	WL	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

Surrogates	% Recovered	QC Limits (%)		
1-Chlorooctane	85%	70	130	
1-Chlorooctadecane	79%	70	130	

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

Page 2 of 6

CINDY CRAIN				Order#:	G0	306388		
	SSOCIATES, INC.			Project:				
P.O. BOX 50685				Project Nam	ie: Te	xaco McKinley		
MIDLAND, TX	79710			Location:				
Lab ID: Sample ID:	0306388-05 BH-14 (20-21')							
				8015M				
	Method	Date	Date	Sample	Diluti	07		
	Blank	Prepared	Analyzed	Amount	Facto		Method	
			5/1/03	1	1	WL	8015M	
		<u></u>						
		Parameter		Resu mg/k		RL		
		GRO, C6-C12		<10.0	-	10.0		
		DRO, >C12-C35		<10.0		10.0		
		TOTAL, C6-C35	5	<10.0)	10.0		
						······,		
		Surrog	ates	% Recovered	QC L	imits (%)		
		1-Chlorooc	tane	89%	70	130		
		1-Chlorooc	ladecane	81%	70	130		
Lab ID:	0306388-06							
Sample ID:	BH-14 (25-26')							
				8015M				
	Method	Date	Date	Sample	Diluti	on		
	Blank	Prepared	Analyzed	Amount	Facto		Method	
			5/1/03	1	I	WL	8015M	
				Resu	1+	NT		
		Parameter		mg/k		RL		

Parameter	mg/kg	RL
GRO, C6-C12	199	10.0
DRO, >C12-C35	854	10.0
TOTAL, C6-C35	1,053	10.0

Surrogates	% Recovered	QC Li	mits (%)	
1-Chlorooctane	98%	70	130	
1-Chlorooctadecane	85%	70	130	

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

Page 3 of 6

ENVIRONMENTAL LAB OF TEXAS I, LTD.

CINDY CRAIN LARSON AND A P.O. BOX 50685 MIDLAND, TX				Pr Pr	rder#: 'oject: 'oject Namo ocation:		06388 aco McKinley		
Lab ID: Sample ID:	0306388-07 BH-14 (30-31')								
Sumpre ser	<i>"</i>			80157	М				
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 5/1/03	Sa	mple nount	Dilutio <u>Factor</u> 1		<u>Method</u> 8015M	
					-	-			
		Parameter			Resul mg/kg		RL		
		GRO, C6-C12			<10.0		10.0		
		DRO, >C12-C35			<10.0		10.0		
		TOTAL, C6-C35	5		<10.0		10.0		
		Surrog	ates	% R	tecovered	QC Li	nits (%)		
		1-Chlorooc	tane		76%	70	130		
		1-Chlorooc	tadecane		71%	70	130		
Lab ID: Sample ID:	0306388-08 BH-14 (35-36')								
				8015]	М				
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 5/1/03		mple <u>nount</u> 1	Dilutio <u>Factor</u> 1		<u>Method</u> 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

Surrogates	% Recovered	QC Limits (%)			
1-Chlorooctane	86%	70	130		
1-Chlorooctadecane	81%	70	130		

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Page 4 of 6

CINDY CRAIN ARSON AND A O. BOX 50685 HDLAND, TX				Order#: Project: Project Nam Location:)6388 .co McKinley	
Lab ID: Sample ID:	0306388-09 BH-14 (40-41')						
				8015M			
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>		Method
			5/1/03	1	1	WL	8015M
		Parameter		Resu mg/k		RL	
		GRO, C6-C12		<10.0	0	10.0	
		DRO, >C12-C35		<10.0		10.0	
		TOTAL, C6-C35		<10.	0	10.0	
		Surroga	ites	% Recovered	QC Lin	nits (%)	
		1-Chlorooct		88%	70	130	
		1-Chlorooct	adecane	82%	70	130	
Lab ID: Sample ID:	0306388-10 BH-14 (45-46')						
				8015M			
	Method	Date	Date	Sample	Dilution		
	Blank	Prepared	Analyzed	Amount	<u>Factor</u>		Method
			5/1/03	1	1	WL	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	

Surrogates	% Recovered	QC Limits (%)		
1-Chlorooctane	83%	70	130	
1-Chlorooctadecane	77%	70	130	

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

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

Page 5 of 6

CINDY CRAIN	SOCIATES DIC			Order#:	G03	06388		
ARSON AND AS P.O. BOX 50685	SOCIATES, INC.			Project: Project Nam	a. Taw	aco McKinley		
AIDLAND, TX 7	9710			Location:	e: Texa	aco wickiniey		
				Liocation.				
Lab ID:	0306388-11							
Sample ID:	BH-14 (50-51')							
				8015M				
	Method	Date	Date	Sample	Dilutio	n		
	Blank	Prepared	Analyzed	Amount	Factor	Analyst	Method	
			5/1/03	1	1	WL	8015M	
		Parameter		Resul	t	RL		
		1 arameter	and the second	mg/kg	g	ILL		
		GRO, C6-C12		<10.0		10.0		
		DRO, >C12-C35		<10.0		10.0		
		TOTAL, C6-C35		<10.0		10.0		
		Surroga	ates	% Recovered	QC Li	nits (%)		
		1-Chlorooct	ane	81%	70	130		
		1-Chlorooct	adecane	74%	70	130		
Lab ID:	0306388-12							
Sample ID:	BH-14 (55-56')							
				8015M				
	Method	Date	Date	Sample	Dilutio	n		
	Blank	Prepared	Analyzed	Amount	Factor		Method	
			5/1/03	1	1	WL	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

Surrogates	% Recovered	QC Limits (%)			
1-Chlorooctane	81%	70	130		
1-Chlorooctadecane	72%	70	130		

Approval: Calandk 5-02-03

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.

Date

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

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

Page 6 of 6

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

CINDY CRAIN LARSON AND P.O. BOX 5068 MIDLAND, TY	ASSOCIATES, INC. 5		Order# Project Project Locatio	t: t Name: Te)306388 xaco McK	inley		
Lab ID: Sample ID:	0306388-01 BH-14 (0-1')							
Test Paran Parameter	neters	Result	Units	Dilution <u>Factor</u>	<u>RL</u>	Method	Date Analyzed	Analyst
Chloride		<20.0	mg/kg	1	20	9253	5/1/03	СК
Lab ID: Sample ID:	0306388-02 BH-14 (5-6'0							
Test Param Parameter	neters	Result	Units	Dilution <u>Factor</u>	<u>RL</u>	Method	Date Analyzed	<u>Analys</u> t
Chloride		<20.0	mg/kg	1	20	9253	5/1/03	СК
Lab ID: Sample ID:	0306388-03 BH-14(10-11')							
Test Paran Parameter	neters	Result	Units	Dilution <u>Factor</u>	<u>RL</u>	Method	Date Analyzed	Analys
Chloride		160	mg/kg	ł	20	9253	5/1/03	СК
Lab ID: Sample ID:	0306388-04 BH-14 (15-16')							
Test Paran Parameter	neters	Result	Units	Dilution <u>Factor</u>	<u>RL</u>	Method	Date Analyzed	Analys
Chloride		88.6	mg/kg	1	20	9253	5/1/03	СК
Lab ID: Sample ID:	0306388-05 BH-14 (20-21')							
Test Paran Parameter	neters	<u>Result</u>	Units	Dilution <u>Factor</u>	<u>RL</u>	Method	Date <u>Analyzed</u>	<u>Analys</u>
Chloride		142	mg/kg	1	20	9253	5/1/03	СК
Lab ID: Sample ID:	0306388-06 BH-14 (25-26')							
Test Paran Parameter Chloride	neters	<u>Result</u> 35.4	<u>Units</u> mg/kg	Dilution <u>Factor</u> 1	<u>RL</u> 20	<u>Method</u> 9253	Date Analyzed 5/1/03	<u>Analys</u> CK

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Page 1 of 3

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

CINDY CRAIL	N D ASSOCIATES, INC.		Order# Project		G0306388			
P.O. BOX 5068 MIDLAND, T	85		-	t Name:	Texaco McK	inley		
Lab ID: Sample ID:	0306388-07 BH-14 (30-31')							
Test Paran		Result	Units	Dilutio Facto		Method	Date Analyzed	<u>Anaiyst</u>
Chloride		<20.0	mg/kg	1	20	9253	5/1/03	CK
Lab ID: Sample ID:	0306388-08 BH-14 (35-36')							
Test Parai	meters			Dilutio		N# .1 1	Date	
Parameter Chloride		<u>Result</u> <20.0	Units mg/kg	<u>Facto</u> l	<u>r RL</u> 20	<u>Method</u> 9253	Analyzed 5/1/03	<u>Analyst</u> CK
Lab ID:	0306388-09							
Sample ID:	BH-14 (40-41')							
Test Paran Parameter	meters	<u>Result</u>	Units	Dilutio <u>Facto</u>		Method	Date <u>Analyzed</u>	<u>Analys</u>
Chloride		<20.0	mg/kg	1	20	9253	5/1/03	CK
Lab ID: Sample ID:	0306388-10 BH-14 (45-46')							
<i>Test Paran</i> Parameter		Result	Units	Dilutio Facto		Method	Date Analyzed	Analyst
Chloride		29.5	mg/kg	1	20	9253	5/1/03	CK
Lab ID: Sample ID:	0306388-11 BH-14 (50-51')							
Test Paran Parameter	neters	Result	Units	Dilutio <u>Facto</u>		Method	Date Analyzed	Analys
Chloride		29.5	mg/kg	1	20	9253	5/1/03	СК
Lab ID: Sample ID:	0306388-12 BH-14 (55-56')							
Test Paran	neters	<u>Result</u>	Units	Dilutio <u>Facto</u>		Method	Date Analyzed	Analys
Chloride		35.4	mg/kg	1	20	9253	5/1/03	CK

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ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 Order#: G0306388 Project: Project Name: Texaco McKinley Location:

Approval: 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

Page 3 of 3

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

8015M

Order#: G0306388

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0005404-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0306388-04	0	952	775	81.4%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0306388-04	0	952	768	80.7%	0.9%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0005404-05		1,000	858	85.8%	

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

Test Parameters

Order#: G0306388

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0005391-01			<20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0306371-01	88.6	500	638	109.9%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0306371-01	88.6	500	603	102.9%	5.6%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	· · · · · · · · ·	0005391-04		5000	5050	101.%	

CLIENT NAME:	ŢĒ.			SITE MANAGER:	2			
	EXALO			Circhy	Crain	PAKAN		
PROJECT NO	NO .: 2-0100	00		PROJECT NAME	intey	WS.		Acrson & Sociates, Inc. Fax: 915-687-0456
PAGE /	/ OF	į	LAB.	LAB. PO #		108		507 N. Marienfeld, Ste. 202 • Midland, TX 79701
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COMMENTS	TS:				عر		TURNAROUND TIME NEEDED	WHITE - RECEIVING LAB
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SAMPLE CONDITION WHEN RECEIVED	IDITION WH	IEN RECEIV	ÆD;			LA CONTACT PERSON:	son:	SAMPLE TYPE:
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ANALYTICAL REPORT

Prepared for:

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710

Project: Texaco/ Mckinley

PO#:

Order#: G0306397

Report Date: 05/07/2003

<u>Certificates</u> US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710 915-687-0456 Order#:G0306397Project:2-0100Project Name:Texaco/ MckinleyLocation:None Given

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.

			Date / Time	Date / Time		
Lab ID:	Sample :	<u>Matrix:</u>	Collected	Received	Container	Preservative
0306397-01	BH-14	WATER	5/1/03	5/1/03	See COC	See COC
00000077 01			13:05	17:05		
La	<u>b Testing:</u>	Rejected: No	Ten	ւթ: 4 C		
	8021B/5030 BTEX					
	Chloride					

CINDY CRAIN	Order#:	G0306397
LARSON AND ASSOCIATES, INC.	Project:	2-0100
P.O. BOX 50685	Project Name:	Texaco/ Mckinley
MIDLAND, TX 79710	Location:	None Given

Lab ID: 0306397-01 Sample ID: BH-14

		8021B	2/5030 BTEX			
Method <u>Blank</u> 0005454-02	Date <u>Prepared</u>	Date <u>Analyzed</u> 5/6/03 12:30	Sample <u>Amount</u> I	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	<u>Method</u> 8021B
	Parameter		Result mg/L		RL	
	Benzene		<0.001		0.001	
	Toluene		<0.001		0.001	
	Ethylbenzene		<0.001		0.001	
	p/m-Xylene		0.002		0.001	
	o-Xylene		<0.001		0.001	

Surrogates	% Recovered	QC Li	mits (%)
aaa-Toluene	98%	80	120
Bromofluorobenzene	90%	80	120

Approval: Raland F Juil 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. 5-08-03

Date

Page 1 of 1

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Released to Imaging: 3/22/2022 3:05:10 PM

Date

ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

CINDY CRAIN LARSON AND ASSOCIATES, INC. P.O. BOX 50685 MIDLAND, TX 79710		Order# Project Project Locatio	: 2 Name: 7	50306397 2-0100 Fexaco/ Mck None Given	inley		
Lab ID: 0306397-01 Sample ID: BH-14							
<i>Test Parameters</i> Parameter	Result	Units	Dilution Factor	RL	_Method_	Date Analyzed	<u>Analyst</u>
Chloride	155	mg/L	1	5.00	9253	5/2/03	SB

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

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0306397

BLANK	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0005454-02			<0.001		
Toluene-mg/L		0005454-02			<0.001		
Ethylbenzene-mg/L		0005454-02			<0.001		
p/m-Xylene-mg/L		0005454-02			<0.001		
o-Xylene-mg/L		0005454-02			< 0.001		
CONTROL	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0005454-03		0.1	0.105	105.%	
Toluene-mg/L		0005454-03		0.1	0.098	98.%	
Ethylbenzene-mg/L		0005454-03	**************************************	0.1	0.097	97.%	
p/m-Xylenc-mg/L		0005454-03		0.2	0.192	96.%	
o-Xylene-mg/L		0005454-03		0.1	0.093	93.%	
CONTROL D	UP WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0005454-04		0.1	0.100	100.%	4.9%
Toluene-mg/L		0005454-04		0.1	0.098	98.%	0.%
Ethylbenzene-mg/L	********	0005454-04		0.1	0.096	96.%	1.%
p/m-Xylene-mg/L		0005454-04		0.2	0.199	99.5%	3.6%
o-Xylene-mg/L		0005454-04		0.1	0.096	96.%	3.2%
SRM	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pet (%) Recovery	RPD
Benzene-mg/L		0005454-05		0.1	0.103	103.%	
Toluene-mg/L		0005454-05		0.1	0.100	100.%	
Ethylbenzene-mg/L		0005454-05		0.1	0.095	95.%	
p/m-Xylene-mg/L		0005454-05		0.2	0.195	97.5%	
o-Xylene-mg/L		0005454-05		0.1	0.092	92.%	

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

Test Parameters

Order#: G0306397

BLANK	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L		0005407-01			<5.00		
MS	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L		0306381-01	301	500	798	99.4%	
MSD	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L		0306381-01	301	500	789	97.6%	1.1%
SRM	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L		0005407-04	······	5000	4960	99.2%	

	CHAIN—OF—CUSTODY RECORD		A arson & Environmental Consultants 915-687-0456 915-687-0901	507 N. Marienfeld, Ste. 202 • Midland, TX 79701	LAB. I.D. REMARKS NUMBER (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, (LAB USE ONLY) GRAB COMPOSITE1	0306397-01							RECEIVED BY: (Signature) DATE:TIME:	E SHIPPED BY: (Circle)	L FEDEX BUS AIRBILL #: HAKIN DELIVERED LIPS OTHER-	ING LAB			sample TYPE: Water
Sed-vay	PARAMETERS/METHOD NUMBER				199D 171.9	7							(Signature) DATE: DATE:	n hi Sensi Se	TIME:	TURNAROUND IIME NEEDED C	BY: (Sig	0-01-00 IIME:// 00	4 C, LA CONTACT PERSON:
520-004 (D)-9 (Z) (Z) (2)	SITE MANAGER:	Lizhy Louis 3.1	PROJECT NAME:		SAMPLE IDENTIFICATION	BH-14							DATE 21/10 RELINQUISHED BY: (Signature) TIME: 2305	DATE: <u>21/10</u> RECEIVED BY: (Signature)	TIME: //02).	CO / RECEIV CU T-20 C RECEIV CTATE. 42 710. 79 70. 4		Lee 4 C. LA C
	CLIENT NAME:	Jeyaro	РРОЈЕСТ NO.: 2 - 0/00	PAGE / OF / LAB. PO #	DILES NOS NULLS DULE	3 1305 V						2	SAMPLED BY: (Signature)	RELINDOISHED BY: (Signature)	and saw	COMMENTS:	RECEIVING LABORATORY: CO ADDRESS: CO ADDRE	2	SAMPLE CONDITION WHEN RECEIVED:

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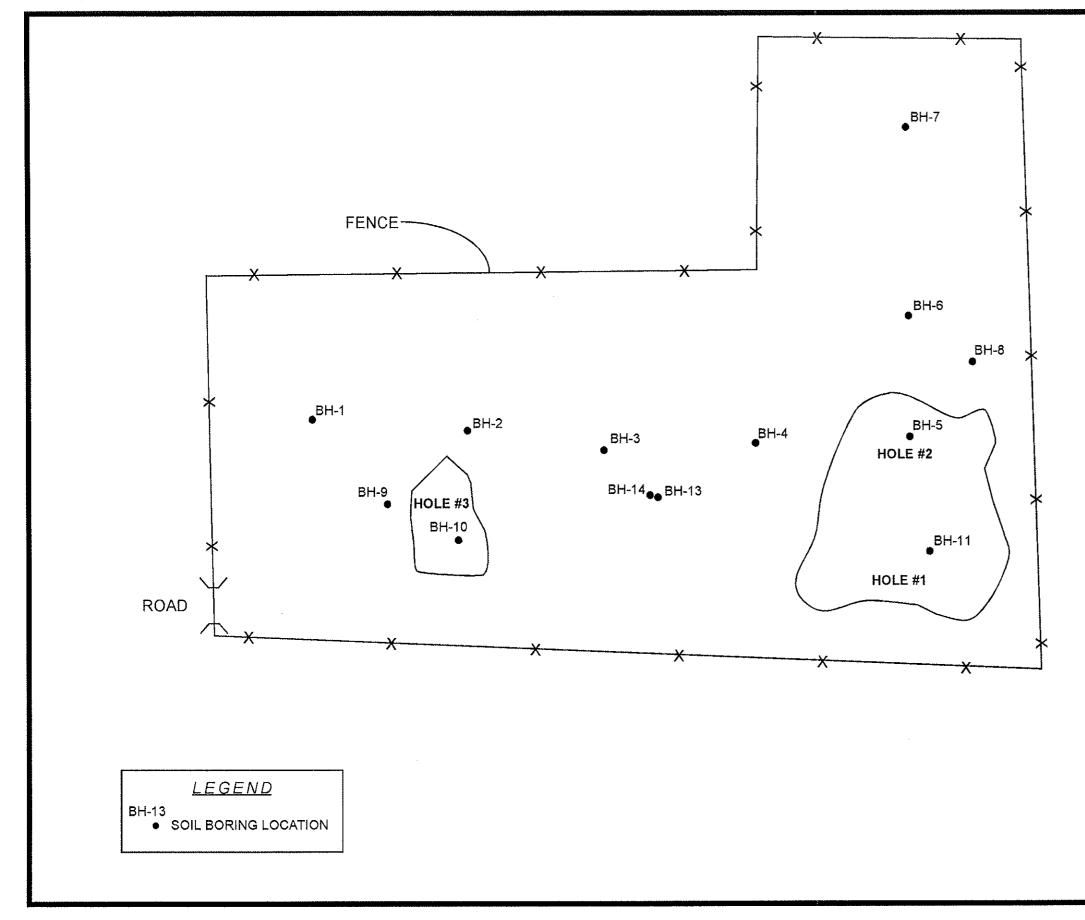
APPENDIX C

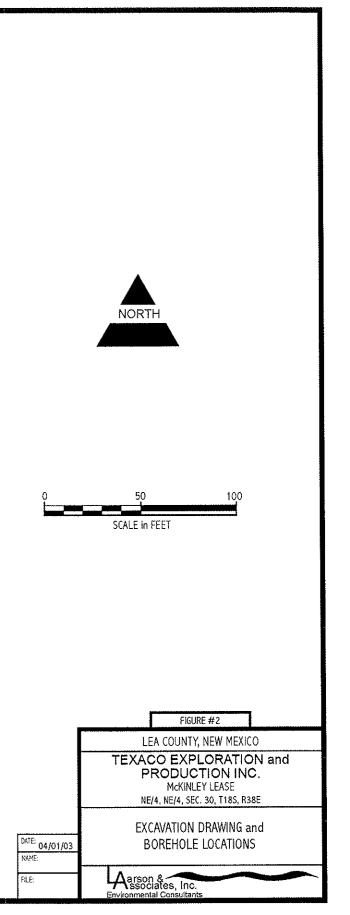
FIELD NOTES

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Ñ 2 COROLLE 0 Wednesday, May 1, 2003. Lary Johnson acrived LAUNE Have notified faul Sheeler 05.0 12.00 Arrived on Site to groundwater @ BH-14 be as site @ - BTEX high Davis Roa Bailed 4. D. ge DTW: 52.5' mp/ed 1230 0430 des site the deill BIT-H. Enriveringh Dilg. Accived 07 site 0440 - Jim Davis by site 1000 Paul Juny. 111 11:35 1330 Covered bacing to sit over night Paul Specky & Jun Waris Calibrated PID to 100, 1 pom Onek Cal Gas - 100,0 ppm bas Tiledresday, April 30, 2003 azel attow ground wher to accurationes in borchole 50 Collected Samples & Such and every 5' to 55' er site Hugh Davis er site Drilled Bit 14 40 60' Began drilling · 0/~10: 3:63 1210 1300 **Released to Imaging:**

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August 9, 2004

VIA FACSIMILE: (505) 393-0720

Mr. Paul R. Sheeley New Mexico Oil Conservation Division 1625 N. French Drive Hobbs, New Mexico 88240

Re: Excavation Backfill Results, Former M^cKinley Lease Production Facility, UL A, Section 30, Township 18 South, Range 38 East, Lea County, New Mexico

Dear Mr. Sheeley:

ChevronTexaco Exploration and Production Company (ChevronTexaco), as successor to Texaco Exploration and Production Inc. (Texaco), has retained Larson and Associates, Inc. (LA) to supervise remediation of soil at a former oilfield production facility (Site) once operated by Texaco at the McKinley Lease, located in Unit Letter A (NE/4 NE/4), Section 30, Township 18 South, Range 38 East, Lea County, New Mexico. Figure 1 presents a location and topographic map.

A remediation work plan was submitted to the New Mexico Oil Conservation Division (NMOCD) on January 28, 2002, and approved to excavate soil at three locations where the concentrations of total petroleum hydrocarbons (TPH) exceeded the NMOCD Recommended Remediation Action Level (RRAL) of 100 milligrams per kilogram (mg/kg). Following excavation of approximately 7,288 cubic yards of soil from the three locations (Hole #1, Hole #2 and Hole #3), a Final Remediation Report was submitted to the NMOCD on June 11, 2002. The NMOCD denied closure since a soil sample from the bottom of Hole #3 was above the RRAL (100 mg/kg). The NMOCD also requested that ChevronTexaco investigate an area between the excavations (Hole #2 and Hole #3) since a sample from BH-3 from 20 to 21 feet below ground surface (bgs) reported TPH at 82 mg/kg (below the RRAL).

The results of additional sampling of Hole #3, which showed that TPH was below the RRAL of 100 mg/kg, were presented to the NMOCD in a letter dated September 20, 2002. The letter also stated that Holes #1, #2 and #3 would be filled with clean soil, and a soil boring would be drilled between BH-3 and BH-4, to a depth of approximately 25 feet bgs. The NMOCD approved the work plan in a letter dated October 9, 2002.

Environmental Plus, Inc. (EPI) was retained to fill the excavations with clean soil, and began backfilling Hole #1 and Hole #2 on October 14, 2002. Backfilling was also stopped on that date, when NMOCD personnel visited the Site and observed additional

Mr. Paul R. Sheeley August 9, 2004 Page 2

soil staining at the north end of Hole #2. ChevronTexaco was required to investigate, and remediate as necessary, the soil staining north of Hole #2.

On October 15, 2002, EPI began to excavate soil from the north end of Hole #2. Remediation activities progressed to the north until the final soil samples from the bottom and sides of the excavation reported TPH (DRO and GRO) below 100 mg/kg. On December 5, 2002, soil boring BH-13 was drilled between the two excavations (Hole #2 and Hole #3) and south of BH-3 and BH-4. The soil sample results from excavated areas and from soil boring BH-13 were submitted to the NMOCD on April 7, 2003. A verbal request was made by the NMOCD on April 28, 2003, to provide additional soil samples from the soil boring, as well as a groundwater sample.

On April 30, 2003, soil boring BH-14 was drilled approximately five (5) feet west of BH-13. Soil and groundwater sample results were presented to the NMOCD on May 14, 2003, with a request that the NMOCD allow ChevronTexaco to backfill the remaining excavations. Approval to backfill the excavations was granted by the NMOCD on May 19, 2003.

From September 8, 2003 through October 7, 2003, the excavations were filled with clean soil to ground surface, and a one-foot layer of gravel was placed above the soil, covering the entire property. ChevronTexaco has since purchased the property, and requests that no further action be imposed by the NMOCD. Please call Mr. Scott Toner with ChevronTexaco at (432) 687-7318 or myself at (432) 687-0901 if you have questions.

Sincerely, Larson and Associates, Inc.

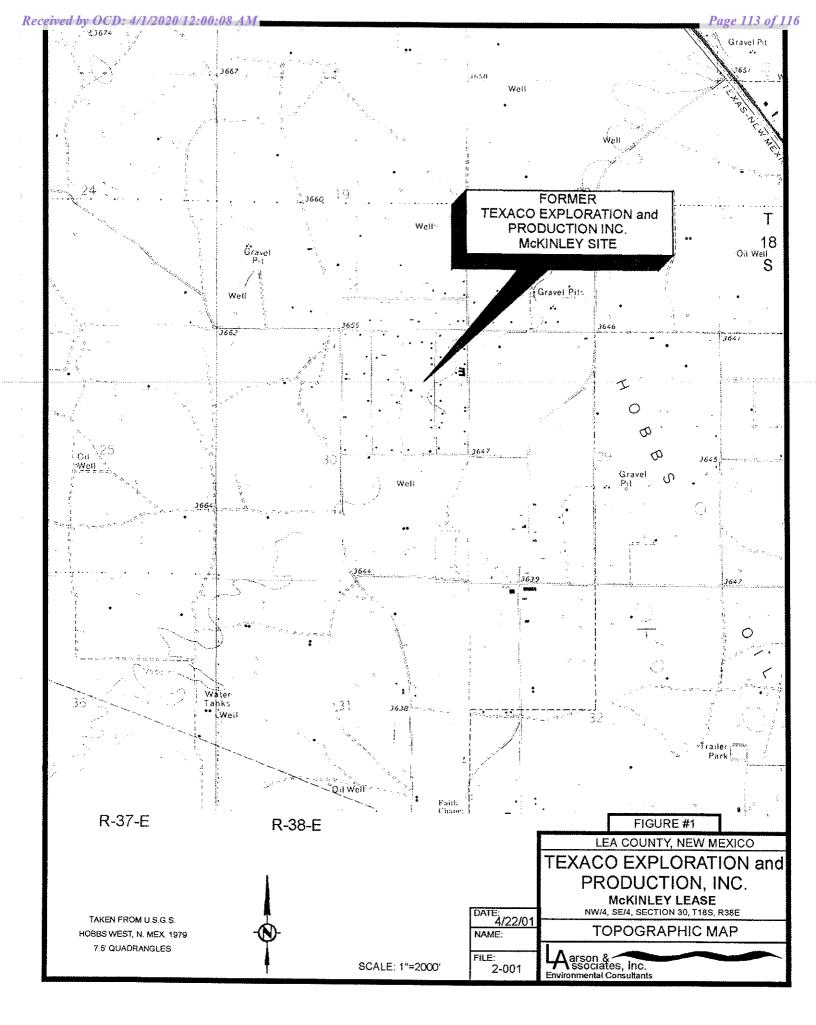
indy K. Crain

Cindy K Crain, PG Project Manager Encl.

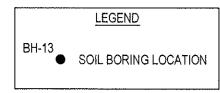
cc: Scott Toner, ChevronTexaco William Olson, OCD Hydrologist

FIGURES

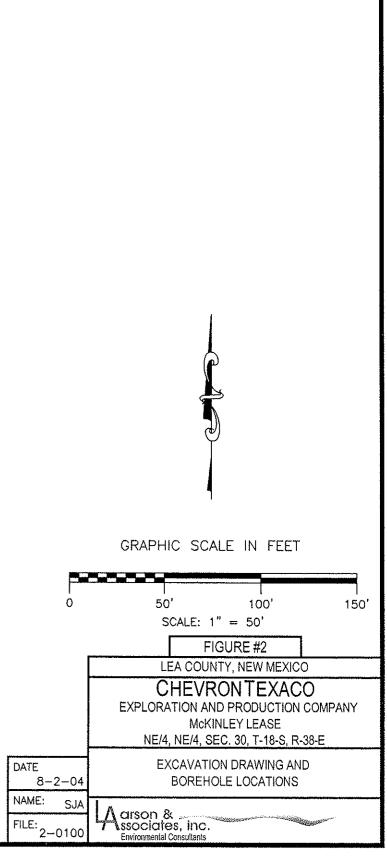
507 North Marienfeld, Suite 202 Midland, Texas 79701 Ph. (432) 687-0901 Fax (432) 687-0456 . *Released to Imaging: 3/22/2022 3:05:10 PM*







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NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary Mark E. Fesmire, P.E. Director Oil Conservation Division

8/16/2005 Denise Beckham Chevron Inc. POB 1150 Midland, Texas 79702

Reference: Texaco McKinley Lease Site Location UL-A Sec.30-T18S-R38E

Dear Denise:

Texaco Inc. has delineated the site. Groundwater tests revealed no contaminates above New Mexico Water Quality Commission standards based on information provided to the New Mexico Oil Conservation Division (NMOCD). There is no further action required.

Please be advised that NMOCD approval does not relieve Texaco Inc. of any future liability should their operations fail to adequately protect groundwater, surface water, human health or the environment. In addition, NMOCD approval does not relieve Texaco Inc. of responsibility for compliance with any Federal, State, or local laws or regulations.

Chris Walliams

NMOCD District1 Supervisor

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

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CONDITIONS

Action 4751

CONDITIONS

Operator:	OGRID:
CHEVRON TEXACO EXPLORATION & PRODUCTION CO.	216419
15 Smith Road	Action Number:
Midland, TX 79705	4751
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
bbillings	Closed under 1r-372 no incident umber	3/22/2022