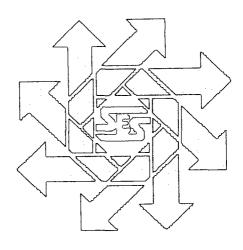
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REPORTS

DATE:

ChevronTexaco CDU Tract 19 Closure Report Section 29, Township 21S, Range 375 Lea County, New Mexico

February 23, 2004



Prepared for:

ChevronTexaco
P.O. Box 1949
Eunice, New Mexico 88231

By:

Safety & Environmental Solutions, Inc. 703 E. Clinton Suite 103 Hobbs, New Mexico 88240 (505) 397-0510

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I. Background

Safety & Environmental Solutions, Inc. (SESI) was contracted by ChevronTexaco to perform assessment and cleanup services on an area identified as the CDU Tract 19 Site. The site is located in Unit J, Section 29, T21S, R37E in Lea County, New Mexico. The subject site is a suspected pit area, which has been used for various purposes by previous owners since the late 1940s. The site is situated on a relatively level site.

II. Contaminant and Size of Area

The suspected contaminant is crude oil and produced water associated with the tank battery at the site. The approximate size of the total fenced area surrounding the pit is 53,000 sq. ft. The estimated square footage of hydrocarbon and produced water contamination is approximately 8,500 sq. ft. No evidence of other contaminants was observed.

III. Surface and Ground Water

SESI has installed four groundwater monitor wells at the site. The depth of water in these wells on December 31, 2003 range from 92.78 to 94.8 feet.

IV. Soils

The soils in the area are predominantly sand and sandy loam.

V. Work Performed

Sampling & Measuring of Existing Monitor Wells

On December 31, 2003 SESI took top of water measurements and sampled all four existing monitor wells. The measurements are as follows:

V	Vell Name	TOC Elevation (ft.)	Date	Depth to Water (ft.)	Water Level Elevation (ft.)
	MW - 1	3,468.72	12/31/04	92.78	3,375.94
	MW - 2	3,469.91	12/31/04	93.62	3,376.29
	MW - 3	3,470.85	12/31/04	94.80	3,376.05
	MW - 4	3,469.03	12/31/04	92.42	3,376.61

SESI prepared water level contour maps using the Plat of Location provided by Pettigrew and Associates on July 9, 2003 and the water level elevations. Copies of the water level contour maps are found in Figure 2. The direction of the groundwater flow is from the northwest to the southeast beneath the subject site. The groundwater flow direction has not changed from the previous map dated April 17, 2003.

Monitor Well # 1 was purged with a hand bailer removing approximately 5 gallons of water. SESI retrieved groundwater samples after purging the well.

Monitor Well # 2 was purged with a hand bailer removing approximately 4.5 gallons of water. SESI retrieved groundwater samples after purging the well.

Monitor Well # 3 was purged with a hand bailer removing approximately 4 gallons of water. SESI retrieved groundwater samples after purging the well.

Monitor Well # 4 was purged with a hand bailer removing approximately 4 gallons of water. SESI retrieved groundwater samples after purging the well.

All four samples were sent under Chain of Custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. The samples were analyzed for BTEX (EPA Method SW-846-8021B, 5030B) and Major Cations & Anions. The results of the analysis are as follows:

DATE	SAMPLE ID	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES
12/31/04	MW#1	< 0.002	< 0.002	< 0.002	< 0.006
12/31/04	MW#2	< 0.002	< 0.002	< 0.002	< 0.006
12/31/04	MW#3	< 0.002	< 0.002	< 0.002	< 0.006
12/31/04	MW#4	< 0.002	< 0.002	< 0.002	< 0.006

DATE	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (mS/cm)	T-Alkalinity (mgCaCO ₃ /L)
12/31/04	MVV#1	566	135	135	9.64	6840	120
12/31/04	MW#2	351	205	205	6.56	4336	147
12/31/04	MW#3	110	67	67	2.95	1586	244
12/31/04	MW#4	238	146	146	5.29	3057	147

DATE	SAMPLE ID	CI (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
12/31/04	MW#1	1919	121	0	146	7.03	4188
12/31/04	MW#2	1100	212	0	180	7.41	2504
12/31/04	MW#3	260	66	0	297	7.57	980
12/31/04	MVV#4	700	193	0	180	7.63	1827

^{*} Red exceeds NM WQCC Groundwater Standards

Closure

The site was excavated both horizontally and vertically for the removal of all highly contaminated and/ or saturated soils. Highly contaminated and/or saturated soils is defined in the, New Mexico Oil Conservation Division's 'Unlined Surface Impoundment Closure Guidelines", February 1993 in Section III (A) (1.) and for the purposes of this site is considered to be soils with THP levels above 25,000 ppm.

The site was excavated to a depth of 8 feet in most area and up 15 feet in others. Approximately 1,780 cubic yards was transported to the ChevronTexaco landfarm near Jal, New Mexico for remediation. Clean soils were excavated and stockpile on site to facilitate liner installation and later used as backfill. Upon completion of the excavation,

Mr. Larry Johnson of the Hobbs District Office of the NMOCD visited the site to observe the final elevations and conditions of the excavation.

Grab samples were retrieved from the bottom of the excavation at the final depths. The samples were sent under chain of custody to Cardinal Laboratories for analysis. The samples were analyzed for TPH (EPA Method 418.1) BTEX, (EPA Method SW-846 8260, and Chlorides (EPA Method 4500-Cl B). The results of the analysis are as follows:

DATE	SAMPLE ID	TPH	CI*	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES
1/16/04	#1	464	18700	<0.005	0.014	0.154	0.306
1/16/04	#2	272	18000	0.018	0.015	0.506	0.737
1/16/04	#3	96	21500	<0.005	<0.005	0.014	0.025
1/16/04	#4	96	16500	<0.005	0.039	0.493	1.29
1/16/04	#5	96	47500	0.006	0.006	0.083	1.12 .
1/16/04	#6	240	8850	<0.005	0.005	<0.005	<0.015

See Figure 3 for sample locations

The deep parts of the excavation were backfilled with the stockpiled soils that were removed from the excavation and an 18 inch layer of sand was placed in the bottom of the entire excavation as a cushion on which the liner will be installed. The bottom of the excavation was domed in the center to facilitate drainage.

The domed area was divided into four sections and five point composite samples were retrieved from each section. The samples were sent under chain of custody to Cardinal Laboratories for analysis. The samples were analyzed for TPH (EPA Method 418.1) BTEX, (EPA Method SW-846 8260, and Chlorides (EPA Method 4500-Cl⁻B). The results of the analysis are as follows:

DATE	SAMPLE ID	ТРН	CI*	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES
1/20/04	Section A	6720	144	<0.005	<0.005	<0.005	<0.015
1/20/04	Section B	14200	208	<0.005	<0.005	0.026	0.072
1/20/04	Section C	6600	224	<0.005	<0.005	0.018	0.032
1/20/04	Section D	4180	128	<0.005	<0.005	<0.005	<0.015

See Figure 3 for sample locations

A 40-millimeter plastic liner measuring 110 X 110 feet was installed in the bottom of the convex floor of the excavation in a manner so that any downward infiltrating water will be diverted to the side edges of the liner. This type of installation will prevent ponding of water on top of the liner and minimize any downward migration of water due to inadvertent puncturing of the liner. The top of the liner is approximately 6 feet below the surface of the area.

Approximately 440 yards of caliche and 636 yards of sand were transported from off site and used to backfill the excavation. Approximately 18 inches of sand was placed immediately on top of the liner as a cushion. The caliche was placed on top of the sand and compacted. The liner and placement of clean backfill will greatly minimize if not eliminate human exposure to organic constituents from any of the exposure pathways listed in the Site Investigation. The surface was returned to its natural contour and will be seeded.

VI. Figures & Appendices

Figure 1 - Vicinity Map

Figure 2 - Water Level Contour Map

Figure 3 - Site Plan

Appendix A - Digging Permit

Appendix B - Certificate of Waste Status

Appendix C - Pit Run Tickets

Appendix D - Analytical Results

Appendix E - Site Photos

Figure 1 Vicinity Map

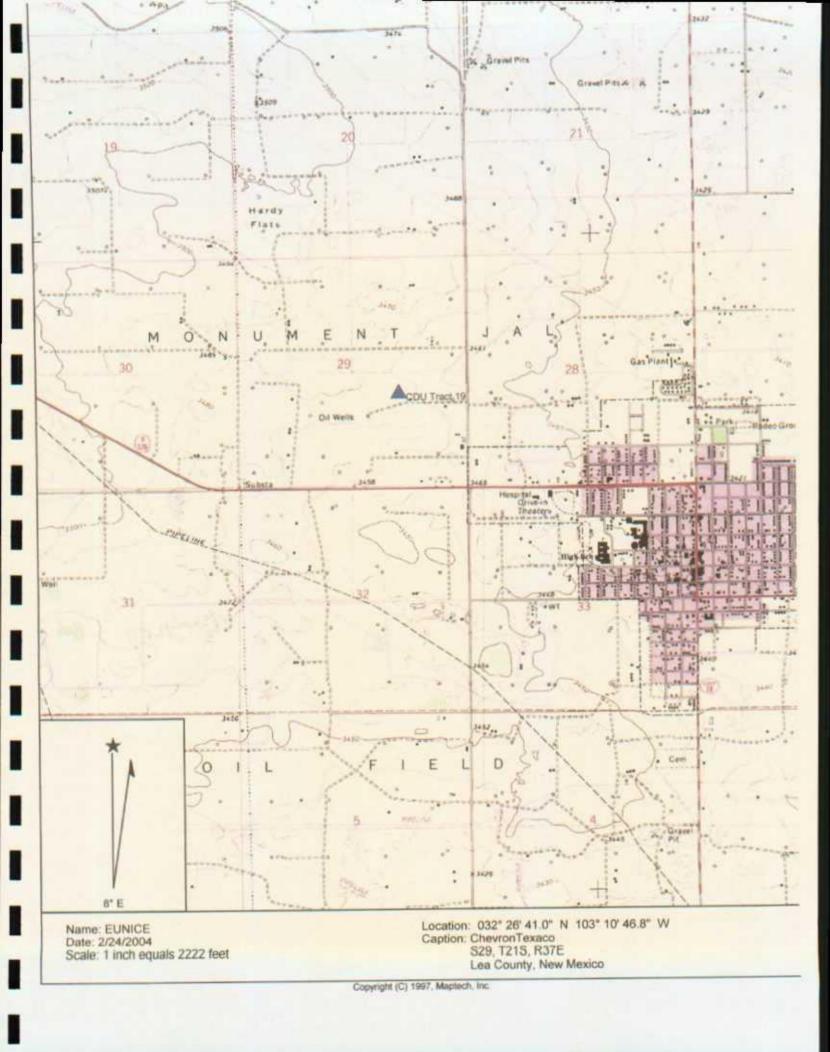


Figure 2 Water Level Contour Map

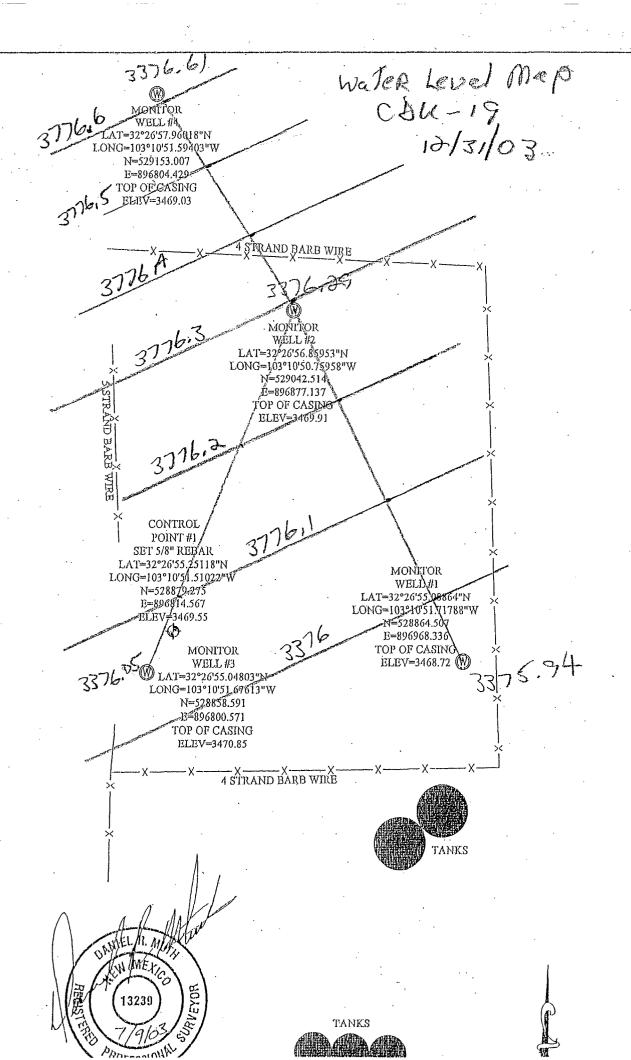
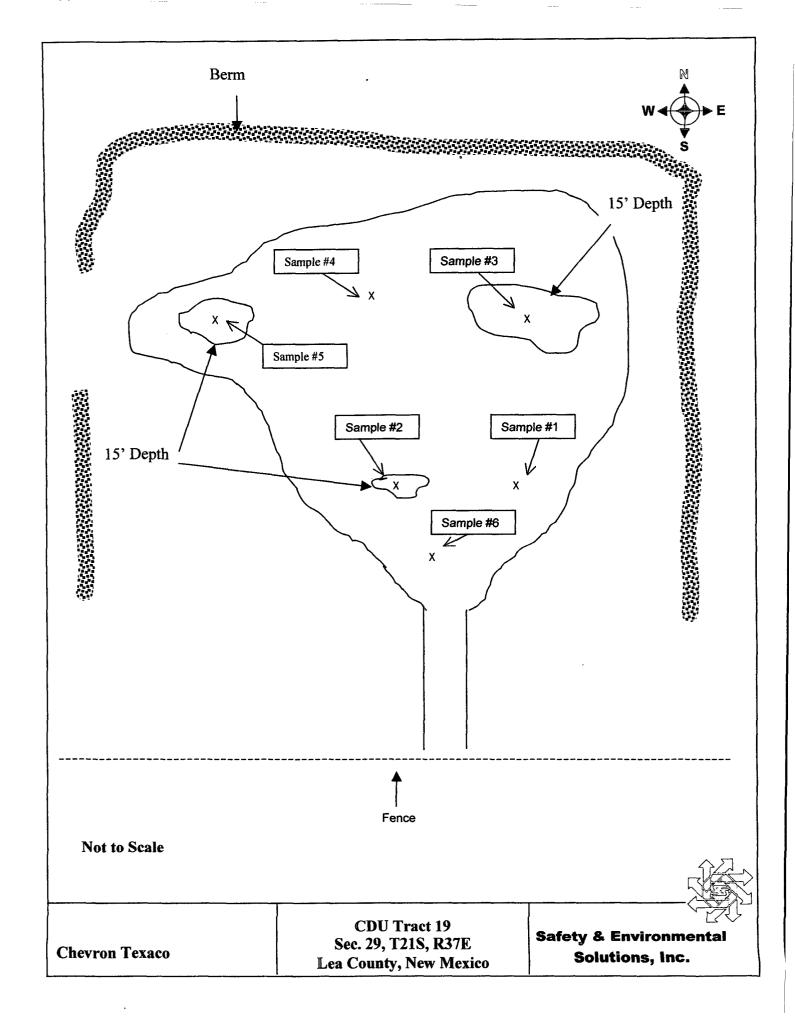
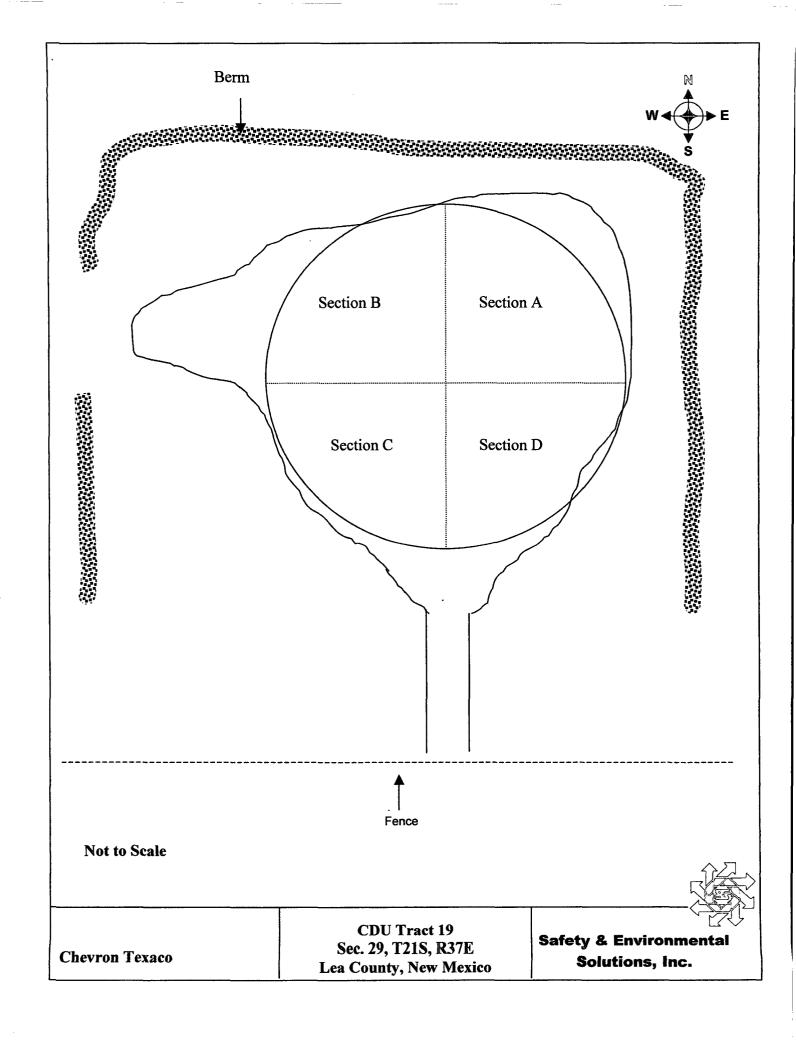


Figure 3 Site Plan





Appendix A Digging Permit

CHEVRON U.S.A. INC.

WEST ASSET TEAM / DIGGING PERMIT



PERMIT FOR DIGGING, TRENCHING, OR EXCAVATING WITH ANY TYPE OF POWERED TOOL OR MECHANIZED EQUIPMENT

Fie	upervisor: Du Trage Date Authorized: 1/3/2004 upervisor: Du Trage Date Authorized: 1/3/2004 upervisor: Stage Date Authorized: 1/3/2004
	pecific Restrictions:ther:
М	echanical digging equipment should not be used within 12" of an underground line.
В	ERMIT REQUIREMENTS: asic Precautions: Has an underground line map been reviewed? Piping plan must be used when work is performed within a facility.
2.	Has the person operating the digging equipment isolated the energy source and performed LOTO? If electrical energy source cannot be accurately located, utilize electrical contractor with electric line locating equipment.
3.	Have digging operations been discussed w/ an employee familiar with the area?
4.	Has a metal detecting line finder been used in the area to be excavated?
5.	Are there any line markers near the excavation area?
6.	Is there a visible right-of-way where the digging will be done?
7.	Are there special concerns with any equipment, i.e., tank batteries, satellites, wells, buildings, power poles, etc., within 150' of the excavation area?
8.	Are there special concerns with overhead power lines within 100' of the excavation?
9.	Will digging exceed 16" in depth? If yes, see Special Precaution below.
10	O. Have you discussed the importance of not creating a spill and what to do if one occurs?
If	contact with a line results in a release of oil and or produced water contact Chevron Representative at Emergency Phone # listed below immediately.
If ut in	pecial Precaution: work is to be performed within a 3 rd party right-of-way, location near a populated area, designated area, or if underground ilities are in the vicinity then 1-800-545-6005 (TX) or 1-800 321-2537 (NM) (One-Call Notification) MUST be made 48 hours advance of any excavation work.
1.	Has One-Call Notification been called?
2.	Has One-Call Notification been called? 123 Date of call: 1-9-04 Time of call: 5'00 Permitted start date and time: 1-13-04 8'00 Estimated duration of job: 2 WEEKS
3.	One-Call Notification confirmation # 2004-02-3310
R If it	HIS PERMIT MUST BE COMPLETED PRIOR TO MECHANICAL DIGGING AND AVAILABLE FOR EVIEW AT THE WORKSITE. contact is made with an underground line or cable, this permit will be attached to the accident report, otherwise, should be attached to the work ticket. R.W. Massey hevron Representative / Emergency Phone # Contractor Contractor

REVISED 02/05/01

Appendix B Certificate of Waste Status

Originating Location CDU Tract 19
Section 29 Township 215 Range 376
Trucking Company Swent
Trucking Company Swept Drivers Signature: Matter Syp
Type of Material Soil
Quantity Joads by 20 yd dump trk= 180 total yds
Cell Number material was placed in landfarm Q6
Comments:
Attendant on duty signature: L
Date 1-13-04
"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste"
Signature All
H.
Wildest Trubing to

Location CDU Track 19
Section 27 Township 215 Range 375
Trucking Company Sweath
Drivers Signature: Mathematical Marketine Mark
Type of Material Seil
Quantity 4 loads by 20 yd dump trk= 40 total yds
Cell Number material was placed in landfarm 26
Comments:
Attendant on duty signature: 1 L Date 1-13-04
"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste" Signature:

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Originating Location CDU Tract 19
Section 27 Township 215 Range & 37E
Trucking Company Sweath
Drivers Signature:
Type of Material Sol
Quantity $\frac{1}{20}$ loads by $\frac{20}{20}$ yd dump trk= $\frac{80}{100}$ total yds
Cell Number material was placed in landfarm ### ###
Comments:
Attendant on duty signature:
Date 1-13-04
"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste" Signature:
135

Location CDU Tyacf 19	
Section 21 Township 215	Range 37E
Trucking Company Swent	
Drivers Signature:	
Type of Material Soil	·
Quantity 4 loads by 20 yd d	
Cell Number material was placed in landfarm	n <i>26</i>
Comments:	
Attendant on duty signature:	
Date /-13-04	
"As a condition of acceptance for disposal, I an exempt waste as defined by the Environm (EPA) The waste are: generated from oil and production operations; Exempt from Resource Act (RCRA) Sub Title C Regulation; and not Signature:	hereby certify that this waste is ental Protection Agency. I gas exploration and ce Conservation and Recovery
Seveatt 144	

Originating Location CDU	Tracting		:
h h			
Section 27	Township	S Range 37	2
Trucking Company	Sweatt		
Drivers Signature: _	bro Rege		
Type of Material			
Quantity 4 lo	oads by <u>20</u> y	d dump trk=	total yds
Cell Number materi	al was placed in land	farm 26	
Comments:	•	•	,
Attendant on duty si	gnature: UL		
Date 1-13-04			
an exempt waste as of (EPA) The waste are production operation	lefined by the Environe: generated from oil s; Exempt from Reso	l, I hereby certify that the numental Protection Age and gas exploration and urce Conservation and not mixed with non-exe	ncy. I Recovery
		•	

Location CDUTRACT 19
Section 29 Township 215 Range 37E
Trucking Company Swenth
Drivers Signature: <u>B. emb. Longal</u>
Type of Material 50; \
Quantity 6 loads by 20 yd dump trk= 120 total yds
Cell Number material was placed in landfarm
Comments:
Attendant on duty signature: W.L.
Date_/-14-04
"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste"
Signature: The

BITHI

Location CDU TRACT 19
Docution DV Mental I
Section 27 Township 215 Range 37E
Trucking Company Sucht
Drivers Signature: Finitedad Buenda
Type of Material Soil
Quantity o loads by yd dump trk= 100 total yds
Cell Number material was placed in landfarm <u>Q6</u>
Comments:
Attendant on duty signature: (A)
Date 1-14-04
"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste" Signature:

BERRIA DUOI

Originating Location CDY TRACT 19
Section 29 Township 215 Range 37E
Trucking Company Swent Drivers Signature:
Type of Material Soil
Quantity 6 loads by 20 yd dump trk= 120 total yds
Cell Number material was placed in landfarm
Comments:
Attendant on duty signature: U.S.
Date 1-14-04
"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste" Signature:
. /

Martines 93

5.1: 79	T 1: 715	Danie 7.7 F
Section 21	Township	Range 51C
Trucking Company	Deveat	1
Drivers Signature:	Aloren B. A.	200
Dirvers Bignature.	Company !	
Type of Material	Ø Y	
Quantity6_loa	ads by <u>20</u> yd dur	np trk= $/20$ tota
Call Number meteria	l was placed in landfarm_	0 6
Cell Nulliber materia	i was piaced in landiarii_	· ·
Comments:		
	•	
	111	
Attendant on duty sig	gnature: VL	
Date /-/4/04/		
"As a condition of ac	cceptance for disposal, I he	ereby certify that this wa
	-	
an exempt waste as d	eimed by the Environmer	
an exempt waste as d (EPA) The waste are	e: generated from oil and g	gas exploration and
an exempt waste as d (EPA) The waste are production operation	e: generated from oil and a s; Exempt from Resource	gas exploration and Conservation and Recov
an exempt waste as d (EPA) The waste are production operation	e: generated from oil and g	gas exploration and Conservation and Recov
an exempt waste as d (EPA) The waste are production operation	e: generated from oil and a s; Exempt from Resource	gas exploration and Conservation and Recov
an exempt waste as d (EPA) The waste are production operation. Act (RCRA) Sub Titl	e: generated from oil and a s; Exempt from Resource	gas exploration and Conservation and Recov

Originating Location CDU TRACT 19
Section 29 Township 215 Range 375
Trucking Company Sweath
Drivers Signature:
Type of Material Soil
Quantity 6 loads by 26 yd dump trk= 120 total yds
Cell Number material was placed in landfarm
Comments:
Attendant on duty signature: U.L.
Date 1-14-04
"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste" Signature: All.
Sevent 137

Originating Location CDU Tract 19
Section 29 Township 215 Range 376
Trucking Company Swentt
Drivers Signature:
Type of Material Ser (
Quantity 6 loads by 20 yd dump trk= 120 total yds
Cell Number material was placed in landfarm @ 6
Comments:
Attendant on duty signature:
Date 1-14-04
"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery
Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste" Signature:

Wildcar

Section 29 T	Township 215 Range 575
Trucking Company Swe	Att
Drivers Signature:	Ray S
•	
Quantity 6 loads b	y <u>20</u> yd dump trk= <u>/20</u> to
Cell Number material was	placed in landfarm & & 26
Cell Number material was	s placed in landfarm <u>& & 26</u>
	s placed in landfarm <u>& & 26</u>
	s placed in landfarm <u>& & 26</u>
Comments:	
Comments: Attendant on duty signatu	re: UL
Attendant on duty signatu Date	re: UL
Attendant on duty signatu Date /	re: UL ance for disposal, I hereby certify that this
Attendant on duty signatu Date /- LU-0 "As a condition of accepta an exempt waste as define	re: UL
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Attendant on duty signature Date /- LU-oy "As a condition of accepta an exempt waste as defined (EPA) The waste are: ger production operations; Ex	re: UL ance for disposal, I hereby certify that this ed by the Environmental Protection Agency nerated from oil and gas exploration and

Location	_CDU				
Section_	29	Township	215	Range 3	18
Trucking	Company_	Sweat	5		
Drivers S	Signature: _				
Type of	Material	5011			
Quantity		oads by 20	yd dur	np trk=	total yds
Cell Nur	nber materi	al was placed	in landfarm_	26	
Commer	ıts:				
Attendar	it on duty si	ignature:(1L		
Date/	-14-04	,			
"As a co an exem (EPA) T producti	ndition of a pt waste as The waste and on operation	defined by the re: generated for series in the received for the re: generated for the received for the recei	disposal, I he Environmer rom oil and g om Resource	ereby certify that ntal Protection A gas exploration a Conservation an nixed with non-e	this waste is gency. nd d Recovery
Signatur	k: JU 144	Un			

Location CDU Tract 19
Section 29 Township 215 Range 37E
Trucking Company Sevent
Drivers Signature: Fernando Sogua
Type of Material So, .
Quantity 5 loads by 20 yd dump trk= 100 total yds
Cell Number material was placed in landfarm
Comments:
Attendant on duty signature: WL
Date 1-15-04
"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste. Signature: Signature:

Originating Location CD4 Tack 19
Section 29 Township 215 Range 37E
Trucking Company Sweat
Drivers Signature:
Type of Material So;
Quantity 5 loads by 20 yd dump trk= 100 total yds
Cell Number material was placed in landfarm 26
Comments:
Attendant on duty signature:
Date
"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste" Signature:

Originating Location CD4 Trace f 17
Section 29 Township 215 Range 37
Trucking Company Sweat
Drivers Signature: Jose leye
Type of Material Sot
Quantity 4 loads by 20 yd dump trk= 80 total yds
Cell Number material was placed in landfarm
Comments:
<u> </u>
Attendant on duty signature: UL
Date 1-15-0 c/
"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste" Signature:
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nature: <u>//</u>	<u> </u>		
ceptance for disperined by the Engrenerated from I Exempt from I	oosal, I herel vironmental oil and gas Resource Co	by certify that the Protection Ago exploration and inservation and	ency. d Recovery
	Township Council ds by 20 was placed in lateral from the generated from the generated from the example fr	Township 215 Could by 20 yd dump to was placed in landfarm reptance for disposal, I herebefined by the Environmental generated from oil and gas; Exempt from Resource Co	Township 215 Range 37 Screek ds by 20 yd dump trk= 80 was placed in landfarm 26 eeptance for disposal, I hereby certify that the fined by the Environmental Protection Age generated from oil and gas exploration and Exempt from Resource Conservation and the C Regulation; and not mixed with non-exempt from the content of the content

Weldeal

Location (Nu True) 17
Section 29 Township 215 Range 378
Trucking Company Sweath
Drivers Signature: Month! Mind
Type of Material Sail
Quantity 4 loads by 20 yd dump trk=80 total yds
Cell Number material was placed in landfarm 26
Comments:
Attendant on duty signature:
Date 1-15-04
"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency. (EPA) The waste are: generated from oil and gas exploration and production operations; Exempt from Resource Conservation and Recovery Act (RCRA) Sub Title C Regulation; and not mixed with non-exempt waste" Signature:

Marting (1)

Appendix C Pit Run Tickets

Company Name & Address _ Awatt
Company Name & Address Awatt
Date 1-30-04 TRUCK NO. 101 YARDS PER LOAD 12 /= 1 LOAD X=2 LOADS
TRUCK NO. 161 YARDS PER LOAD 15 /= 1 LOAD X=2 LOADS
Driver's Signature 1 that Mayo Total Loads 13 Total YDS 156
PIT RUN TICKET
Company Name & Address
\cdot
Date
Driver's Signature Total Loads Total YDS
PIT RUN TICKET
Company Name & Address
Date
Date
Driver's Signature Total Loads Total YDS

Company Name & Address Dweat
Date 1.30-04 Contiche
TRUCK NO. 101 YARDS PER LOAD 12 /= 1 LOAD X=2 LOADS
TROUBLE THE THE TENTE TO THE THE TROUBLE T
Driver's Signature Mtt Vac Total Loads 7 Total YDS 108
PIT RUN TICKET
Company Name & Address
Date

Driver's Signature Total Loads Total YDS
PIT RUN TICKET
Company Name & Address
Date
Date
Driver's Signature Total Loads Total YDS

Company Name & Address SwoAH	
Date 1-30-04 Blow 5AND TRUCK NO. 85 YARDS PER LOAD 12 /= 1 LOAD X=2 LOA A. MANTINEZ	\DS
Driver's Signature 122 Lange Total Loads 13 Total YDS 157	6
PIT RUN TICKET	
Company Name & Address	
Date	
	- ಇದೇ ಇ
Driver's Signature Total Loads Total YDS	_
PIT RUN TICKET Company Name & Address	-
Date	
	-
river's Signature Total Loads Total YDS	↓

Company Name & Address $\neg \omega \in \Pi$
Date 1-30-04 CALICHE TRUCK NO. 48 YARDS PER LOAD 1V /= 1 LOAD X=2 LOAD
A. MArlin
Driver's Signature Regge Total Loads 10 Total YDS 120
PIT RUN TICKET
Company Name & Address
Date
TRUCK NO YARDS PER LOAD /= 1 LOAD X=2 LOADS
Driver's Signature Total Loads Total YDS
PIT RUN TICKET
Company Name & Address
Date
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Driver's Signature Total Loads Total YDS

Appendix D Analytical Results



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR

SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN 703 E. CLINTON, #103 HOBBS, NM 88240

FAX TO: (505) 393-4388

Receiving Date: 12/31/03

Reporting Date: 01/05/04 Project Number: CHE-01-003

Project Name: CDU TRACT 19 (CHEVRON)

Project Location: EUNICE, NM

Sampling Date: 12/31/03

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DA	TE	01/02/04	01/02/04	01/02/04	01/02/04
H8309-1	MONITOR WELL #1	<0.002	<0.002	<0.002	<0.006
H8309-2	MONITOR WELL #2	<0.002	<0.002	<0.002	<0.006
H8309-3	MONITOR WELL #3	<0.002	<0.002	<0.002	<0.006
H8309-4	MONITOR WELL #4	<0.002	<0.002	< 0.002	<0.006
Quality Control		0.098	0.101	0.100	0.311
True Value QC		0.100	0.100	0.100	0.300
% Recovery		98.4	101	99.5	104.0
Relative Perce	nt Difference	5.9	2.9	4.8	2.1

METHOD: EPA SW-846 8260

Chemistli

Date



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR

SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN 703 E. CLINTON #103 HOBBS, NM 88240 FAX TO: (505) 393-4388

Receiving Date: 12/31/03

Reporting Date: 01/06/04 Project Number: CHE 01-003

Project Name: CDU TRACT 19 (CHEVRON)

Project Location: EUNICE, NM

Sampling Date: 12/31/03

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: AH

		Na	Ca	Mg	Κ	Conductivity	T-Alkalinity
LAB NUMBER	SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(u S/cm)	(mgCaCO ₃ /L)
ANALYSIS DAT	E:	01/05/04	01/05/04	01/05/04	01/05/04	01/05/04	01/05/04
H8309-1	MW #1	566	460	135	9.64	6840	120
H8309-2	MW #2	351	121	205	6.56	4336	147
H8309-3	MW #3	110	64	67	2.95	1586	244
H8309-4	MW #4	238	84	146	5.29	3057	147
Quality Control		NR	56	59	5.17	1322	NR
True Value QC		NR	50	50	5.00	1413	NR
% Recovery		NR	112	118	103	93.6	NR
Relative Percer	t Difference	NR	0	0	1	0.7	NR
METHODS:		SM3	3500-Ca-D SO₄	3500-Mg E	8049 HCO ₃	120.1 pH	310.1 TDS
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS DAT		01/05/04	01/05/04	01/05/04	01/05/04	01/05/04	01/06/04
H8309-1	MW #1	1919	121	0	146	7.03	4188
H8309-2	MW #2	1100	212	0	180	7.41	2504
H8309-3	MW #3	260	66	. 0	297	7.57	980
H8309-4	MW #4	700	193	0	180	7.63	1827
Quality Control		1010	53.65	NR	996	7.00	NR
True Value QC		1000	50.00	NR	1000	7.00	NR
% Recovery		101.0	107	NR	99.6	100	NR
Relative Percer	nt Difference	7.0	1.5	NR	0	0	1.4
METHODS:		SM4500-CI-B	375.4	310.1	310.1	150.1	.160.1
Amy	Hill				116	104	
Chemist /\		•		•	Date ^l	v	

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2111 Beechwood, Abilene, TX 79603. 101 East Marland, Hobbs, NM 88240 (915) 673-7001 Fax (915) 873-7020. (505) 393-2326 Fax (505) 393-2476

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analyses. At dalms including those for ned gence and any other cause what be desimed waterd withing and received by Cardinal within 30 days after competent of the apple service. In no event shat Cardinal be table for includental or consequental demages, including without limitation, business is themsplore, best of the consequental demages, including without limitation, best of use, or loss of profits incurred by clear, its sucheldaries, amister or successors acting out of or related to the parformance of services herearder by Cardial, regarders of whether each calmist based sponsary of the above stated ressons or otherwise.

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[†] Cardinal cannot accept verbal changes. Please fax written changes to 915-073-7020.





PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN 703 E. CLINTON, #103 HOBBS, NM 88240 FAX TO: (505) 393-4388

Receiving Date: 01/16/04
Reporting Date: 01/20/04
Project Number: NOT GIVEN

Project Number: NOT GIVEN
Project Name: CDU TRACT 19
Project Location: NOT GIVEN

Sampling Date: 01/16/04

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	TPH (mg/Kg)	Cl* (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DA	TE:	01/19/04	01/19/04	01/19/04	01/19/04	01/19/04	01/19/04
H8373-1	#1	464	18700	<0.005	0.014	0.154	0.306
H8373-2	#2	272	18000	0.018	0.015	0.506	0.737
H8373-3	#3	96	21500	<0.005	<0.005	0.014	0.025
H8373-4	#4	96	16500	<0.005	0.039	0.493	1.29
H8373-5	#5	96	47500	0.006	0.006	0.083	1.12
H8373-6	#6	240	8850	<0.005	<0.005	<0.005	<0.015
Quality Contro	ol .	234	1010	0.093	0.089	0.091	0.276
True Value Q0		240	1000	0.100	0.100	0.100	0.300
% Recovery		97.3	101	92.6	88.8	91.1	92.0
Relative Perce	ent Difference	8.4	3.0	3.1	7.3	3.0	3.8

METHODS:

TRPHC-EPA 600/4-79-020 418.1;CI-Std. Methods 4500-CIB; BTEX-EPA SW-846 8260 *Analyses performed on 1:4 w:v aqueous extracts.

Burgess J. A. Cooke. Ph. D.

Date

PLEASE NOTE: Llability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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ARDINAL LABORATORIES, INC. 2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476 (915) 673-7001 Fax (915) 673-7020

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[†] Cardinal cannot accept verbal changes. Please fax written changes to 915-873-7020.





PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN 703 E. CLINTON, #103 HOBBS, NM 88240 FAX TO: (505) 393-4388

Receiving Date: 01/21/04 Reporting Date: 01/22/04 Project Number: CHE-01-003

Project Name: CDU TRACT 19
Project Location: EUNICE, NM

Sampling Date: 01/20/04

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC Analyzed By: BC/AH/GP

LAB NUMBER	R SAMPLE ID	TPH (mg/Kg)	CI* (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DA	ATE:	01/21/04	01/22/04	01/21/04	01/21/04	01/21/04	01/21/04
H8387-1	SECTION A	6720	144	<0.005	<0.005	<0.005	<0.015
H8387-2	SECTION B	14200	208	<0.005	<0.005	0.026	0.072
H8387-3	SECTION C	6600	224	<0.005	<0.005	0.018	0.032
H8387-4	SECTION D	4180	128	<0.005	<0.005	<0.005	<0.015
Quality Contr	ol	243	1010	0.095	0.096	0.094	0.287
True Value Q	С	240	1000	0.100	0.100	0.100	0.300
% Recovery		101	101	94.6	96.3	93.9	95.8
Relative Perc	ent Difference	7.8	3.0	1.2	2.9	1.9	2.5

METHODS:

TRPHC-EPA 600/4-79-020 418.1;CI-Std. Methods 4500-CIB; BTEX-EPA SW-846 8260 *Analyses performed on 1:4 w:v aqueous extracts. Matrix interference (color) observed.

Burgess J. A. Cooke. Ph. D.

Date

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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2111 Beechwood, Abilene, TX 79603. 101 East Marland, Hobbs, NM 86240 (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

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† Cardinal cannot accept verbal changes. Please lax written changes to 915-673-7020.

Appendix E Site Photos



Trench Looking South



Trench & Excavation Looking North



Excavation Looking Northwest



Excavation Looking North



Excavation Looking West



Excavation Looking West



Excavation Looking Northwest



Excavation Looking West



Excavation Looking South



Excavation Looking Southwest



Excavation Looking South



Excavation Looking East



Excavation Looking East



Excavation Looking Southeast



Excavation Looking Southeast



Excavation Prior to Liner Installation





Excavation Prior to Liner Installation



Excavation Prior to Liner Installation



Installed Liner



Installed Liner



Installed Liner



Sand Cushion on Top of Liner



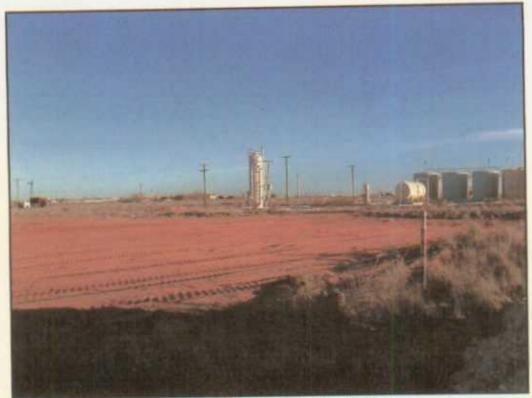
Caliche on Top of Sand



Completed Site Looking Northeast



Completed Site Looking North



Completed Site Looking Southeast



Completed Site Looking East