



AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pGRL1011657364

1RP - 2489

EXXON MOBIL CORPORATION

District I -
1625 N French Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

APR 22 2010

HOBBS

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company ExxonMobil	Contact Toni Collier
Address P.O. Box 4358, Houston, TX 77210	Telephone No. 281-654-1133
Facility Name BDT State S	Facility Type Water Leg on Heater Treater

Surface Owner : Walko Ranch	Mineral Owner	Lease No.
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LOCATION OF RELEASE

Unit Letter F	Section 2	Township 22S	Range 37E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
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Latitude N32.25.26 Longitude W103.08.122

NATURE OF RELEASE

Type of Release Oil and water	Volume of Release 78.4 oil/8.7 produced water	Volume Recovered 75 oil/8.3 produced water
Source of Release Water leg on heater treater	Date and Hour of Occurrence 3/20/10 8:00AM	Date and Hour of Discovery 3/20/10 8:00AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? E.L. Gonzales	
By Whom? Shelby Pennington	Date and Hour 3/20/10 2:30PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

WATER @ 60'

Describe Cause of Problem and Remedial Action Taken.*

2" drain line water leg on heater broke off of heater due to groove in piping developing corrosion.

Describe Area Affected and Cleanup Action Taken.*

A vacuum truck was called out to pick up free fluid. Emergency one call was put in and contaminated soil was excavated. Site will be delineated and remediated according to NM guidelines.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations

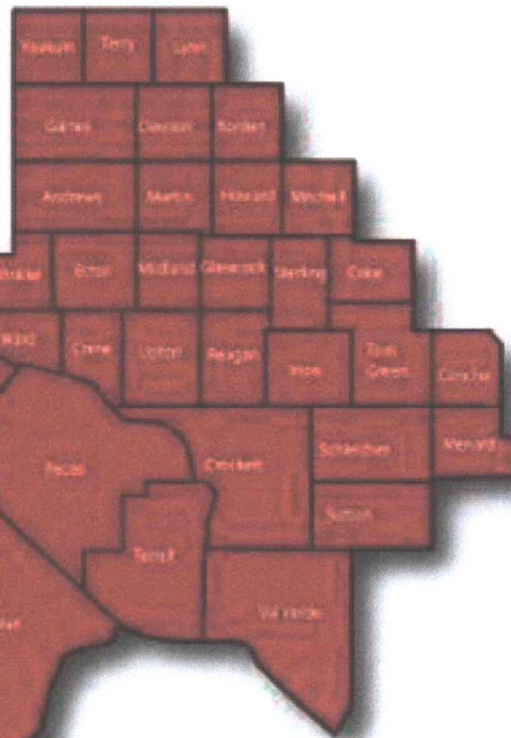
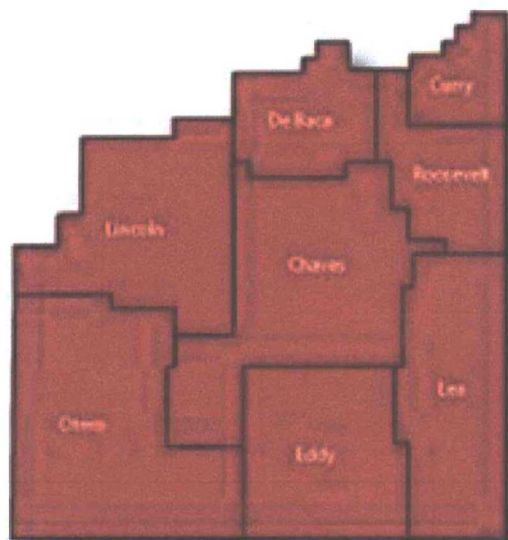
Signature: <i>Ashley G. Volante</i>	OIL CONSERVATION DIVISION	
Printed Name: Ashley Volante	ENVIRONMENTAL Approved by District Supervisor: <i>Jeffrey King</i>	
Title: Acting Compliance Supervisor	Approval Date: 04/26/10	Expiration Date: 06/28/10
E-mail Address: Ashley.G.Volante@exxonmobil.com	Conditions of Approval: DEMONSTRATE TO CLEAN +1. SUBMIT FINAL C-141 BY 06/28/10	Attached <input type="checkbox"/>
Date: 4/21/10 Phone: 281-654-6119	IRP-10-4,2489	

* Attach Additional Sheets If Necessary

JUN 01 2011

RECEIVED

SOUTHEAST NEW MEXICO



WEST TEXAS

Fullerton Operating Area

NM State "S" Tank Battery 5

Remediation Proposal

ExxonMobil

Taking on the world's toughest energy challenges.

APPROVED
06/02/11



ENVIRONMENTAL PLUS, INC.

CONSULTING AND REMEDIAL CONSTRUCTION

17 May 2011

Mr. Geoffrey Leking
Environmental Engineer
New Mexico Oil Conservation Division
1625 North French Drive
Hobbs, New Mexico 88240

RE: Remediation Proposal
ExxonMobil Corporation
New Mexico "S" State Tank Battery #5
UL-F (SE ¼ of the NW ¼) of Section 02, T 22 S, R 37 E
NMOCD Ref. #1RP-10-4-2489; EPI Ref. #190041

Dear Mr. Leking:

On March 20, 2010 at 8:00 a.m. approximately 78.4-bbls of petroleum products and 8.7-barrels of produced water were released when a water leg broke away from an active heater treater. Approximately 75-barrels of petroleum product and 8.3-barrels of produced water were recovered. The combined fluids covered a release area of approximately 5,300 square feet. After vacuuming of petroleum products and produced water, field activities were initiated to mitigate the release area. Oily impacted material within the release area was blended with existing clean soil to stiffen and transported to Sundance Services, Inc., for disposal. Exxon Mobil retained the services of Environmental Plus, Inc., (EPI) to GPS, take photographs and delineate the release area. This letter report documents results of delineation activities and provides a *Remediation Proposal*.

Site Background

The Site is located in UL-F (SE ¼ of the NW ¼) of Section 02, T17S, R37E at an approximate elevation of 3,364 feet above mean sea level (amsl). The property is owned by the State of New Mexico and managed by New Mexico State Land Office (NMSLO). A search for water wells was completed utilizing the New Mexico Office of the State Engineers website and a database maintained by the United States Geological Survey (USGS). No wells (domestic, agriculture or public) or bodies of surface water exist within a 1,000 feet radius of the Site (reference *Figure 2*). Groundwater data indicates the average water depth is approximately 60-feet below ground surface (bgs). Based on available information, it was determined the distance between impacted soil and groundwater is less than 45-feet. Utilizing this information, the New Mexico Oil Conservation Division (NMOCD) Remedial Goals for this Site were determined as follows:

Parameter	Remedial Goal
Benzene	10 mg/Kg
BTEX	50 mg/Kg
TPH	100 mg/Kg
Chlorides	250 mg/Kg

ENVIRONMENTAL PLUS, INC.



Field Work

On May 21, 2010 EPI mobilized at the Site to delineate the release area via sample trenches (ST). ST-1 was excavated to a depth of 6-feet and ST-2 to a depth of 11-feet bgs. Soil samples were collected at 1-foot intervals to total depth of each ST. On July 29, 2010 EPI mobilized to the site and excavated ST-3 a total depth of 10-feet bgs. Soil samples were collected at selected intervals (2-, 3.5-, 5-, 7- and 10-feet bgs) for field analyses and laboratory analytical tests.

In response to NMOCD request, EPI and Straub Corporation mobilized to the Site on January 25, 2011 to determine exact depth of impacted material. A single soil boring was advanced in the center of the release area a total depth of twenty-five (25) feet below ground surface (bgs). Impacted material extended from ground surface to a depth of fifteen (15) feet bgs. Soil samples for field analyses and laboratory analytical tests were collected at five (5) foot intervals from ground surface to TD of the soil boring (Ref. *Table 2*). Upon completion of soil boring activities, the hole was plugged with 3/8" pelletized bentonite and cement (Ref. Well Records & Log).

Due to concerns of number and exact location of buried pipelines, EPI and HydroTech mobilized to the site on March 7, 2011. A trench was hydro excavated from the east side of release area to the lease road on the west side. Three (3) buried pipelines were discovered with two (2) 3-inch diameter steel pipe lines running parallel north-south down center line of release area fourteen (14) feet east of the lease road. A third (3rd) 8" diameter steel pipeline is located approximately eight (8) feet east of the lease road skewing towards the east (Ref *Figure 5*). Bury depth of the 3" diameter pipelines is ± 2 -feet while the 8" diameter steel pipeline is ± 4 -feet. Field observations indicate the steel pipelines will nearly intersect somewhere in mid or south end of the release area. No soil samples were collected during this activity.

For activities described above where soil samples were collected, a portion of each soil sample was field analyzed for organic vapor and chloride concentrations. Soil samples collected for field testing of organic vapors were placed in self-sealing polyethylene bags and allowed to equilibrate to $\sim 70^{\circ}$ F. The samples were then tested for organic vapor concentrations utilizing a MiniRae™ Photoionization detector (PID) equipped with a 10.6 electron-volt (eV) lamp calibrated for detection of benzene vapors. Chloride concentrations were analyzed in the field utilizing a LaMotte Chloride Kit (Titration Method).

Soil samples designated for laboratory analyses were immediately inserted into laboratory provided containers, placed into coolers, iced down and transported to Cardinal Laboratory, Hobbs, New Mexico, for quantification of TPH [Gasoline Range Organics (C6-C12) and Diesel Range Organics (>C12-C28)] and chloride concentrations under Chain-of-Custody protocol.

Analytical Data

In noting *Table 2, Summary of Excavation and Soil Borings Soil Sample Field Analyses and Laboratory Analytical Results*, the release area is void of TPH concentrations above NMOCD Remedial Threshold Goals (NMOCD Goals) of 100 mg/Kg. Chloride concentrations in excess of NMOCD Goals of 250 mg/Kg terminate at fifteen (15) feet bgs.



Site Remedial Proposal

In viewing the physical location of the release area, it would require a very large excavation for removal of all chloride impacted soil to approximately fifteen (15) vertical feet. The northern end is blocked by an active heater treater while the west side is confined by the lease road. Excessive excavation in the northerly direction would endanger the heater treater base. Removal of impacted material near the lease road would require a detour and closure of the main north-south route. Adding to the complexity of excavating the release area are three (3) buried steel pipelines. The 3" diameter steel pipelines would require careful excavation procedures and installation of metal braces for support. The 8" and 3" diameter steel pipelines nearly intersect in the mid- to south section of the release area. There is sufficient room on east side of the 3" and west side of the 8" pipelines for limited excavation. However, excavating between pipelines on convergent and divergent sides may not allow sufficient room to do it mechanically. In lieu of this, EPI proposes to excavate the release area a maximum of six (6) feet below ground surface (bgs) which is below root zone (~3-feet bgs) protecting vegetation. While not eliminating all, it will remove bulk of chloride impacted material. Excavation of the north end will commence five (5) feet south of the heater treater and continue in a southerly direction until soils comply with NMOCD Goals. Excavation in a westerly direction will continue until it abuts east edge of existing lease road. Impacted material will be excavated from around the 8" diameter steel pipeline the entire length of the release area. Sidewalls on the east side of the release area will be excavated until soil displaying NMOCD Goals for chloride concentrations are achieved.

Field analyses of chloride concentrations will dictate extent of excavation required in the easterly and southerly direction. Representative soil samples will be collected from sidewalls, prepared and transported to an independent lab for analyses of chloride concentrations as described in *Field Work*. Upon receipt of laboratory analytical data indicating east and south sidewalls are free of chloride impacted material, backfill operations will commence.

A forty (40) mil thick polyethylene liner will be placed in the bottom of the excavation extending up the north (heater treater) and west (lease road) sidewalls to within six (6) inches of finish grade. Polyethylene liner will extend three (3) feet up the east and south sidewalls. Bottom of the polyethylene liner will lay on a one (1) foot thick layer of clean top soil or cushion sand. Depth of excavation will be a maximum of one and one-half (1.5) feet below bottom of the 8" diameter pipeline. This will allow both working area to insert the polyethylene liner under the 8" diameter steel pipeline and tamping backfill soil under the barrel for lateral support. Remainder of the excavation will be backfilled with selected top soil to finish grade. Top soil will be free of deleterious material, rocks or large clumps. Caliche will be placed around the heater treater to provide a working service area. Special care will be taken to ensure the two (2) 3" diameter steel pipelines are encased in clean top soil or sand extending a minimum of one (1) foot around outer sidewalls, top and bottom. Finished gradient will allow natural flow of water away from the heater treater and remediated release area onto the lease road. Soil in disturbed areas will be disced and deep drill seeded with either BLM Mix #2 or a blend preferred by the NMSLO.

EPI and ExxonMobil personnel are cognizant this represents a "risk based" closure procedure, but feel it is justified under conditions as described above and an active tank battery supported by the



heater treater. When New Mexico "S" State Tank Battery #5 has been abandoned per New Mexico Administrative Title 19, Chapter 15 requirements, remaining impacted material will be removed and area returned to natural state.

Should you have any technical questions, concerns or need additional information, please contact me at (575) 394-3481 (office), (575) 441-7802 (cellular) or via email at dduncanepi@gmail.com.

Official communications should be directed to Mr. Eric Imken at (432) 596-4210 (office), (432) 266-0373 (cellular) or via email at eric.imken@exxonmobil.com with correspondence addressed to:

Mr. Eric Imken
ExxonMobil Fullerton/Seminole & New Mexico
Operator
6810 NW 8000
Andrews, Texas 79714

Sincerely,

ENVIRONMENTAL PLUS, INC.,

David P. Duncan
Civil Engineer
EPI Project Manager

Cc: Shelby Pennington, Operations Foreman – ExxonMobil Corp.
Eric Imken, Operator – ExxonMobil Corp.
Cody Miller, General Manager – EPI
Roger Boone, Operations Manager - EPI
New Mexico State Land Office

Encl: Figure 1 – Area Map
Figure 2 – Site Location Map
Figure 3 – Site Map
Figure 4 – Sample Trench Excavation Map
Figure 5 – Release Area and Underground Pipelines
Table 1 – Well Data
Table 2 – Summary Excavation and Soil Borings Soil Sample Field Analyses and
Laboratory Analytical Results



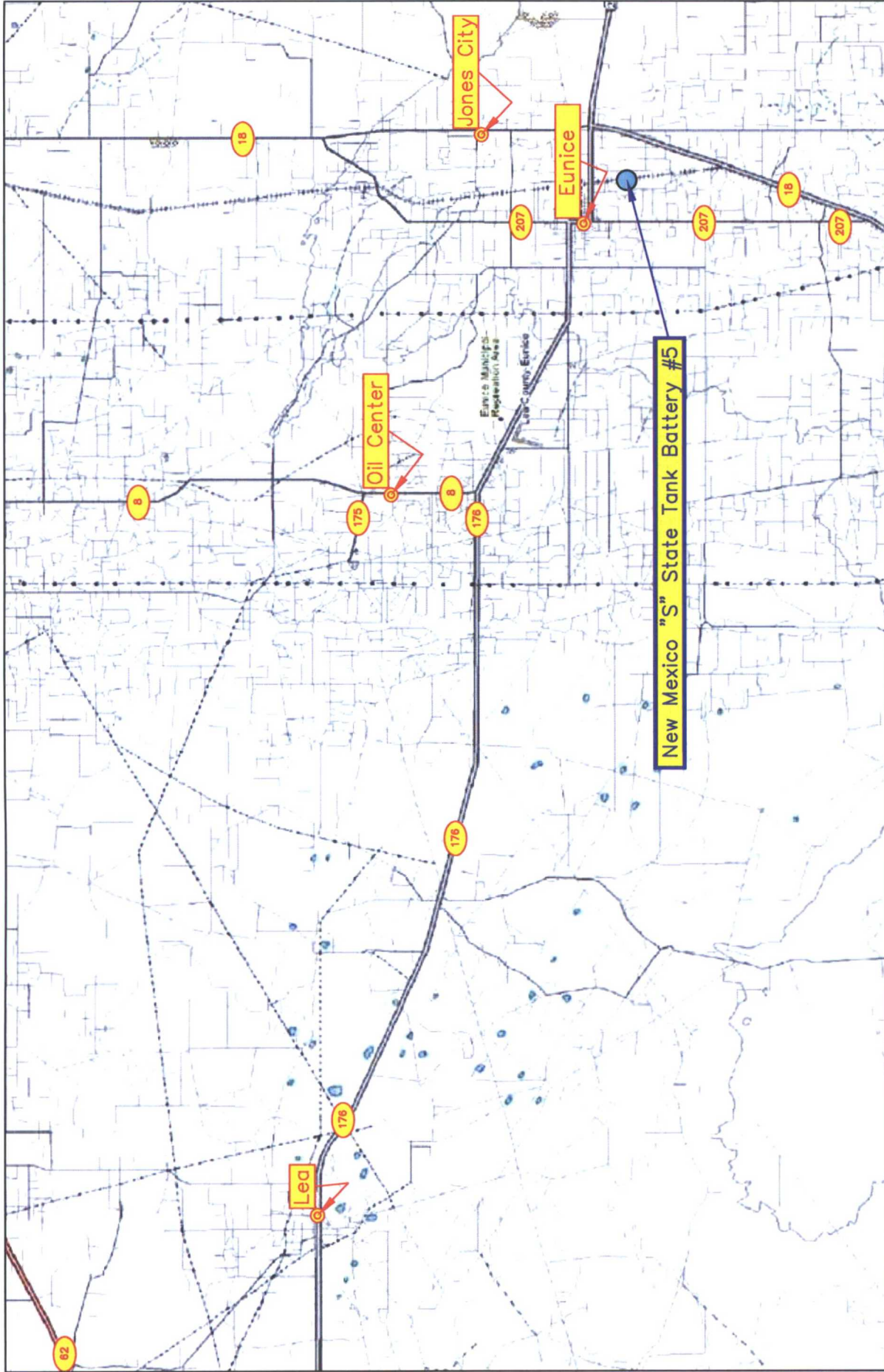
Attachment I – Site Photographs

Attachment II – Laboratory Analytical Results and Chain-of-Custody Forms

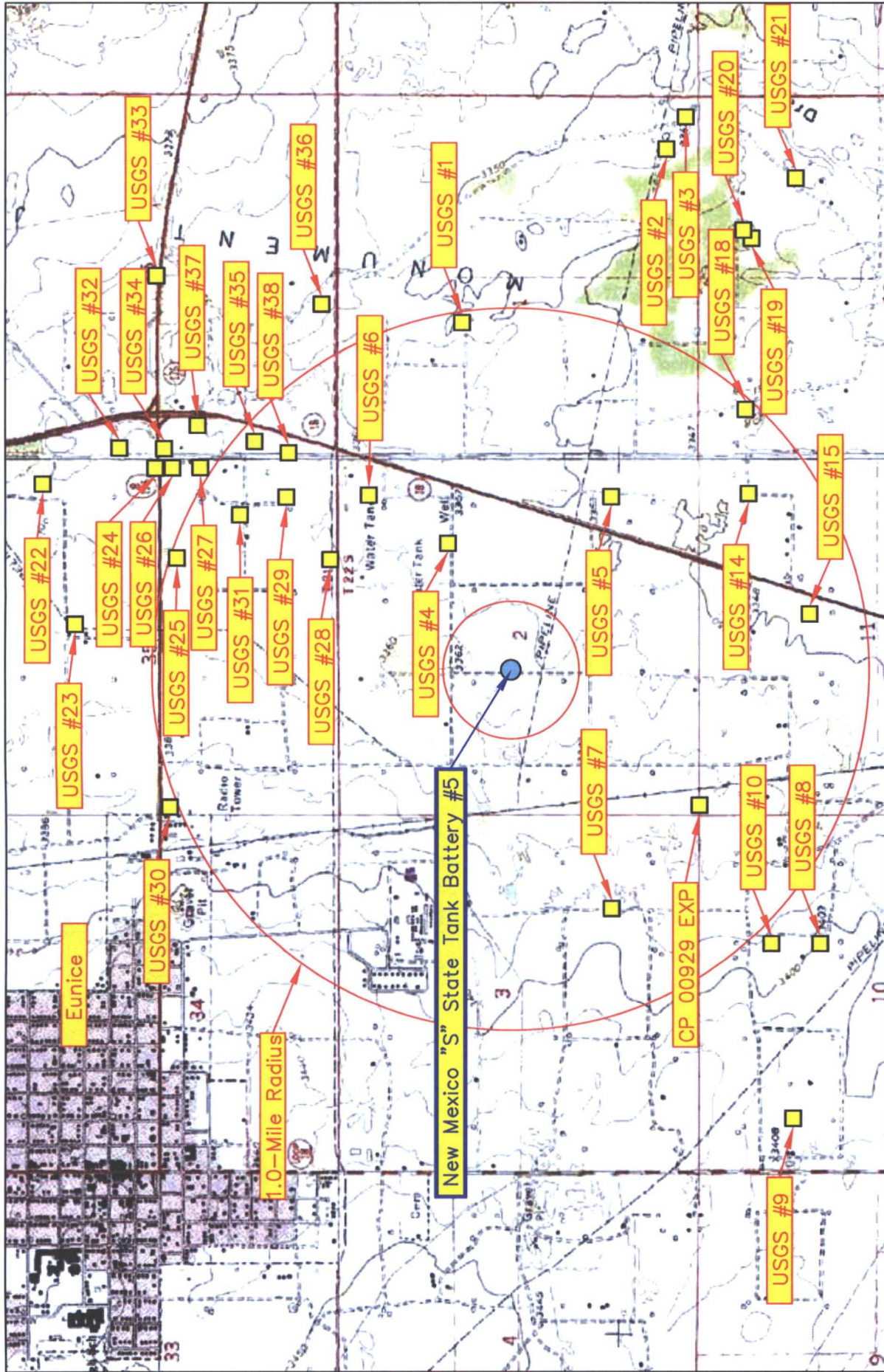
Attachment III – Sample Trench Logs (FM & OL Forms)

Attachment IV – Well Record & Log Office of the State Engineer

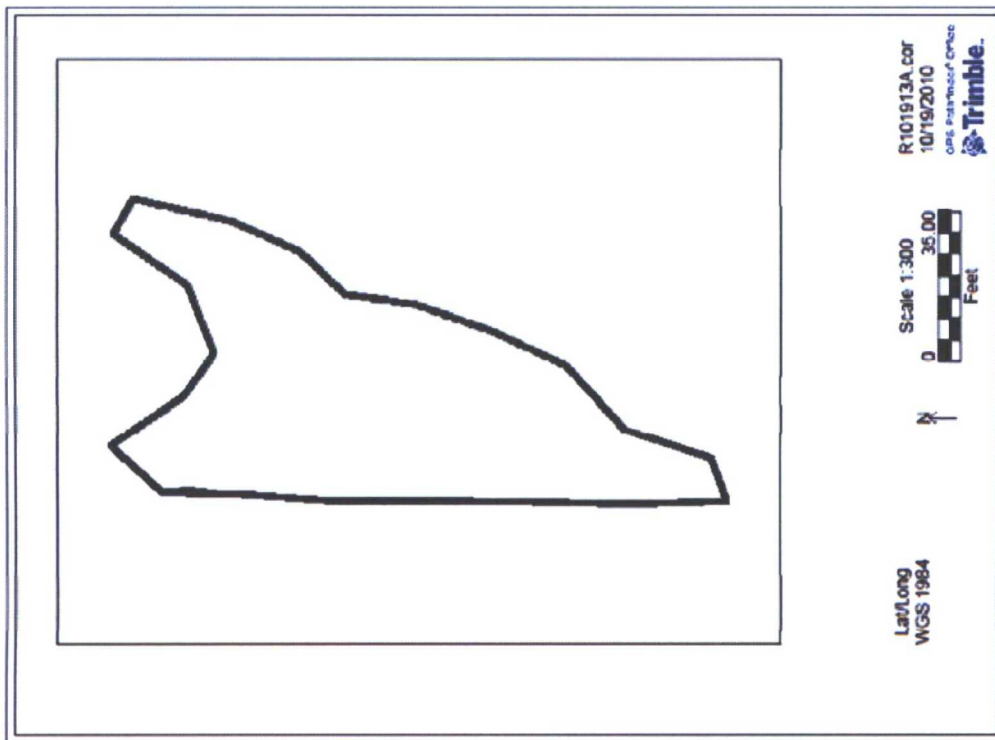
Attachment V – Copy of Initial C-141



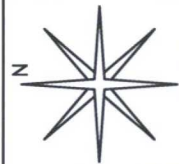
<p>Figure 1 Area Map ExxonMobil New Mexico "S" State Tank Battery #5</p>	<p>Lea County, New Mexico SE 1/4 of the NW 1/4, Sec. 2, T22S, R37E N 32° 25' 15.99" W 103° 08' 07.42" Elevation: 3,364 feet amsl</p>	<p>DWG By: Daniel Dominguez May 2007</p>	<p>REVISED:</p>	<p>SHEET 1 of 1</p>
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<p>Figure 2</p> <p>Site Location Map</p> <p>ExxonMobil</p> <p>New Mexico "S" State Tank Battery #5</p>	<p>Lea County, New Mexico</p> <p>SE 1/4 of the NW 1/4, Sec. 2, T22S, R37E</p> <p>N 32° 25' 15.99" W 103° 08' 07.42"</p> <p>Elevation: 3,364 feet amsl</p>	<p>DWG By: Daniel Dominguez</p> <p>May 2007</p> <p>REvised:</p> <p>0 2,000 4,000</p> <p>SHEET 1 of 1</p> <p>Feet</p> <p>N</p>
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Legend



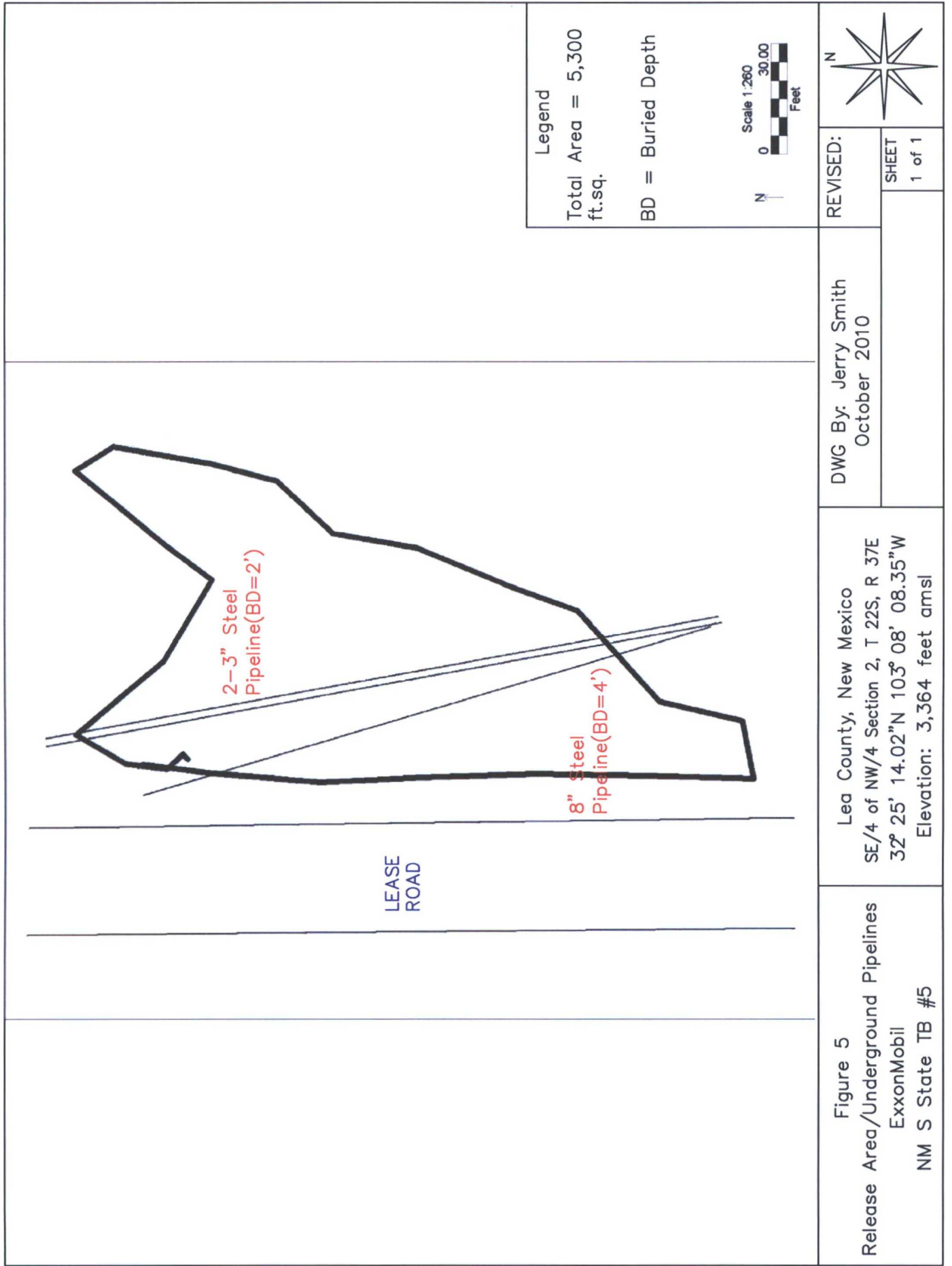
REVISED:

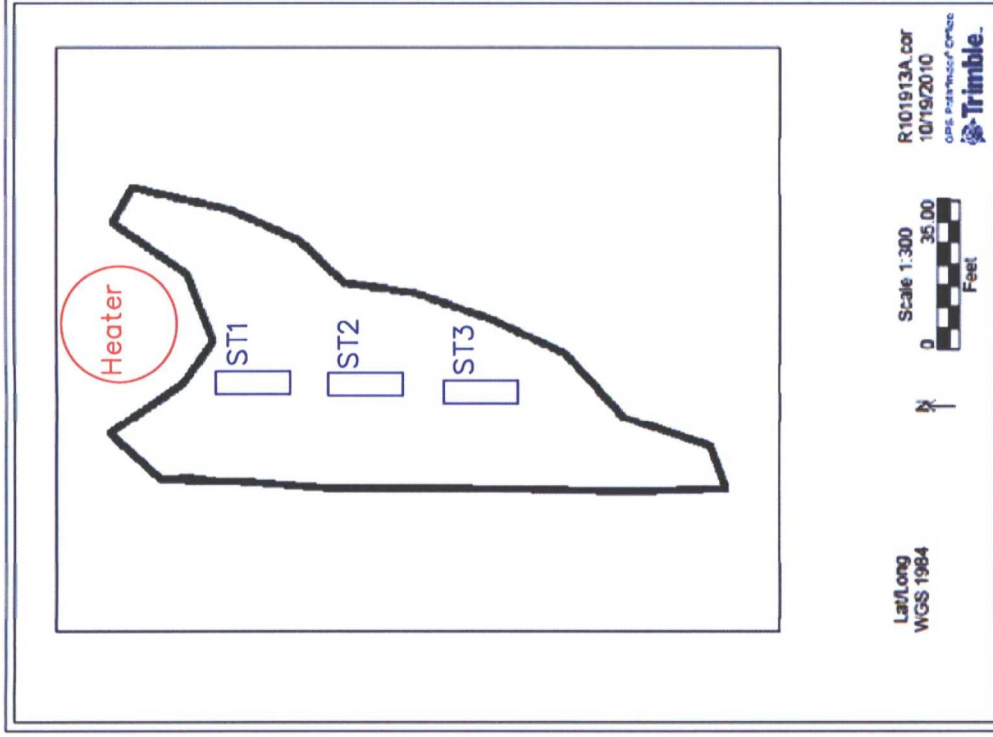
SHEET
1 of 1

DWG By: Jerry Smith
October 2010

Lea County, New Mexico
SE/4 of NW/4 Section 2, T 22S, R 37E
32° 25' 14.02"N 103° 08' 08.35"W
Elevation: 3,364 feet amsl

Figure 3
Site Map
ExxonMobil
NM S State TB #5





Legend
ST = Sample
Trench

REVISED:

SHEET
1 of 1

DWG By: Jerry Smith
October 2010

Lea County, New Mexico
SE/4 of NW/4 Section 2, T 22S, R 37E
32° 25' 14.02"N 103° 08' 08.35"W
Elevation: 3,364 feet amsl

Figure 4
Sample Trench Site Map
ExxonMobil
NM S State TB #5



TABLE 1

WELL INFORMATION REPORT*
ExxonMobil - New Mexico "S" State Tank Battery #5 (Ref #190031)

Well Number	Diversion ^A	Owner	Use	Twsp	Rng	Sec q q q	Latitude	Longitude	Date Measured	Surface Elevation ^B	Depth to Water (ft bgs)
CP 00929 EXPLORE	0	STATE OF NM STATE ENGINEER	EXP	22S	37E	02 3 3 3	N32° 24' 48.58"	W103° 08' 30.64"		3,379	
USGS #1				22S	37E	1 1 4 1			14-Mar-68		54.46
USGS #2				22S	37E	1 4 4 3			17-Mar-81		53.81
USGS #3				22S	37E	1 4 4 4			28-Feb-96		54.15
USGS #4				22S	37E	2 2 4 2			17-Mar-81		58.79
USGS #5				22S	37E	2 4 4 2			09-Oct-53		53.3
USGS #6				22S	37E	2 2 2 2			26-Feb-86		55.12
USGS #7				22S	37E	3 4 3 2			27-Jan-76		32.58
USGS #8				22S	37E	10 2 3 2			27-Jan-76		54.44
USGS #9				22S	37E	10 1 3 2			27-Jan-76		65.59
USGS #10				22S	37E	10 2 1 4			27-Jan-76		41.88
USGS #14				22S	37E	11 2 2 4			26-Apr-91		54.87
USGS #15				22S	37E	11 2 3 1			30-Jun-76		20.51
USGS #18				22S	37E	12 1 1 4			26-Oct-65		57.4
USGS #19				22S	37E	12 2 1 3			14-Oct-53		53.26
USGS #20				22S	37E	12 2 1 2			14-Oct-53		53.82
USGS #21				22S	37E	12 2 4 1			26-Oct-65		54.63
USGS #22				21S	37E	35 2 2 4			22-Jan-76		55.77
USGS #23				21S	37E	35 2 3 1			01-Feb-96		43.68
USGS #24				21S	37E	35 2 4 4			23-Jan-76		58.29
USGS #25				21S	37E	35 4 1 2			23-Jan-76		57.05
USGS #26				21S	37E	35 4 2 2			23-Jan-76		58.97
USGS #27				21S	37E	35 4 2 2			23-Jan-76		58.76
USGS #28				21S	37E	35 4 3 4			23-Jan-76		62.44
USGS #29				21S	37E	35 4 4 2			23-Jan-76		59.08
USGS #30				21S	37E	35 3 2 1			25-Apr-91		54.51
USGS #31				21S	37E	35 4 2 3			23-Jan-76		59.77
USGS #32				21S	37E	36 1 3 3			23-Jan-76		58.88
USGS #33				21S	37E	36 2 3 3			27-Jan-76		50.07
USGS #34				21S	37E	36 3 1 1			02-Mar-81		60.08
USGS #35				21S	37E	36 3 3 1			02-Mar-81		58.07
USGS #36				21S	37E	36 3 4 4			09-Dec-70		55.48
USGS #37				21S	37E	36 3 1 1			09-Dec-70		63.51
USGS #38				21S	37E	36 3 3 1			27-Jan-76		62.21
USGS #11				22S	37E	10 3 2 1			27-Jan-76		69.54
USGS #12				22S	37E	10 3 2 1			17-Mar-81		66.05
USGS #13				22S	37E	10 3 4 1			15-Feb-96		91.64
USGS #16				22S	37E	11 3 2 2			18-Mar-96		38.97
USGS #17				22S	37E	11 4 4 4			25-Apr-91		57.98

* = Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nm.us:7001/iWATERS/wr_RegisServlet) and USGS Database.

^A = in acre feet per annum

^B = Interpolated from USGS Topographical Map

EXP = Exploration

(quarters are 1=NW, 2=NE, 3=SW, 4=SE)

(quarters are biggest to smallest - X Y are in Feet - UTM are in Meters)

Shaded area indicates wells not shown on Figure 2

Summary Excavation and Soil Borings Soil Sample Field Analyses and Laboratory Analytical Results

UL-F (SE1/4 of the NW1/4) of Section 02, T22S, R37E; Lea County, New Mexico

[illegible]

TABLE 2

Summary Excavation and Soil Borings Soil Sample Field Analyses and Laboratory Analytical Results

Exxon Mobil - New Mexico "S" State Tank Battery #5

NMOCD Ref. ; EPI Ref. #190041

UL-F (SE1/4 of the NW1/4) of Section 02, T22S, R37E; Lea County, New Mexico

Sample ID	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	Carbon Ranges C6-C10 (mg/Kg)	Carbon Ranges >C10-C28 (mg/Kg)	Carbon Ranges >C28-C-35 (mg/Kg)	Total TPH C6-C35 (mg/Kg)	Chloride (mg/Kg)
ST-3	7	In-Situ	29-Jul-10	0.0	360	--	--	--	--	--	--	--	--	--	96
ST-3	10	In-Situ	29-Jul-10	0.0	800	--	--	--	--	--	--	--	--	--	--
SB-1	5	In-Situ	25-Jan-11	--	1,600	--	--	--	--	--	--	--	--	--	1,120
SB-1	10	In-Situ	25-Jan-11	--	460	--	--	--	--	--	--	--	--	--	592
SB-1	15	In-Situ	25-Jan-11	--	400	--	--	--	--	--	--	--	--	--	384
SB-1	20	In-Situ	25-Jan-11	--	60	--	--	--	--	--	--	--	--	--	32.0
SB-1	25	In-Situ	25-Jan-11	--	60	--	--	--	--	--	--	--	--	--	96.0
		NMOCD Remedial Thresholds		100		10				50				100	250

Bold values exceed NMOCD Remedial Threshold Goals

-- = Not Analyzed

Soil Sample Nomenclature: BG = Background Reference; ST = Sample Trench; BH = Bottom Hole; SW = Sidewall (E = East, W = West, N = North and S = South); SP = Sample Point; SB = Soil Boring



Photograph No. 1 – Lease Sign



Photograph No. 2 – Looking northerly at release area and cleanup effort



Photograph No. 3 – Looking a broken water leg



Photograph No. 4 – Looking southerly at release area and cleanup efforts



ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

May 26, 2010

David P. Duncan
Environmental Plus, Inc.
P.O. Box 1558
Eunice, NM 88231

Re: NM State S State TB (190041)

Enclosed are the results of analyses for sample number H19949, received by the laboratory on 05/21/10 at 3:25 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 5 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.



CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: DAVID P. DUNCAN
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (575) 394-2601

Receiving Date: 05/21/10
Reporting Date: 05/26/10
Project Owner: EXXON MOBIL (190041)
Project Name: NM STATE S STATE TB
Project Location: UL-F, SEC. 02, T22S, R37E

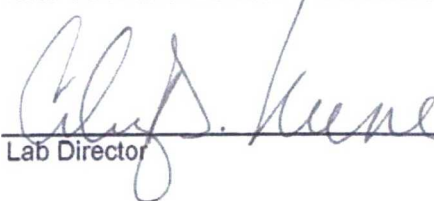
Sampling Date: 05/21/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 4.5°C
Sample Received By: JH
Analyzed By: AB/ZL/HM

LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	CI* (mg/kg)
ANALYSIS DATE:		05/25/10	05/25/10	05/24/10	05/24/10	05/24/10	05/24/10	05/24/10
H19949-1	ST-1 (1')	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	736
H19949-2	ST-1 (2')	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	608
H19949-3	ST-1 (3')	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	512
H19949-4	ST-1 (4')	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	400
H19949-5	ST-1 (5')	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	624
H19949-6	ST-1 (6')	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	384
H19949-7	BG-1 (1')	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	< 16
H19949-8	ST-2 (1')	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	1,440
H19949-9	ST-2 (2')	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	1,380
Quality Control		478	471	0.018	0.018	0.018	0.054	500
True Value QC		500	500	0.020	0.020	0.020	0.060	500
% Recovery		95.6	94.2	90.0	90.0	90.0	90.0	100
Relative Percent Difference		2.4	0.5	6.8	6.6	7.5	5.3	< 0.1

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B; CI-: Std. Methods 4500-CI-B

*Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES. Not accredited for GRO/DRO and Chloride.


Lab Director

05/26/10
Date

H19949 TBCL EPI

PLEASE NOTE: **Liability 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. Result relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: DAVID P. DUNCAN
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (575) 394-2601

Receiving Date: 05/21/10
Reporting Date: 05/26/10
Project Owner: EXXON MOBIL (190041)
Project Name: NM STATE S STATE TB
Project Location: UL-F, SEC. 02, T22S, R37E

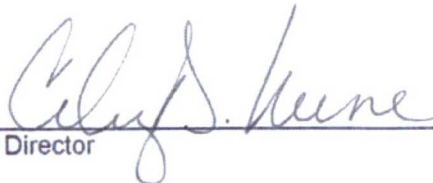
Sampling Date: 05/21/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 4.5°C
Sample Received By: JH
Analyzed By: AB/ZL/HM

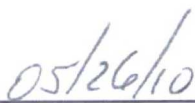
LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (C ₁₀ -C ₂₈) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	CI* (mg/kg)
ANALYSIS DATE:		05/25/10	05/25/10	05/25/10	05/25/10	05/25/10	05/25/10	05/24/10
H19949-10	ST-2 (3')	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	1,140
H19949-11	ST-2 (4')	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	1,220
H19949-12	ST-2 (5')	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	1,410
H19949-13	ST-2 (6')	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	1,440
H19949-14	ST-2 (7')	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	1,420
H19949-15	ST-2 (8')	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	864
H19949-16	ST-2 (9')	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	1,800
H19949-17	ST-2 (10')	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	1,570
H19949-18	ST-2 (11')	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	736
Quality Control		478	471	0.017	0.019	0.017	0.051	500
True Value QC		500	500	0.020	0.020	0.020	0.060	500
% Recovery		95.6	94.2	85.0	95.0	85.0	85.0	100
Relative Percent Difference		2.4	0.5	<1.0	4.6	3.7	2.8	< 0.1

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B; CI-: Std. Methods 4500-CI-B

*Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES. Not accredited for GRO/DRO and Chloride.


Lab Director


Date

H19949 TBCL EPI

PLEASE NOTE: **Liability 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. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231
(575) 394-3481 FAX: (575) 394-2601
P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

LAB: Carlini

Company Name Environmental Plus, Inc.						Bill To		ANALYSIS REQUEST															
EPI Project Manager David P. Duncan																							
Mailing Address P.O. BOX 1558																							
City, State, Zip Eunice New Mexico 88231																							
EPI Phone#/Fax# 575-394-3481 / 575-394-2601																							
Client Company ExxonMobil																							
Facility Name NM State S State TB																							
Location UL-F, Sec. 02, T2S, R37E																							
Project Reference 190041																							
EPI Sampler Name Kirt Tyree																							
LAB I.D.	SAMPLE I.D.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄)	PH	TCLP	OTHER >>>	PAH		
			GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE											
119949-1	ST-1 (1')	G 1			X										X	X	X						
2	ST-1 (2')	G 1			X										X	X	X						
3	ST-1 (3')	G 1			X										X	X	X						
4	ST-1 (4')	G 1			X										X	X	X						
5	ST-1 (5')	G 1			X										X	X	X						
6	ST-1 (6')	G 1			X										X	X	X						
7	BG-1 (1')	G 1			X										X	X	X						
8	ST-2 (1')	G 1			X										X	X	X						
9	ST-2 (2')	G 1			X										X	X	X						
10	ST-2 (3')	G 1			X										X	X	X						

Sampler Relinquished by: [Signature] Received By: _____

Relinquished by: _____ Received By: (lab staff) _____

Delivered by: 4.50c Sample Cddt & Intact Yes No Checked By: [Signature]

E-mail results to: dduncan@envplus.net

Environmental Plus, Inc.


2100 Avenue O, Eunice, NM 88231

(575) 394-3481 FAX: (575) 394-2601

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

LAB: Cardinal

Company Name		Environmental Plus, Inc.		Bill To		ANALYSIS REQUEST															
EPI Project Manager		David P. Duncan		 Attn: David P. Duncan P.O. Box 1558 Eunice, NM 88231		TPH 8015M		CHLORIDES (Cl)		SULFATES (SO ₄)		pH		TCLP		OTHER >>		PAH			
Mailing Address		P.O. BOX 1558				MATRIX		PRESERV.		SAMPLING		DATE		TIME							
City, State, Zip		Eunice New Mexico 88231				GROUND WATER		WASTEWATER		SOIL		CRUDE OIL		SLUDGE		OTHER:		ACID/BASE		ICE/COOL	
EPI Phone#/Fax#		575-394-3481 / 575-394-2601				# CONTAINERS															
Client Company		ExxonMobil				(G)RAB OR (C)OMP.															
Facility Name		NM State S State TB																			
Location		UL-F, Sec. 02, T22S, R37E																			
Project Reference		190041																			
EPI Sampler Name		Kirt Tyree																			
LAB I.D.		SAMPLE I.D.																			
H19949 - 11 ST-2(4')				G 1																	
- 12 ST-2 (5')				G 1																	
- 13 ST-2 (6')				G 1																	
- 14 ST-2 (7')				G 1																	
- 15 ST-2 (8')				G 1																	
- 16 ST-2 (9')				G 1																	
- 17 ST-2 (10')				G 1																	
- 18 ST-2 (11')				G 1																	
19																					
20																					

Sampler Relinquished:		5/21/2010		Received By:	
Relinquished by:		Time		5/21/2010	
Delivered by:		4.50		Sample Cool & Intact	
		Yes		No	
		Revised By: (lab staff)		Checked By:	
		Time 3:25		Jodi Jensen	
				JH	

E-mail results to: dduncan@envplus.net

#26



ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

August 4, 2010

David P. Duncan
Environmental Plus, Inc.
P.O. Box 1558
Eunice, NM 88231

Re: NM State S State TB (190041)

Enclosed are the results of analyses for sample number H20457, received by the laboratory on 07/30/10 at 2:45 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.



ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: DAVID P. DUNCAN
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (575) 394-2601

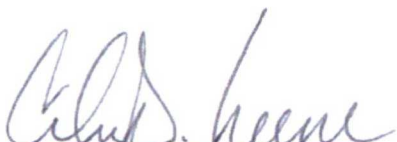
Receiving Date: 07/30/10
Reporting Date: 07/30/10
Project Owner: EXXONMOBIL (190041)
Project Name: NM STATE S STATE TB
Project Location: UL-F, SEC.02, T22S, R37E


Analysis Date: 07/30/10
Sampling Date: 07/29/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 0°C
Sample Received By: AB
Analyzed By: HM

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/kg)
H20457-1	ST-3 (5')	48
H20457-2	ST-3 (7')	96
Quality Control		510
True Value QC		500
% Recovery		102
Relative Percent Difference		< 0.1

METHOD: Standard Methods 4500-Cl⁻B

Note: Analyses performed on 1:4 w:v aqueous extracts.


Cheryl Heene
Chemist


Date

H20457 EPI


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Chain of Custody Form

LAB: Cardinal

Company Name Environmental Plus, Inc.										Bill To		ANALYSIS REQUEST																	
EPI Project Manager David P. Duncan																													
Mailing Address P.O. BOX 1558																													
City, State, Zip Eunice New Mexico 88231																													
EPI Phone#/Fax# 575-394-3481 / 575-394-2601																													
Client Company ExxonMobil																													
Facility Name NM State S State TB																													
Location UL-F, Sec. 02, T22S, R37E																													
Project Reference 190041																													
EPI Sampler Name Danny Deaton																													
LAB I.D.										SAMPLE I.D.																			
H20457-1										ST-3 (5')																			
-12										ST-3 (7')																			
13																													
14																													
15																													
16																													
17																													
18																													
19																													
20																													

Attn: David P. Duncan
P.O. Box 1558
Eunice, NM 88231



Company Name
Environmental Plus, Inc.

EPI Project Manager
David P. Duncan

Mailing Address
P.O. BOX 1558

City, State, Zip
Eunice New Mexico 88231

EPI Phone#/Fax#
575-394-3481 / 575-394-2601

Client Company
ExxonMobil

Facility Name
NM State S State TB

Location
UL-F, Sec. 02, T22S, R37E

Project Reference
190041

EPI Sampler Name
Danny Deaton

Matrix

GROUND WATER

WASTEWATER

SOIL

CRUDE OIL

SLUDGE

OTHER:

ACID/BASE

ICE/COOL

OTHER

DATE

TIME

TPH 8015M

BTEX 8021B

CHLORIDES (Cl)

SULFATES (SO₄)

PH

TCLP

OTHER >>

PAH

Received By: *[Signature]*

Received By: (lab staff)

Time 2:45pm

7/30/2010

7/30/2010

Time 2:45pm

Sample Good & Intact

Yes No

Checked By: *[Signature]*

Sample Relinquished: *[Signature]*

Relinquished by: *[Signature]*

Delivered by: *[Signature]*

000 #76

E-mail results to: dduncan@envplus.net

January 27, 2011

David P. Duncan

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: NM STATE S STATE TB

Enclosed are the results of analyses for samples received by the laboratory on 01/26/11 8:50.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Environmental Plus, Inc.
David P. Duncan
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 01/26/2011
Reported: 01/27/2011
Project Name: NM STATE S STATE TB
Project Number: 190041
Project Location: UL-F, SEC. 02, T22S, R37E

Sampling Date: 01/25/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB - 1 (5') (H100177-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: LR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	01/27/2011	ND	432	108	400	0.00	

Sample ID: SB - 1 (10') (H100177-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: LR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	01/26/2011	ND	432	108	400	0.00	

Sample ID: SB - 1 (15') (H100177-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: LR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	01/26/2011	ND	432	108	400	0.00	

Sample ID: SB - 1 (20') (H100177-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: LR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/26/2011	ND	432	108	400	0.00	

Sample ID: SB - 1 (25') (H100177-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: LR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/26/2011	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Environmental Plus, Inc.

2100 Avenue "O", P.O. Box 1558, Eunice, NM 88231
(575) 394-3481 FAX: (575) 394-2601

Chain of Custody Form

LAB:

Company Name Environmental Plus, Inc.										Bill To		ANALYSIS REQUEST											
EPI Project Manager David P. Duncan																							
Mailing Address P.O. BOX 1558																							
City, State, Zip Eunice New Mexico 88231																							
EPI Phone# / Fax# 575-394-3481 / 575-394-2601																							
Client Company ExxonMobil																							
Facility Name NM State S State TB																							
Location UL-F, Sec. 02, T22S, R37E																							
Project Reference 190041																							
EPI Sampler Name Kirby Bingham																							
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	MATRIX	PRESERV.	SAMPLING		ANALYSIS REQUEST									
											ACID/BASE	ICE/COOL	OTHER	DATE	TIME	TPH 8015M	CHLORIDES (CI)	SULFATES (SO ₄)	pH	TCIP	OTHER >>>	PAH	
1	SB-1 (5')	G 1				X						X			25-Jan-11	10:40		X					
2	SB-1 (10')	G 1				X						X			25-Jan-11	10:50		X					
3	SB-1 (15')	G 1				X						X			25-Jan-11	11:00		X					
4	SB-1 (20')	G 1				X						X			25-Jan-11	11:07		X					
5	SB-1 (25')	G 1				X						X			25-Jan-11	11:20		X					
6																							
7																							
8																							
9																							
10																							

Company Name
Environmental Plus, Inc.

EPI Project Manager
David P. Duncan

Mailing Address
P.O. BOX 1558

City, State, Zip
Eunice New Mexico 88231

EPI Phone# / Fax#
575-394-3481 / 575-394-2601

Client Company
ExxonMobil

Facility Name
NM State S State TB

Location
UL-F, Sec. 02, T22S, R37E

Project Reference
190041

EPI Sampler Name
Kirby Bingham

Attn: David P. Duncan
P.O. Box 1558
Eunice, NM 88231

E-mail results to: david@epiplus.com, and
duncan@epiplus.com, david@epiplus.com

Company Name
Environmental Plus, Inc.

EPI Project Manager
David P. Duncan

Mailing Address
P.O. BOX 1558

City, State, Zip
Eunice New Mexico 88231

EPI Phone# / Fax#
575-394-3481 / 575-394-2601

Client Company
ExxonMobil

Facility Name
NM State S State TB

Location
UL-F, Sec. 02, T22S, R37E

Project Reference
190041

EPI Sampler Name
Kirby Bingham

Attn: David P. Duncan
P.O. Box 1558
Eunice, NM 88231

E-mail results to: david@epiplus.com, and
duncan@epiplus.com, david@epiplus.com

Company Name
Environmental Plus, Inc.

EPI Project Manager
David P. Duncan

Mailing Address
P.O. BOX 1558

City, State, Zip
Eunice New Mexico 88231

EPI Phone# / Fax#
575-394-3481 / 575-394-2601

Client Company
ExxonMobil

Facility Name
NM State S State TB

Location
UL-F, Sec. 02, T22S, R37E

Project Reference
190041

EPI Sampler Name
Kirby Bingham

Attn: David P. Duncan
P.O. Box 1558
Eunice, NM 88231

E-mail results to: david@epiplus.com, and
duncan@epiplus.com, david@epiplus.com

Company Name
Environmental Plus, Inc.

EPI Project Manager
David P. Duncan

Mailing Address
P.O. BOX 1558

City, State, Zip
Eunice New Mexico 88231

EPI Phone# / Fax#
575-394-3481 / 575-394-2601

Client Company
ExxonMobil

Facility Name
NM State S State TB

Location
UL-F, Sec. 02, T22S, R37E

Project Reference
190041

EPI Sampler Name
Kirby Bingham

Attn: David P. Duncan
P.O. Box 1558
Eunice, NM 88231

E-mail results to: david@epiplus.com, and
duncan@epiplus.com, david@epiplus.com

Company Name
Environmental Plus, Inc.

EPI Project Manager
David P. Duncan

Mailing Address
P.O. BOX 1558

City, State, Zip
Eunice New Mexico 88231

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Environmental Plus, Inc.
P.O. Box 1558
2100 Avenue O
Eunice, NM 88231
(575) 394-3481
(575) 394-2601 (fax)

FIELD MEASUREMENT/OBSERVATION LOG

COMPANY: ExxonMobil Corp. PROJECT NAME: New Mexico "S" State TB PROJECT NUMBER: EPI #190041

DATE: 5-21-10

PROJECT MANAGER: David Duncan

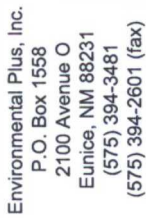
FIELD TECHNICIAN: Kurt Tyree

SAMPLE ID	SAMPLE DEPTH (FT)	COLLECTION TIME	PID ANALYSIS TIME	PID READING (PPM)	CHLORIDE ANALYSIS			SOIL DESCRIPTION
						Titration Tube Reading	mg/Kg	
ST-1	1	8:50	9:05	117	2 gms of soil	40 ml H ₂ O	44 x 20 = 880	Clay/Sand
ST-1	2	8:55	9:15	310	2 gms of soil	40 ml H ₂ O	40 x 20 = 800	Clay/Sand
ST-1	3	9:00	9:30	320	2 gms of soil	40 ml H ₂ O	36 x 20 = 720	Clay/Sand
ST-1	4	9:40	10:00	19.0	2 gms of soil	40 ml H ₂ O	28 x 20 = 560	Clay/Sand
ST-1	5	9:45	10:05	15.7	2 gms of soil	40 ml H ₂ O	36 x 20 = 720	Caliche
ST-1	6	9:50	10:10	17.4	2 gms of soil	40 ml H ₂ O	24 x 20 = 480	Caliche
BG-1	1	10:15	10:20	0.0	2 gms of soil	40 ml H ₂ O	12 x 20 = 240	Sand
ST-2	1	10:22	10:55	18.6	2 gms of soil	40 ml H ₂ O	64 x 20 = 1,280	Clay/Sand
ST-2	2	10:24	11:00	20.5	2 gms of soil	40 ml H ₂ O	80 x 20 = 1,600	Clay/Sand
ST-2	3	10:26	11:05	22.8	2 gms of soil	40 ml H ₂ O	64 x 20 = 1,280	Clay/Sand
ST-2	4	10:27	11:10	18.4	2 gms of soil	40 ml H ₂ O	64 x 20 = 1,280	Clay/Sand
ST-2	5	10:28	11:15	8.6	2 gms of soil	40 ml H ₂ O	80 x 20 = 1,600	Clay/Sand
ST-2	6	10:30	11:20	3.6	2 gms of soil	40 ml H ₂ O	80 x 20 = 1,600	Clay/Sand
ST-2	7	11:25	11:40	3.1	2 gms of soil	40 ml H ₂ O	68 x 20 = 1,360	Clay/Sand
ST-2	8	11:27	11:42	1.7	2 gms of soil	40 ml H ₂ O	44 x 20 = 880	Clay/Sand
ST-2	9	11:30	11:45	0.6	2 gms of soil	40 ml H ₂ O	72 x 20 = 1,440	Caliche
ST-2	10	11:50	12:10	0.7	2 gms of soil	40 ml H ₂ O	52 x 20 = 1,040	Caliche
ST-2	11	12:45	13:00	1.8	2 gms of soil	40 ml H ₂ O	28 x 20 = 560	Caliche
					2 gms of soil	40 ml H ₂ O	x 20 =	

PID CALIBRATION

WEATHER

Time	Fresh Air	Span Gas	Time	Fresh Air	Span Gas	Time	Temp.	Misc



FIELD MEASUREMENT/OBSERVATION LOG

PROJECT NUMBER: EPI #190041

PROJECT NAME: New Mexico "S" State TB #5

COMPANY: ExxonMobil Corp.

PROJECT MANAGER: David Duncan

FIELD TECHNICIAN: Danny Deaton

DATE: 7-29-10

[illegible]

PID CALIBRATION

[illegible]



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) NEW MEXICO S STATE TANK BATTERY SB-1				OSE FILE NUMBER(S)			
	WELL OWNER NAME(S) EXXON/MOBIL				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6810 NW 8000				CITY ANDREWS		STATE TX	ZIP 79714
	WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	* ACCURACY REQUIRED ONE TENTH OF A SECOND * DATUM REQUIRED WGS 84			
		LATITUDE 32	25	13.00 N				
	LONGITUDE 103	8	8.00 W					
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS WEST OF 18 & DRINKARD RD								
2. OPTIONAL	(2.5 ACRE) 1/4	(10 ACRE) 1/4	(40 ACRE) 1/4	(160 ACRE) 1/4	SECTION	TOWNSHIP <input type="checkbox"/> NORTH <input type="checkbox"/> SOUTH	RANGE <input type="checkbox"/> 1-34 <input type="checkbox"/> 35-37	
	SUBDIVISION NAME				LOT NUMBER	BLOCK NUMBER	UNIT/TRACT	
	HYDROGRAPHIC SURVEY				MAP NUMBER		TRACT NUMBER	
3. DRILLING INFORMATION	LICENSE NUMBER WD1478		NAME OF LICENSED DRILLER MARTIN STRAUB			NAME OF WELL DRILLING COMPANY STRAUB CORPORATION		
	DRILLING STARTED 1-25-11		DRILLING ENDED 1-25-11		DEPTH OF COMPLETED WELL (FT) 0	BORE HOLE DEPTH (FT) 25	DEPTH WATER FIRST ENCOUNTERED (FT) N/A	
	COMPLETED WELL IS <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		
	DRILLING FLUID <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD <input type="checkbox"/> ADDITIVES - SPECIFY							
	DRILLING METHOD <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY							
	DEPTH (FT)		BORE HOLE DIA (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
	FROM	TO						
	0		25	6	N/A	N/A	N/A	N/A
4. WATER BEARING STRATA	DEPTH (FT)		THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)			
	FROM	TO						
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA					TOTAL ESTIMATED WELL YIELD (GPM)			

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION	PAGE 1 OF 2	

5. SEAL AND PUMP	TYPE OF PUMP: <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> JET <input type="checkbox"/> NO PUMP - WELL NOT EQUIPPED <input type="checkbox"/> TURBINE <input type="checkbox"/> CYLINDER <input type="checkbox"/> OTHER - SPECIFY						
	ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT)		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
		FROM	TO				
		0	2				
	2	25	5	8 BAGS OF 3/8 PLUG		TOPLOAD	

6. GEOLOGIC LOG OF WELL	DEPTH (FT)		THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?	
	FROM	TO				
	0	8	8	TAN RED SILTY CLAY & SAND	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	8	9	1	TAN SILTY CLAY	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	9	13	4	SOFT CALICHE	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	13	17	4	TAN RED SILTY SAND & CLAY	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	17	25	8	TAN SILTY SAND & SOFT SANDSTONE	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	TD	25			<input type="checkbox"/> YES	<input type="checkbox"/> NO
					<input type="checkbox"/> YES	<input type="checkbox"/> NO
					<input type="checkbox"/> YES	<input type="checkbox"/> NO
					<input type="checkbox"/> YES	<input type="checkbox"/> NO
					<input type="checkbox"/> YES	<input type="checkbox"/> NO
					<input type="checkbox"/> YES	<input type="checkbox"/> NO
					<input type="checkbox"/> YES	<input type="checkbox"/> NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL.

7. TEST & ADDITIONAL INFO	WELL TEST	METHOD: <input type="checkbox"/> BAILER <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> OTHER - SPECIFY:	
		TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.	
	ADDITIONAL STATEMENTS OR EXPLANATIONS SOIL BORING ONLY- SOIL BORING WAS PLUGGED AND ABANDONED UPON COMPLETION OF SAMPLING		

8. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING.	
	 SIGNATURE OF DRILLER	2-10-11 DATE

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER

POD NUMBER

TRN NUMBER

LOCATION

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