

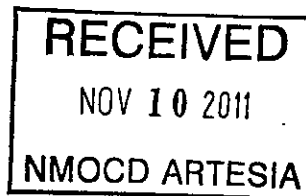


ENVIRONMENTAL PLUS, INC.

CONSULTING AND REMEDIAL CONSTRUCTION

26 October 2011

Mr. Mike Bratcher
Environmental Engineer
New Mexico Oil Conservation Division
1301 West Grand
Artesia, New Mexico 88210



RE: Remediation Closure Report
Exxon Mobil Corp. – Avalon Delaware Unit Well #238 Release Area
UL-K (NE ¼ of the SW ¼), Section 30, T 20 S, R 28 E
Longitude: 32° 32' 41.21"; Latitude: 103° 13' 15.65"
Eddy County, New Mexico
EPI Ref. #190037

2011 NOV -9 A 11:53
RECEIVED OGD

Dear Mr. Bratcher:

The below *Remediation Closure Report (Report)* is an abbreviated version depicting prominent remedial activities conducted on the above referenced Release Area. However, for clarity and cross references elimination purposes, the *Report* includes *Release History, Site Background, Preliminary Field Work, Analytical Data and Procedures* and *Field Remediation Activities*.

Release History

On July 28, 2009 at 12:30 p.m., produced water was released from a ruptured fiberglass injection flow line (3" dia.). Approximately eighty-three (83) barrels of produced water were released with zero (0) barrels of fluid recovered. Fluids released impacted $\pm 7,300$ square feet of surrounding terrain (Ref. *Figure #3*). The New Mexico Oil Conservation Division (NMOCD) was notified of the release on July 28, 2009 at 4:15 p.m.

Site Background

The Site is located in UL-K (NE ¼ of the SW ¼) of Section 30, T20S, R28E at an approximate elevation of 3,299 feet above mean sea level (amsl). The property is owned by the State of New Mexico and managed by the 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*). Subsequent drilling activities as described in *Field Work* indicated groundwater greater than one hundred sixty (160) feet below ground surface (bgs), but impacted material existed to approximately one hundred-ten (110) feet bgs at the point-of-release. Utilizing this information, NMOCD Remedial Threshold Goals (Goals) were determined as follows

ENVIRONMENTAL PLUS, INC.



Parameter	Remedial Goal
Benzene	10 mg/Kg
BTEX	50 mg/Kg
TPH	100 parts mg/Kg
Chlorides	500 mg/Kg

Preliminary Field Work

On July 29, 2008 Environmental Plus, Inc., (EPI) reacted to an Emergency Response and started preventative remediation activities on the Release Area. During the period of July 28-29, 2009, the fiberglass injection line was located and exposed allowing roust-a-bout crews to repair it. However, eventually the fiberglass injection line was temporarily abandoned in favor of a shorter route. Initially impacted material surrounding the fiberglass injection line was excavated and stockpiled on plastic liners to prevent contamination of adjacent areas. From July 30-August 03, 2009 approximately 920-cubic yards of impacted material were transported to Sundance Services, Inc., (Permit No. NM-01-0003) for disposal. Remainder of impacted material was stockpiled on plastic liners.

On July 30, 2009 eight (8) soil samples were collected from side walls and five (5) from bottom of the excavation. Soil samples were tested in the field for chloride concentrations. As the nature of the release being produced water, field analyses were not conducted for TPH concentrations. On July 31, 2009 a test trench was excavated to a depth of twenty (20)-feet bgs. Soil samples were collected at two (2)-feet intervals and field tested for chloride concentrations (Ref. *Table #2*). Due to chloride concentrations being greater than NMOCD Goals of 500-mg/Kg, soil samples were not submitted to an independent laboratory for analyses.

EPI and Straub Corporation mobilized to the Site on August 13, 2009 to direct the location and advancement of three (3) soil borings (i.e., BG-1, SB-1 and SB-2) with BG-1 serving as background comparison for chloride concentrations (Ref. *Figure #4* for locations). A predetermined depth of seventy (70) vertical feet was established to prevent intrusion into suspected groundwater table. Soil samples were collected at varying intervals dependent upon chloride concentrations derived from field analyses (Ref. *Table #3* for interval ranges and concentrations).

On March 3, 2010 EPI and Straub Corporation mobilized to the Site for advancement of SB-3. The soil boring was advanced to approximately sixty-two (62) feet below bottom of excavation (~70-feet bgs). Thirteen (13) field analyses were conducted on soil samples collected at five (5) feet intervals from bottom of excavation to total depth (TD) of soil boring. However, only portions of soil samples collected initially at five (5) feet bgs then at ten (10) feet intervals to TD were sent to an independent laboratory for analyses of chloride concentrations (Ref. *Table #3*).

Without sufficient data to correctly identify depth of groundwater, EPI and Straub Corporation mobilized to the Site on June 14, 2010 to advance an exploratory bore hole for this purpose. BG-2 was advanced to a depth of one hundred sixty (160) feet bgs with no trace of groundwater indicated



in the drill cuttings. The soil boring was covered for protection and allowed to develop overnight. On June 15, 2010 an E-line water probe was inserted into the soil boring to TD without detecting evidence of groundwater. The soil boring was plugged using bentonite, filler material and cement. Due to the soil boring being exploratory in nature, no soil samples were collected for analyses of chloride concentrations. However, well logs were developed of the underlying formations.

In an endeavor to identify depth of impacted soil, EPI and Straub Corporation mobilized to the Site on August 24, 2010. Locating SB-4 as near to original point-of-release as possible, the soil boring was advanced to one-hundred ten (110) bgs. Soil samples were initially collected at ten (10) feet bgs [approximately two (2) feet below bottom of excavation] then at five (5) feet intervals to thirty (30) feet bgs. From this interval to TD of the soil boring, soil samples were collected at ten (10) feet intervals. Although impacted material at TD indicated chloride concentrations slightly above NMOCD Goals of 500-mg/Kg existed, declining chloride concentration would allow extrapolation of data to determine depth of acceptable levels. The soil boring was plugged using bentonite, filler material and cement.

Analytical Data and Procedures

In reviewing bottom of the excavation, *Table #3* (Analytical Data) and *Figure #6* (Soil Boring Map), indicate chloride concentrations greater than NMOCD Goals of 500-mg/Kg exist in soil borings from ground surface to TD, i.e., SB-3 (7,120 mg/Kg @ 62-feet) and SB-4 (560 mg/Kg @ 110 feet) while other soil borings come into compliance prior to TD, i.e., SB-1 (200mg/Kg @ 60 feet) and SB-2 (448 mg/Kg @ 30 feet). In the southeasterly direction of the excavation, chloride concentrations dissipate between BH-2 (240 mg/Kg) and BH-3 (9,480 mg/Kg). Evaluating these values indicate impacted material surrounds the point-of-release and extends in the southeasterly direction following natural lay of the ground.

Upon collection of soil samples, a portion of each soil sample was field analyzed for organic vapors and chloride concentrations. Soil Samples collected for field testing of organic vapors were placed in self-sealing polyethylene bags and allowed to equilibrate to 70° F. The soil sample was 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, labeled, placed into polyethylene bags, inserted in coolers, iced down and transported to an independent laboratory for analyses of Constituent-of-Concern under Chain-of-Custody protocol.

Field Remediation Activities

Vertical limits of impacted material are confined to a relatively small conical shaped area centered around the point-of-release. Geological information derived from well bore logs indicate a dense layer of caliche combined with clay undermines the impacted area. With groundwater depth greater than one hundred-sixty (160) vertical feet bgs, chances of groundwater contamination are remote. After consultations with the NMOCD, it was resolved to place a 40-mil polyethylene liner in the bottom of the excavation and concentrate excavation of sidewalls until NMOCD Goals were achieved. Additionally, bottom of excavation was to be cleaned of loose material and removal of



major irregularities. Remove material bridging the two (2) excavations to a depth which allows smooth transition from the differential gradients.

From August 22-September 1, 2011, EPI excavated and transported approximately 2,600 cubic yards of impacted material from existing stockpiled material, bottom, inter-connecting bridged area and side walls of the excavation to Controlled Recovery, Inc., (CRI) for disposal. Finished excavation covered an area of 16,480 square feet and ranged from 5-15 feet in depth. Soil samples were collected from side walls and field analyzed for chloride concentrations. When field analyses indicated side walls were in conformance with NMOCD Goals, fifteen (15) representative soil samples were collected from side walls (Ref. *Figure #7* for locations and *Table #2* for analytical results), packaged as outlined in *Analytical Data and Procedures* section and remitted to Cardinal Laboratory, Hobbs, New Mexico under Chain-of-Custody protocol. Upon receipt of confirmatory lab results indicating soil samples were in compliance with NMOCD Goals for chloride concentrations, backfill activities commenced.

From September 2-6, 2011, bottom of the excavation was backfilled with a minimum one (1) foot layer of clean top soil free of deleterious material, rocks and large clumps. On September 7, 2011, Akome Inc., Hobbs, New Mexico placed approximately 12,800 square feet of 40-mil polyethylene liner over the entire bottom section. A minimum two (2) feet of clean top soil was carefully placed over the 40-mil polyethylene layer as cushion protection from heavy equipment. The remaining excavation was carefully backfilled with clean top soil using acceptable procedures. From September 2 – September 19, 2011 approximately 4,000 cubic yards of top soil were used for backfill purposes. During this time frame, the backfilled and adjoining areas were contoured for natural drainage, preventing wind/water erosion and water pooling. However, as a precautionary measure, top soil was stockpiled for later surficial use in the event of minor erosion.

Following completion of backfill operations, approximately three-quarter mile of lease road was repaired, bladed and contoured to allow proper drainage. Approximately 300 cubic yards of caliche (NMSLO Pit #514) were used for this activity.

Remaining corrective activity is seeding of the disturbed areas with seed mixture acceptable to the NMSLO. Prior to seeding activity, the entire disturbed area will be disced to loosen the upper soil crust. Seed mixture will be deep drill seeded at a rate exceeding recommended application rate. However, due to the extreme drought conditions, EPI recommends delaying seeding operations until both ground and weather conditions are more conducive to vegetative growth. This may require postponement until late spring of 2012.

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 e-mail at dduncanepi@gmail.com.

Official communications should be directed to Mr. Eric Imken at (432) 596-4211 x 14 (office), (434) 266-0373 (cellular) or via e-mail at eric.imken@exxonmobil.com. Official correspondence should be addressed to:

Mr. Eric Imken
ExxonMobil Fullerton/Seminole and New Mexico
Operations Foreman
6810 NW 8000
Andrews, Texas 79714



Sincerely,

ENVIRONMENTAL PLUS, INC.,

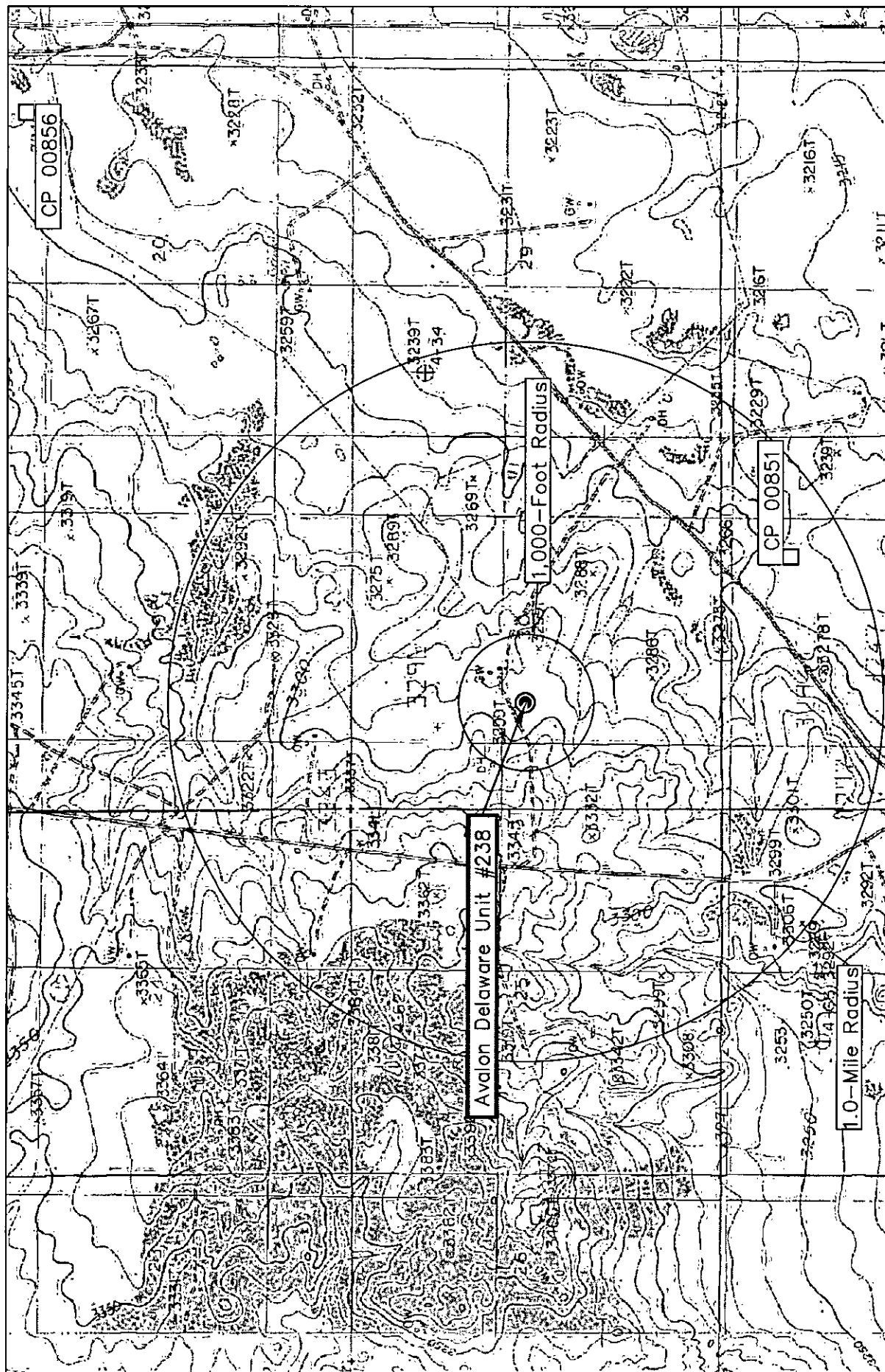
David P. Duncan
Civil Engineer
EPI Project Manager

Cc: Eric Imken, Operations Foreman – ExxonMobil Corporation
Cody Miller, General Manager – EPI
Roger Boone, Operations Superintendent – EPI
Myra Harrison, District Resources Manager – NMSLO (Hobbs, NM)
Steven Ikeda, Field Operations – NMSLO (Santa Fe, NM)

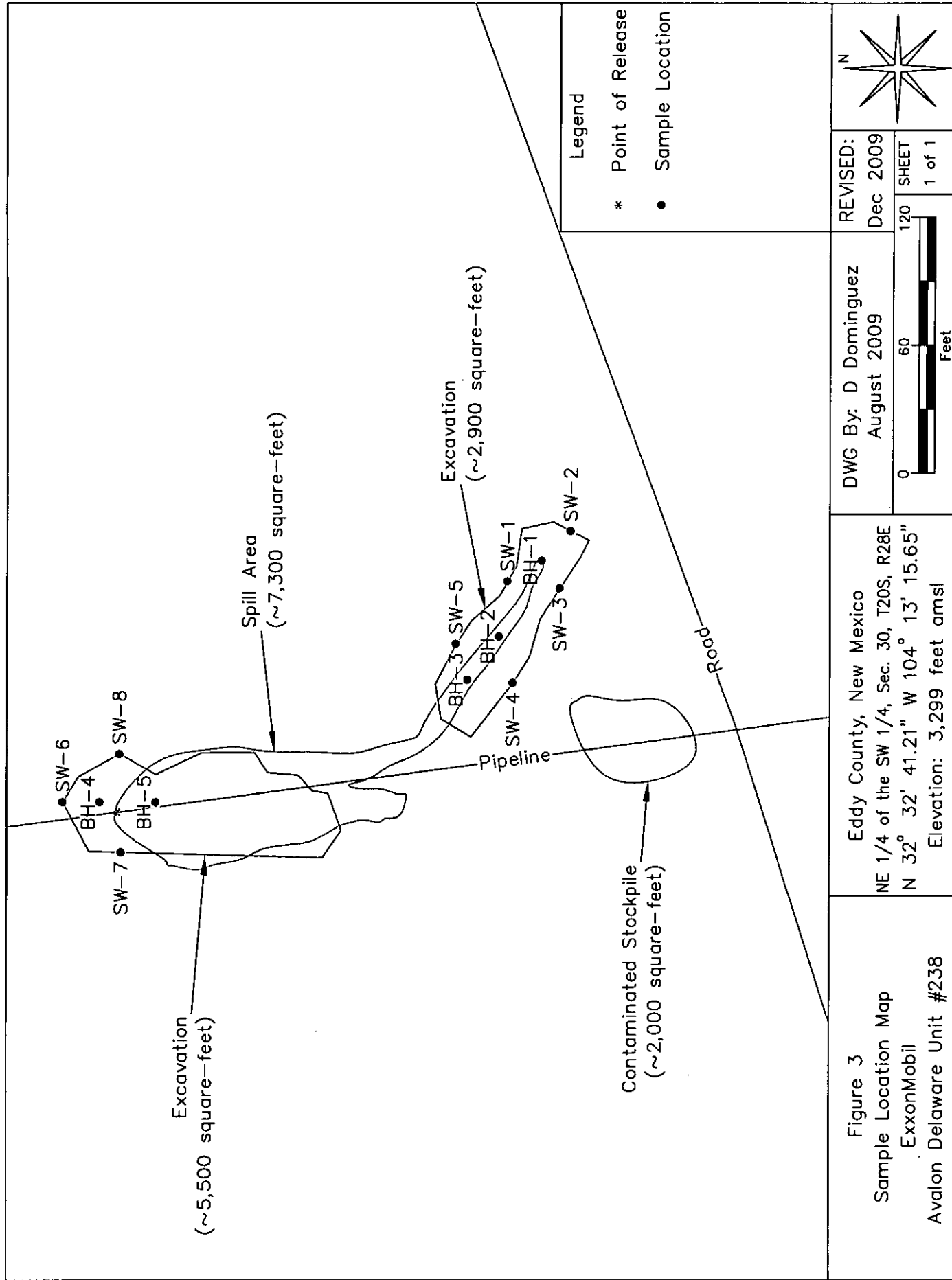
Enclosures:

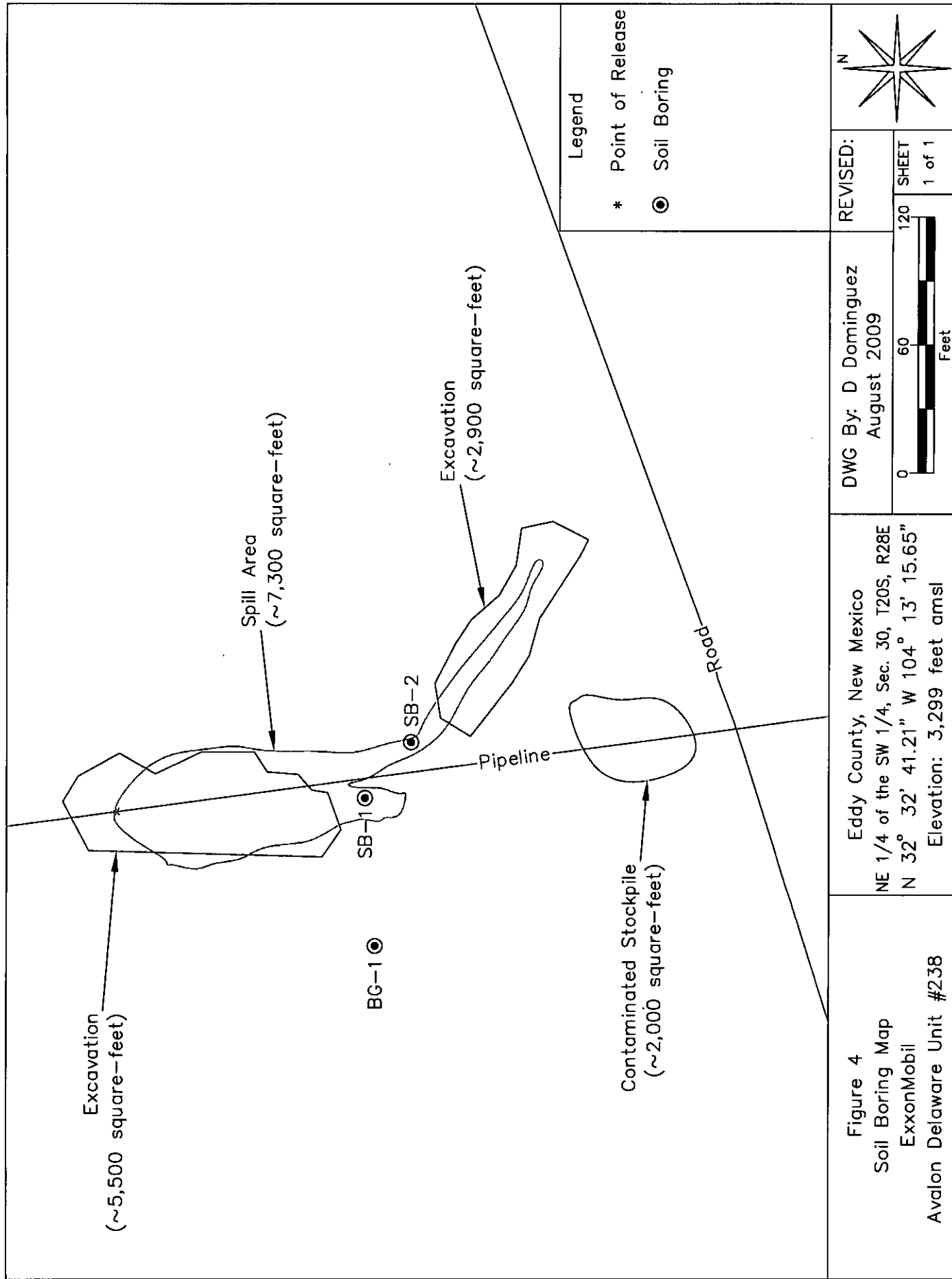
Figure 1 – Area Map
Figure 2 – Site Location Map
Figure 3 – Site Map with Soil Sample Locations
Figure 4 – Site Map with Side Wall Soil Sample Locations
Figure 5 – Soil Sample Location Map (3-03-10)
Figure 6 – Soil Boring Locations with Analytical results
Figure 7 – Sidewall Soil Sample Location Map
Table 1 – Well Data
Table 2 – Summary of Excavation Field Analyses and Laboratory Analytical Results
Table 3 – Summary of Soil Boring Field Analyses and Laboratory Analytical Results
Attachment I – Site Photographs
Attachment II – Laboratory Analytical Results and Chain-of-Custody Forms
Attachment III – Soil Boring Logs
Attachment IV – Copy of Initial NMOCD Form C-141
Final NMOCD Form C-141

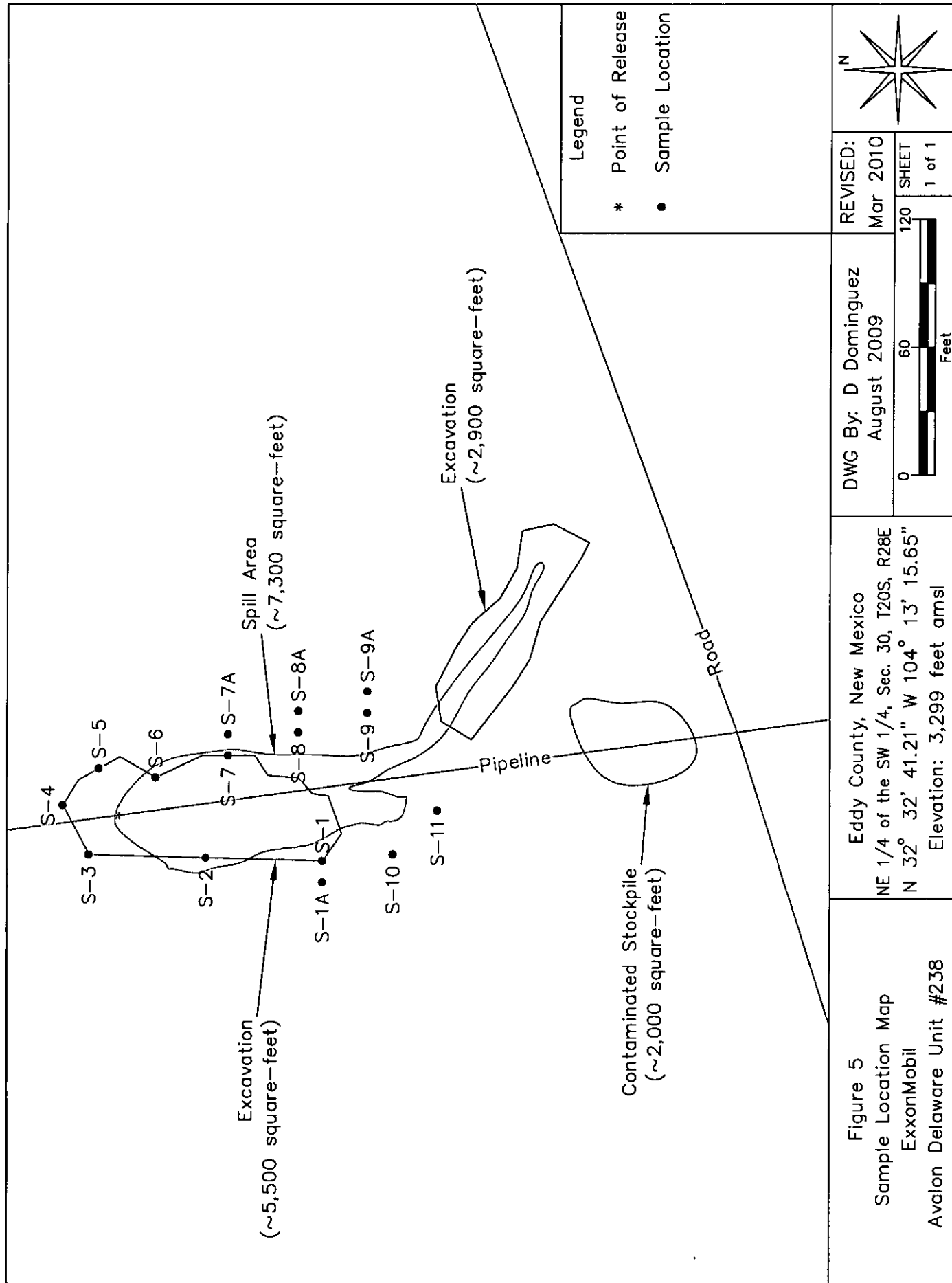
FIGURES

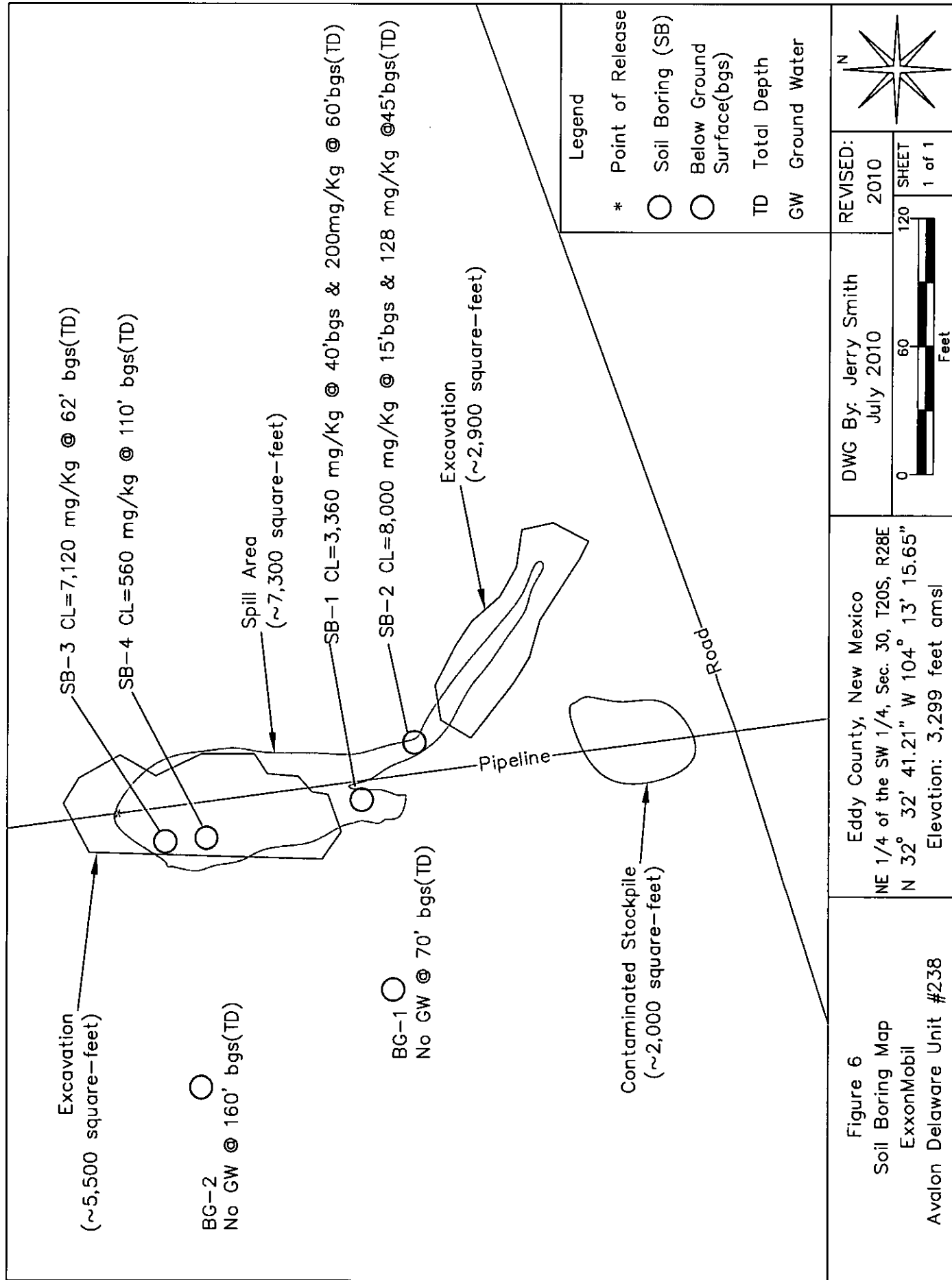


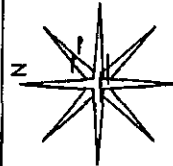
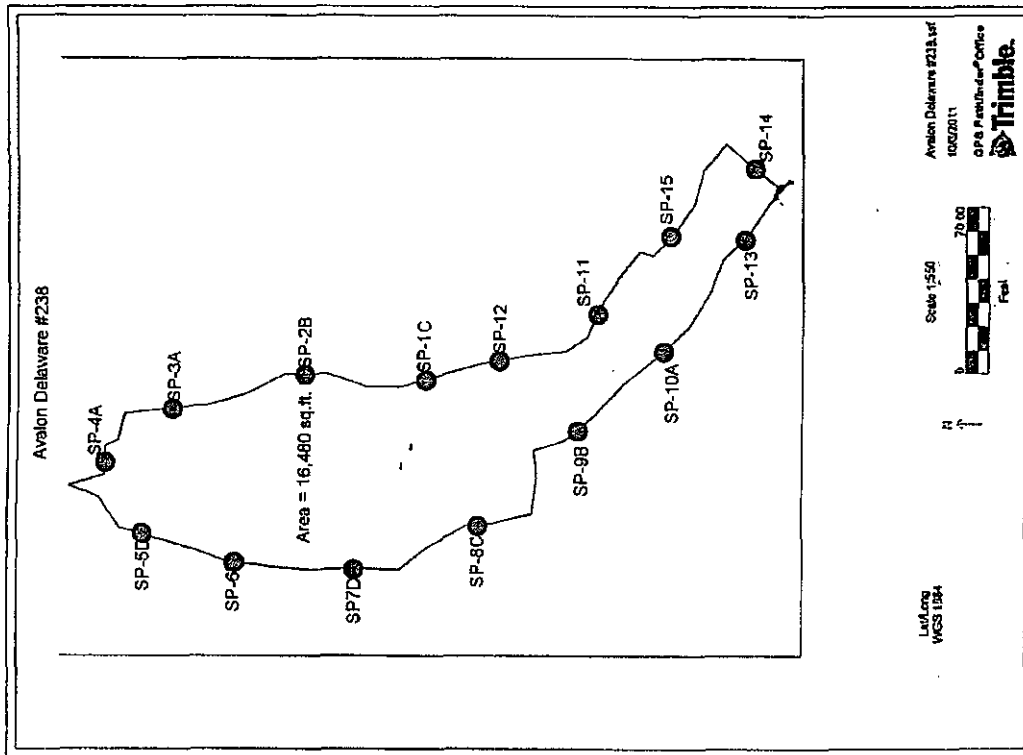
	REVISED:	DWG By: D Dominguez August 2009	SHEET 1 of 1
Eddy County, New Mexico NE 1/4 of the SW 1/4, Sec. 30, T20S, R28E N 32° 32' 41.21" W 104° 13' 15.65" Elevation: 3,299 feet amsl			
Figure 2 Site Location Map ExxonMobil Avalon Delaware Unit #238			











REVISED:
Mar 2010

DWG By: Jerry Smith
October 2011

SHEET
1 of 1

Eddy County, New Mexico
NE 1/4 of the SW 1/4, Sec. 30, T20S, R28E
N 32° 32' 41.21" W 104° 13' 15.65"
Elevation: 3,299 feet amsl

Figure 7
Sample Location Map
ExxonMobil
Avalon Delaware Unit #238

TABLES

TABLE 1
WELL INFORMATION REPORT*
ExxonMobil - Avalon Delaware Unit #238 (Ref #190037)

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 00851	3	EXXON CORPORATION	SAN	20S	28E	31 2 1 4	N32° 32' 3.69"	W104° 12' 51.09"	14-Sep-95	3,235	115
CP 00856	0	INTERCOAST OIL & GAS	PRO	20S	28E	20 2 2	N32° 33' 51.94"	W104° 11' 36.90"		3,240	
CP 02065	3	EXXON CORPORATION	PRO	20S	28E	31 4 4	N32° 31' 27.76"	W104° 12' 39.03"		3,215	
CP 00746	0	BRUCE RIGGS	STK	20S	28E	32 4 3 1	N32° 31' 31.13"	W104° 11' 56.26"		3,199	
CP 01923	3	MWJ PRODUCING COMPANY	PRO	20S	27E	36 4 2	N32° 31' 40.75"	W104° 13' 41.97"	03-Sep-80	3,280	

* = 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

PRO = 72-12-1 Prospecting or development of natural resource

STK = 72-12-1 Livestock watering

SAN = 72-12-1 Sanitary in conjunction with a commercial use

(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

TABLE 2

Summary Excavation Soil Sample Field Analyses and Laboratory Analytical Results

Exxon Mobil - Avalon Delaware Unit Well #238

NMOCD Ref. ; EPI Ref. #190037

UL-K (NE1/4 of the SW1/4) of Section 30, T20S, R28E; Eddy County, New Mexico

[illegible]

Summary Excavation Soil Sample Field Analyses and Laboratory Analytical Results

Exxon Mobil - Avalon Delaware Unit Well #238

NMOCD Ref.; EPI Ref. #190037

UL-K (NE1/4 of the SW1/4) of Section 30, T20S, R28E; Eddy County, New Mexico

[illegible]

TABLE 2

Summary Excavation Soil Sample Field Analyses and Laboratory Analytical Results

Exxon Mobil - Avalon Delaware Unit Well #238

NMOCD Ref. ; EPI Ref. #190037

UL-K (NE1/4 of the SW1/4) of Section 30, T20S, R28E; Eddy 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-C12 (mg/Kg)	Carbon Ranges C12-C28 (mg/Kg)	Carbon Ranges C28-C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
SP-7B	3	Excavated	26-Aug-11	--	1,880										
SP-7C	3	Excavated	30-Aug-11	--	560										
SP-7D	3	In Situ	30-Aug-11	--	360										144
SP-8	3	Excavated	24-Aug-11	--	4,000+										
SP-8A	3	Excavated	25-Aug-11	--	1,720										
SP-8B	3	Excavated	26-Aug-11	--	600										
SP-8C	3	In Situ	30-Aug-11	--	240										96.0
SP-9	3	Excavated	26-Aug-11	--	4,000+										
SP-9A	3	Excavated	30-Aug-11	--	600										
SP-9B	3	In Situ	30-Aug-11	--	320										16.0
SP-10	3	Excavated	26-Aug-11	--	720										
SP-10A	3	In Situ	30-Aug-11	--	200										16.0
SP-11	3	In Situ	26-Aug-11	--	360										16.0
SP-12	3	In Situ	26-Aug-11	--	320										160
SP-13	3	In Situ	30-Aug-11	--	200										32.0
SP-14	3	In Situ	30-Aug-11	--	240										64.0
SP-15	3	In Situ	30-Aug-11	--	240										64.0
NMOCD Remedial Thresholds				100		10				50				100	500

Bold values exceed NMOCD remedial threshold goals

-- = Not Analyzed

UL-K (NE1/4 of the SW1/4) of Section 30, T20S, R28E; Eddy County, New Mexico

[illegible]

Summary Soil Boring Field Analyses and Laboratory Analytical Results

NMOC D Ref.: EPI Ref. #190037

UL-K (NE1/4 of the SW1/4) of Section 30, T20S. R28E; Eddy County, New Mexico

[illegible]

TABLE 3

Summary Soil Boring Field Analyses and Laboratory Analytical Results

Exxon Mobil - Avalon Delaware Unit #238

NMOCD Ref. ; EPI Ref. #190037

UL-K (NE1/4 of the SW1/4) of Section 30, T20S, R28E; Eddy 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-C12 (mg/Kg)	Carbon Ranges >C12-C28 (mg/Kg)	Carbon Ranges >C28-C35 (mg/Kg)	Total TPH C6-C35 (mg/Kg)	Chloride (mg/Kg)
SB #4 - 3	20	In situ	24-Aug-10	--	>4,000	--	--	--	--	--	--	--	--	--	6,880
SB #4 - 4	25	In situ	24-Aug-10	--	>4,000	--	--	--	--	--	--	--	--	--	8,400
SB #4 - 5	30	In situ	24-Aug-10	--	>4,000	--	--	--	--	--	--	--	--	--	7,100
SB #4 - 6	40	In situ	24-Aug-10	--	>4,000	--	--	--	--	--	--	--	--	--	8,560
SB #4 - 7	50	In situ	24-Aug-10	--	>4,000	--	--	--	--	--	--	--	--	--	7,760
SB #4 - 8	60	In situ	24-Aug-10	--	>4,000	--	--	--	--	--	--	--	--	--	5,840
SB #4 - 9	70	In situ	24-Aug-10	--	1,440	--	--	--	--	--	--	--	--	--	1,620
SB #4 - 10	80	In situ	24-Aug-10	--	1,040	--	--	--	--	--	--	--	--	--	1,200
SB #4 - 11	90	In situ	24-Aug-10	--	640	--	--	--	--	--	--	--	--	--	672
SB #4 - 12	100	In situ	24-Aug-10	--	400	--	--	--	--	--	--	--	--	--	400
SB #4 - 13	110	In situ	24-Aug-10	--	560	--	--	--	--	--	--	--	--	--	560
NMOCD Remedial Thresholds															500

Bold values exceed NMOCD remedial threshold goals

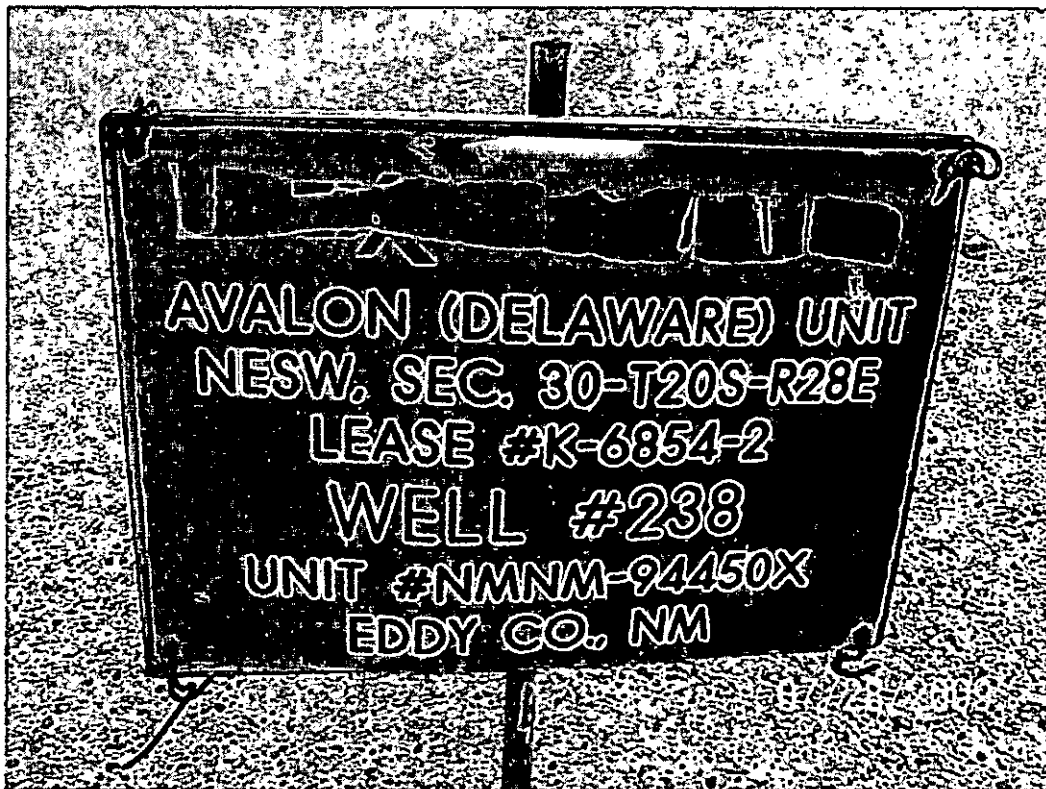
** = Solids would not settle out due to clay particulate matter

-- = Not Analyzed

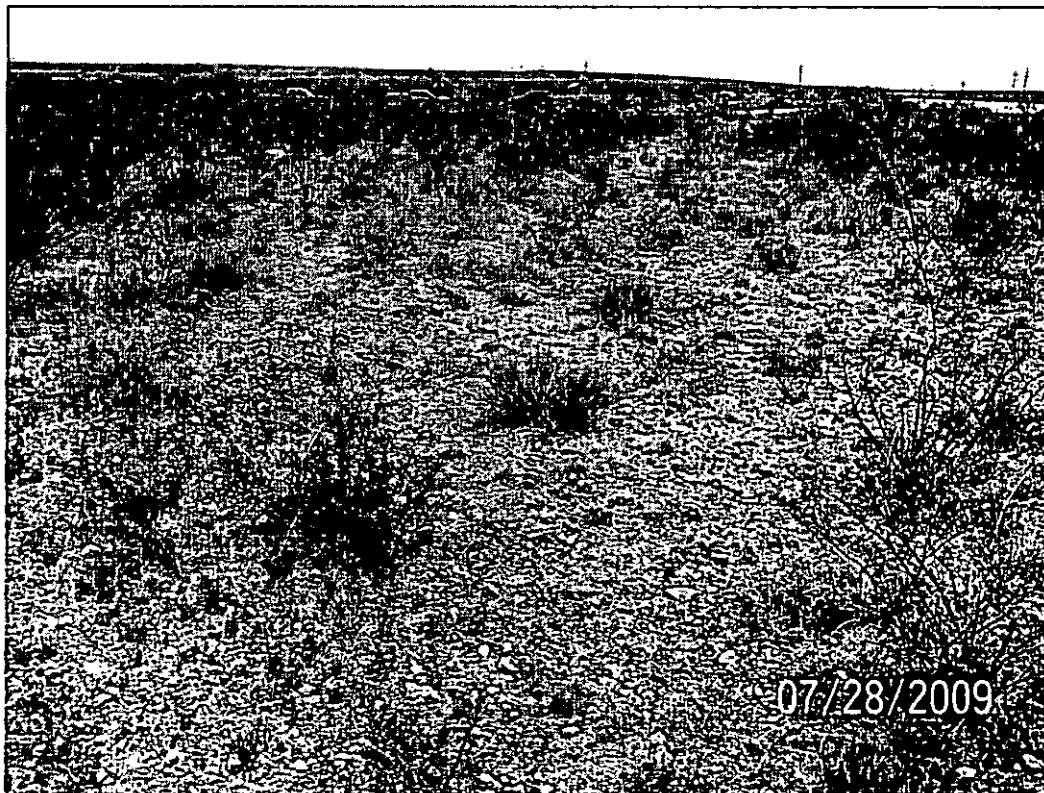
Soil Sample Nomenclature: SB = Soil Boring Hole; BG = Background Soil Boring Hole; S = Surface

ATTACHMENTS

ATTACHMENT I
PHOTOGRAPHS



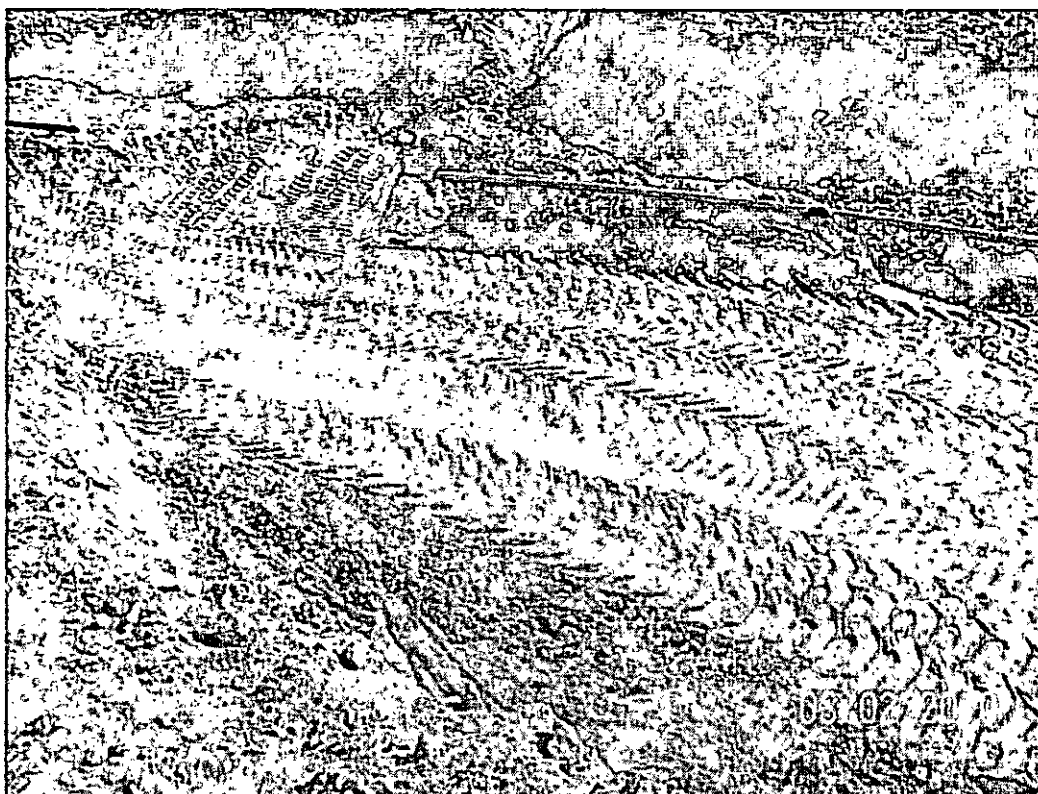
Photograph No. 1 – Lease Sign



Photograph No. 2 – Looking easterly at original Release Area



Photograph No. 3 – Looking northwesterly at preliminary excavation and 3" dia. FG Injection Line



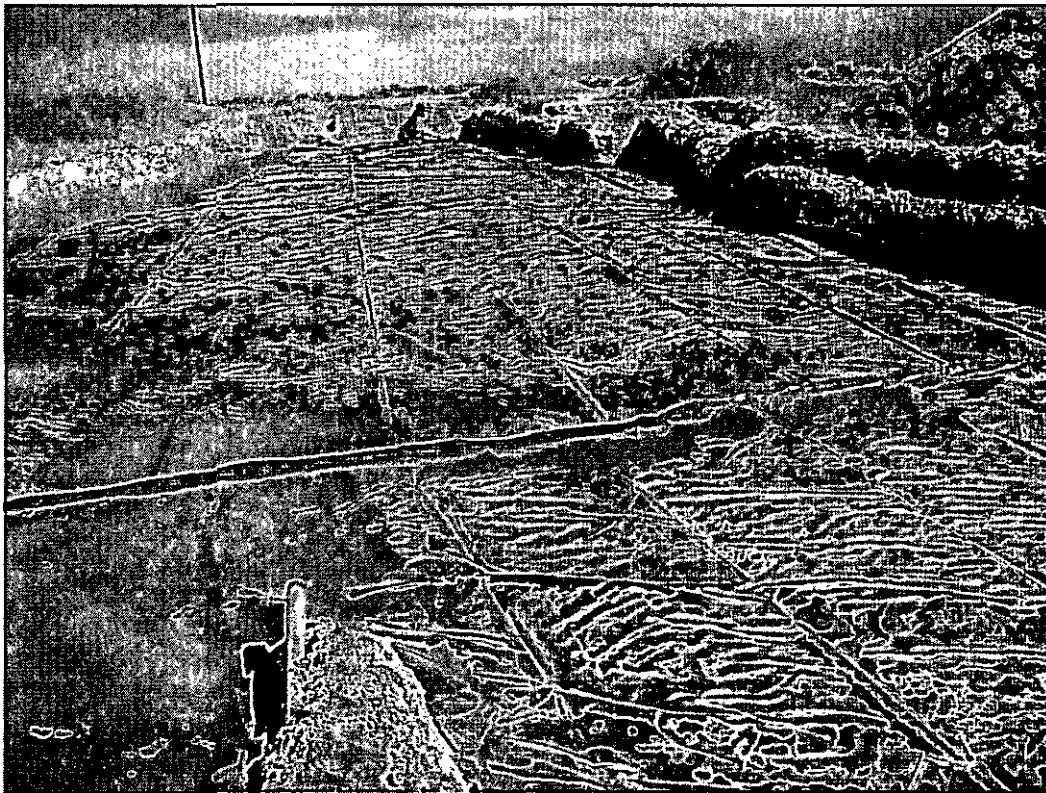
Photograph #4 – Looking northerly at preliminary excavation and disconnected 3" dia. FG Injection Line



Photograph No. 5 – Looking westerly at final excavation and partially leveled bottom



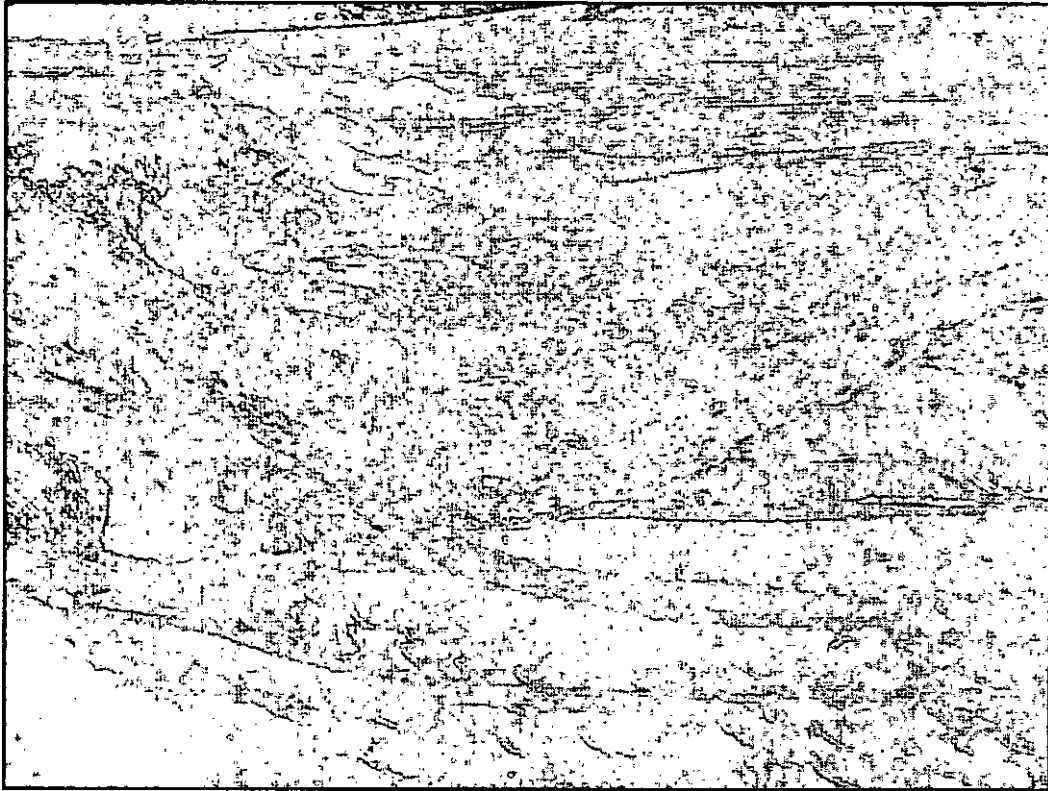
Photograph No. 6 – Looking easterly at final excavation and layer of cushion top soil across bottom for 40-mil polyethylene liner



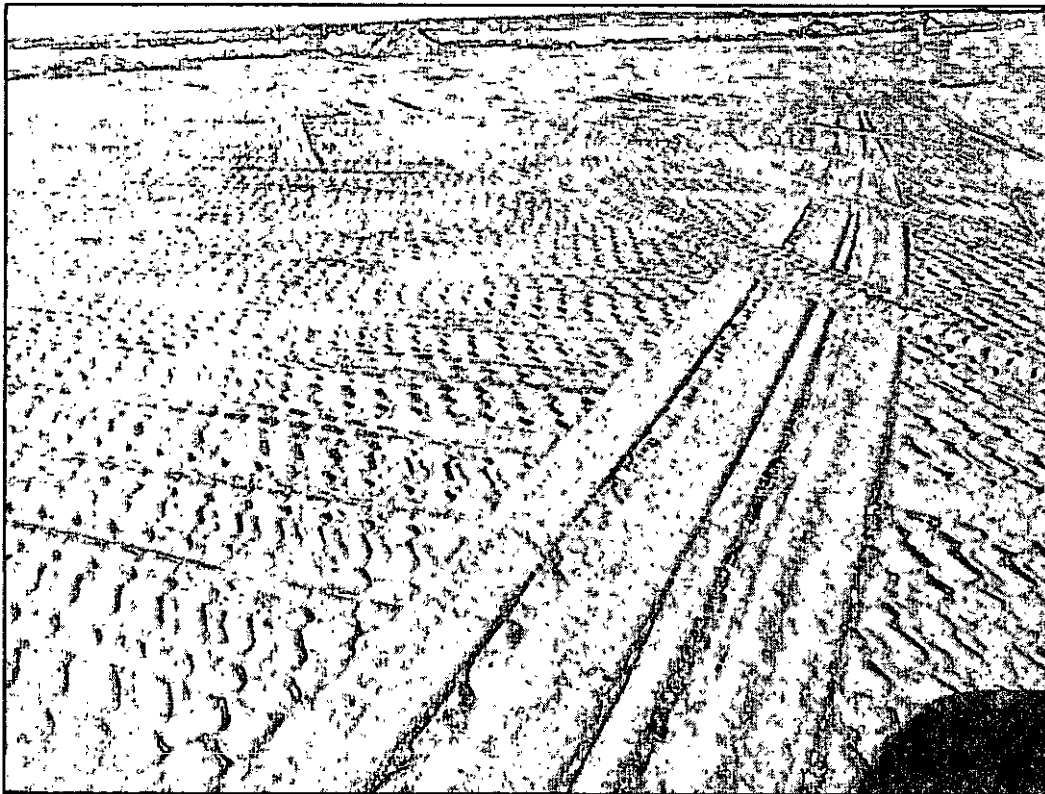
Photograph No. 7 – Looking northwesterly at 40-mil Polyethylene Liner on bottom of excavation



Photograph No. 8 – Looking westerly at partial backfill over 40-mil Polyethylene Liner



Photograph No. 9 – Looking at partially backfilled excavation



Photograph No.10 – Looking easterly at finished backfill gradient and stockpiled top soil

ATTACHMENT II

**LABORATORY ANALYTICAL RESULTS AND CHAIN-
OF-CUSTODY FORMS**



ARDINAL LABORATORIES

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

August 18, 2009

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

Re: ExxonMobil (190037)

Enclosed are the results of analyses for sample number H17993, received by the laboratory on 08/14/09 at 10:20 am.

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: 4 (includes Chain of Custody)

Sincerely,


Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.



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

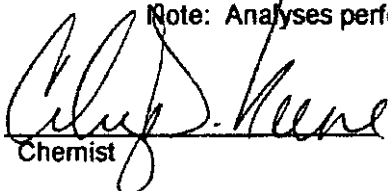
Receiving Date: 08/14/09
Reporting Date: 08/18/09
Project Owner: EXXONMOBIL (190037)
Project Name: AVALON DELEWARE UNIT #238
Project Location: UL-K, SEC. 30, T20S, R28E

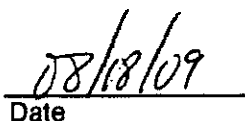
Analysis Date: 08/17/09
Sampling Date: 08/13/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 6°C
Sample Received By: AB
Analyzed By: AB

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/kg)
H17993-1	BG-3 (20')	32
H17993-2	BG-5 (40')	16
H17993-3	BH#1-1 (5')	32,800
H17993-4	BH#1-6 (30')	6,800
H17993-5	BH#1-7 (40')	3,360
H17993-6	BH#1-8 (50')	656
H17993-7	BH#1-9 (60')	200
H17993-8	BH#2-1 (5')	11,700
H17993-9	BH#2-3 (15')	8,000
H17993-10	BH#2-4 (20')	608
H17993-11	BH#2-5 (25')	656
H17993-12	BH#2-6 (30')	448
H17993-13	BH#2-7 (35')	416
H17993-14	BH#2-8 (40')	112
H17993-15	BH#2-9 (45')	128
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods 4500-Cl⁻B

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


Chemist


Date

H17993EPI

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: Cardinal

Company Name Environmental Plus, Inc.		Bill To		ANALYSIS REQUEST											
EPI Project Manager David P. Duncan		Attn: David P. Duncan													
Mailing Address P.O. BOX 1558		P.O. Box 1558													
City, State, Zip Eunice New Mexico 88231		Eunice, NM 88231													
EPI Phone#/Fax# 575-394-3481 / 575-394-2601															
Client Company ExxonMobil															
Facility Name Avalon Deleware Unit #238															
Location UL-K, Sec. 30, T20S, R28E															
Project Reference 190037															
EPI Sampler Name Kirt Tyree															

LAB I.D.	SAMPLE I.D.	MATRIX				PRESERV.			SAMPLING		TIME	BTEX 80218	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
H17993-1	BG-3 (20')													X						
- 2	BG-5 (40')													X						
- 3	BH#1-1 (5')													X						
- 4	BH#1-6 (30')													X						
- 5	BH#1-7 (40')													X						
- 6	BH#1-8 (50')													X						
- 7	BH#1-9 (60')													X						
- 8	BH#2-1 (5')													X						
- 9	BH#2-3 (15')													X						
- 10	BH#2-4 (20')													X						

Sampled Relinquished by: <i>Kirt Tyree</i>	Received By: <i>Boone</i>	8/14/2009 Time 0700	E-mail results to: dduncan@envplus.net
	Relinquished by: <i>Kirt Tyree</i>	8/14/2009 Time 10:20	
Delivered by: <i>Kirt Tyree</i>	#66 6°C	Sample Cool & Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Checked By: <i>JB</i>

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					
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 Avalon Deleware Unit #238					
Location UL-K, Sec. 30, T20S, R28E					
Project Reference 190037					
EPI Sampler Name Kirt Tyree					



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

LAB I.D.	SAMPLE I.D.	(G) RAB OR (C) OMP.	MATRIX						PRESERV.			SAMPLING		TIME	BTEX 8021B	TPH 8015M	CHLORIDES (CI)	SULFATES (SO ₄)	PH	TCLP	OTHER >>>	PAH			
			GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE													
117993-11	BH#2-5 (25')	G 1			X							X			13-Aug-09			X							
117993-12	BH#2-6 (30')	G 1			X							X			13-Aug-09			X							
117993-13	BH#2-7 (35')	G 1			X							X			13-Aug-09			X							
117993-14	BH#2-8 (40')	G 1			X							X			13-Aug-09			X							
117993-15	BH#2-9 (45')	G 1			X							X			13-Aug-09			X							
16																									
17																									
18																									
19																									
20																									

Sampled By: <i>Kirt Tyree</i>	8/14/2009	Received By:	8/14/2009
	Time 0700	<i>Roger Boone</i>	
Relinquished by: <i>Roger Boone</i>	8/14/2009	Received By: (lab staff)	8/14/2009
	Time 10:20	<i>RB</i>	
Delivered by:	#26600	Sample Cool & Intact	Yes
			No

E-mail results to: dduncan@envplus.net



ARDINAL LABORATORIES

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

March 8, 2010

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

Re: ExxonMobil (190037)

Enclosed are the results of analyses for sample number H19377, received by the laboratory on 03/04/10 at 3:40 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.

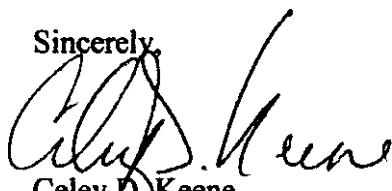
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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.



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: 03/04/10
Reporting Date: 03/05/10
Project Owner: EXXONMOBIL (190037)
Project Name: AVALON DELEWARE UNIT #238
Project Location: UL-K, SEC.30, T20S, R28E


Analysis Date: 03/05/10
Sampling Date: 08/13/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 4.5°C
Sample Received By: JH
Analyzed By: HM

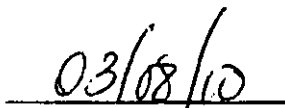
LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/kg)
H19377-1	BH#1 - 2 (10')	13,400
H19377-2	BH#1 - 3 (15')	12,200
H19377-3	BH#1 - 4 (20')	10,800
H19377-4	BH#1 - 5 (25')	8,500
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		2.0

METHOD: Standard Methods	4500-Cl ⁻ B
--------------------------	------------------------

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

*Analyses performed outside EPA recommended hold time of 28 days.


Chemist


Date

H19377 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.

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.		Remit Invoice 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		Avalon Deleware Unit #238																			
Location		UL-K, Sec. 30, T20S, R28E																			
Project Reference		190037																			
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											
H19377-1	1 BH#1 - 2 (10')	G 1			X							X											
-2	2 BH#1 - 3 (15')	G 1			X							X											
-3	3 BH#1 - 4 (20')	G 1			X							X											
-4	4 BH#1 - 5 (25')	G 1			X							X											
5																							
6																							
7																							
8																							
9																							
10																							

Sampler Relinquished:	3/4/2010	Received By:	E-mail results to: dduncan@envplus.net
	Time 9:12	Received By: (lab staff)	
Relinquished by:	3/4/2010	Received By: (lab staff)	dduncanepi@gmail.com
	Time 13:40	Received By: (lab staff)	
Delivered by:	Sample Col & Intact	Checked By:	
	4:50 PM	No	

#26



ARDINAL LABORATORIES

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

March 8, 2010

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

Re: ExxonMobil (190037)

Enclosed are the results of analyses for sample number H19378, received by the laboratory on 03/04/10 at 3:40 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.



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

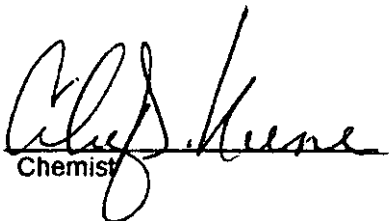
Receiving Date: 03/04/10
Reporting Date: 03/05/10
Project Owner: EXXONMOBIL (190037)
Project Name: AVALON DELEWARE UNIT #238
Project Location: UL-K, SEC.30, T20S, R28E

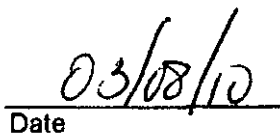
Analysis Date: 03/05/10
Sampling Date: 03/03/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 4.5°C
Sample Received By: JH
Analyzed By: HM

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/kg)
H19378-1	BH#3 - 1 (5')	9,800
H19378-2	BH#3 - 3 (15')	8,800
H19378-3	BH#3 - 5 (25')	6,400
H19378-4	BH#3 - 7 (35')	6,960
H19378-5	BH#3 - 9 (45')	8,720
H19378-6	BH#3 - 11 (55')	5,920
H19378-7	BH#3 - 13 (62')	7,120
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		2.0

METHOD: Standard Methods 4500-Cl⁻B

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


Chemist


Date

H19378 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.

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.		Remit Invoice To:		ANALYSIS REQUEST									
EPI Project Manager David P. Duncan		Attn: David P. Duncan											
Mailing Address P.O. BOX 1558		P.O. Box 1558											
City, State, Zip Eunice New Mexico 88231		Eunice, NM 88231											
EPI Phone#/Fax# 575-394-3481 / 575-394-2601													
Client Company ExxonMobil													
Facility Name Avalon Deleware Unit #238													
Location UL-K, Sec. 30, T20S, R28E													
Project Reference 190037													
EPI Sampler Name Kirt Tyree													

LAB I.D.	SAMPLE I.D.	MATRIX				PRESERV.			SAMPLING		TIME	BTEX 8021B	TPH 8015M	CHLORIDES (C)	SULFATES (SO ₄)	PH	TCLP	OTHER >>>	PAH	
		GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER										DATE
419378-1	1 BH#3 - 1 (8')	G	1											X						
-2	2 BH#3 - 3 (15')	G	1											X						
-3	3 BH#3 - 5 (25')	G	1											X						
-4	4 BH#3 - 7 (35')	G	1											X						
-5	5 BH#3 - 9 (45')	G	1											X						
-6	6 BH#3 - 11 (55')	G	1											X						
-7	7 SB#3 - 13 (62')	G	1											X						
-8																				
9																				
10																				

Sampler Relinquished: <i>[Signature]</i>	3/4/2010	Received By: <i>[Signature]</i>
	Time 9:00	
Relinquished by:	3/4/2010	Received By: (lab staff)
	Time 3:40	<i>[Signature]</i>
Delivered by:	Sample Cool & Intact	Checked By:
	Yes No	<i>[Signature]</i>

E-mail results to: dtduncan@envplus.net

#26

August 27, 2010

David P. Duncan

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: AVALON DELEWARE UNIT #238

Enclosed are the results of analyses for samples received by the laboratory on 08/25/10 11:25.

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.

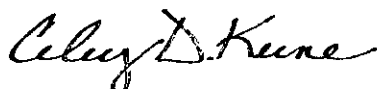
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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: 08/25/2010
Reported: 08/27/2010
Project Name: AVALON DELEWARE UNIT #238
Project Number: 190037
Project Location: UL-K, SEC 30, T20S, R28E

Sampling Date: 08/24/2010
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BH #4 - 1 (10') (H020716-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	08/26/2010	ND	432	108	400	0.00	

Sample ID: BH #4 - 2 (15') (H020716-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7000	16.0	08/26/2010	ND	432	108	400	0.00	

Sample ID: BH #4 - 3 (20') (H020716-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6880	16.0	08/26/2010	ND	432	108	400	0.00	

Sample ID: BH #4 - 4 (25') (H020716-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	08/26/2010	ND	432	108	400	0.00	

Sample ID: BH #4 - 5 (30') (H020716-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7100	16.0	08/26/2010	ND	432	108	400	0.00	

Cardinal Laboratories

* = Accredited Analyte

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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: 08/25/2010
Reported: 08/27/2010
Project Name: AVALON DELEWARE UNIT #238
Project Number: 190037
Project Location: UL-K, SEC 30, T20S, R28E

Sampling Date: 08/24/2010
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BH #4 - 6 (40') (H020716-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8560	16.0	08/26/2010	ND	432	108	400	0.00	

Sample ID: BH #4 - 7 (50') (H020716-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7760	16.0	08/26/2010	ND	432	108	400	0.00	

Sample ID: BH #4 - 8 (60') (H020716-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5840	16.0	08/26/2010	ND	432	108	400	0.00		

Sample ID: BH #4 - 9 (70') (H020716-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	08/26/2010	ND	432	108	400	0.00	

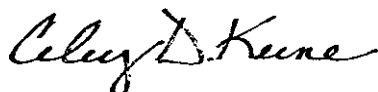
Sample ID: BH #4 - 10 (80') (H020716-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	08/26/2010	ND	432	108	400	0.00		

Cardinal Laboratories

*=Accredited Analyte

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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: 08/25/2010
 Reported: 08/27/2010
 Project Name: AVALON DELEWARE UNIT #238
 Project Number: 190037
 Project Location: UL-K, SEC 30, T20S, R28E

 Sampling Date: 08/24/2010
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BH #4 - 11 (90') (H020716-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	08/26/2010	ND	432	108	400	0.00		

Sample ID: BH #4 - 12 (100') (H020716-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/26/2010	ND	432	108	400	0.00	

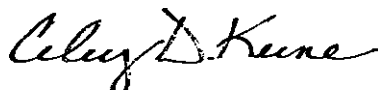
Sample ID: BH #4 - 13 (110') (H020716-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	08/26/2010	ND	432	108	400	0.00		

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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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Celestine D. Keene, Lab Director/Quality Manager

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:

Company Name Environmental Plus, Inc.		Remit Invoice 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 Avalon Deleware Unit #238																								
Location UL-K, Sec. 30, T20S, R28E																								
Project Reference 190037																								
EPI Sampler Name Kirt Tyree																								
Attn: David P. Duncan P.O. Box 1558 Eunice, NM 88231																								
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												
H20716-1	1 BH #4 - 1 (10')	G 1																						
2	2 BH #4 - 2 (15')	G 1																						
3	3 BH #4 - 3 (20')	G 1																						
4	4 BH #4 - 4 (25')	G 1																						
5	5 BH #4 - 5 (30')	G 1																						
6	6 BH #4 - 6 (40')	G 1																						
7	7 BH #4 - 7 (50')	G 1																						
8	8 BH #4 - 8 (60')	G 1																						
9	9 BH #4 - 9 (70')	G 1																						
10	10 BH #4 - 10 (80')	G 1																						

E-mail results to: dduncanepi@gmail.com

Received By:

08/25/10

Time

PM

Received By: (lab staff)

08/25/10

Time

11:25

Checked By:

JH

Sample OK & Intact

Yes

No

Delivered by:

Kirt Tyree

Relinquished by:

Kirt Tyree

Relinquished by:

Kirt Tyree

Relinquished by:

Kirt Tyree

Relinquished by:

Kirt Tyree

Environmental Plus, Inc.

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

Chain of Custody Form

LAB:

Company Name Environmental Plus, Inc.		Remit Invoice 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 Avalon Deleware Unit #238																							
Location UL-K, Sec. 30, T20S, R28E																							
Project Reference 190037																							
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 VV	PAH		
			GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE											
H20716-11	SB #4 - 11 (90')	G 1			X																		
H20716-12	SB #4 - 12 (100')	G 1			X																		
H20716-13	SB #4 - 13 (110')	G 1			X																		
14																							
15																							
16																							
17																							
18																							
19																							
20																							

Sampler Relinquished:		Received By:		E-mail results to: labresults@epiplus.com	
Kirt Tyree		Kirt Tyree			
Relinquished by:		Received By (lab staff):			
Kirt Tyree		Kirt Tyree			
Delivered by:		Sample Cool & Intact			
		Yes		No	
		Yes		No	

#26

August 31, 2011

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

RE: AVALON DELEWARE UNIT #238

Enclosed are the results of analyses for samples received by the laboratory on 08/31/11 8:12.

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: 08/31/2011
 Reported: 08/31/2011
 Project Name: AVALON DELEWARE UNIT #238
 Project Number: 190037
 Project Location: UL-K, SEC 30, T20S, R28E

 Sampling Date: 08/23/2011
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP-3A (3') (H101849-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/31/2011	ND	432	108	400	0.00	

Sample ID: SP-4A (3') (H101849-02)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/31/2011	ND	432	108	400	0.00		

Sample ID: SP-6B (3') (H101849-03)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/31/2011	ND	432	108	400	0.00		

Sample ID: SP-11 (3') (H101849-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/31/2011	ND	432	108	400	0.00		

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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: 08/31/2011
 Reported: 08/31/2011
 Project Name: AVALON DELEWARE UNIT #238
 Project Number: 190037
 Project Location: UL-K, SEC 30, T20S, R28E

 Sampling Date: 08/26/2011
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP-12 (3') (H101849-05)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/31/2011	ND	432	108	400	0.00		

Sample ID: SP-2B (3') (H101849-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/31/2011	ND	432	108	400	0.00	

Sample ID: SP-1C (3') (H101849-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/31/2011	ND	432	108	400	0.00	

Sample ID: SP-8C (3') (H101849-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/31/2011	ND	432	108	400	0.00	

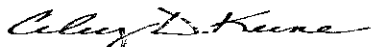
Sample ID: SP-10A (3') (H101849-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/31/2011	ND	432	108	400	0.00	

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* = Accredited Analyte

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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: 08/31/2011
 Reported: 08/31/2011
 Project Name: AVALON DELEWARE UNIT #238
 Project Number: 190037
 Project Location: UL-K, SEC 30, T20S, R28E

 Sampling Date: 08/30/2011
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP-13 (3') (H101849-10)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/31/2011	ND	432	108	400	0.00	

Sample ID: SP-14 (3') (H101849-11)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/31/2011	ND	432	108	400	0.00	

Sample ID: SP-15 (3') (H101849-12)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/31/2011	ND	432	108	400	0.00	

Sample ID: SP-5D (3') (H101849-13)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/31/2011	ND	432	108	400	0.00	

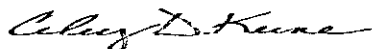
Sample ID: SP-7D (3') (H101849-14)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/31/2011	ND	432	108	400	0.00	

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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: 08/31/2011
Reported: 08/31/2011
Project Name: AVALON DELEWARE UNIT #238
Project Number: 190037
Project Location: UL-K, SEC 30, T20S, R28E

Sampling Date: 08/30/2011
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

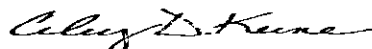
Sample ID: SP-9B (3') (H101849-15)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/31/2011	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

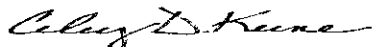
Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

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: 11111111

Company Name Environmental Plus, Inc.		Remit Invoice 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 Production																																		
Facility Name Avalon Deleware Unit #238																																		
Location UL-K, Sec. 30, T20S, R28E																																		
Project Reference 190037																																		
EPI Sampler Name Danny Deaton																																		
Attn: David P. Duncan P.O. Box 1558 Eunice, NM 88231																																		
LAB I.D.	SAMPLE I.D.	# CONTAINERS		MATRIX						PRESERV.		SAMPLING		TIME		DATE		TPH 8015M		CHLORIDES (Cl)		SULFATES (SO ₄)		PH		TCLP		OTHER >>>		PAH				
1	SP-3A (3')	G 1		GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER																						
2	SP-4A (3')	G 1																																
3	SP-6B (3')	G 1																																
4	SP-11 (3')	G 1																																
5	SP-12 (3')	G 1																																
6	SP-2B (3')	G 1																																
7	SP-1C (3')	G 1																																
8	SP-8C (3')	G 1																																
9	SP-10A (3')	G 1																																
10	SP-13 (3')	G 1																																

Sampler Relinquished:	8/31/2011	Received By:	8/31/2011	Received By: (lab staff)
Relinquished by:	5:15 AM	Relinquished by:	8/31/2011	Relinquished by:
Delivered by:	14°C	Sample Cool & Intact	Yes	No
		Collected By:		

E-mail results to: adam@epiplus.com

#26

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: 1558

Company Name Environmental Plus, Inc.		Remit Invoice To:		ANALYSIS REQUEST									
EPI Project Manager David P. Duncan		Attn: David P. Duncan											
Mailing Address P.O. BOX 1558		P.O. Box 1558											
City, State, Zip Eunice New Mexico 88231		Eunice, NM 88231											
EPI Phone# / Fax# 575-394-3481 / 575-394-2601													
Client Company ExxonMobil Production													
Facility Name Avalon Deleware Unit #238													
Location UL-K, Sec. 30, T20S, R28E													
Project Reference 190037													
EPI Sampler Name Danny Deaton													

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING		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							
11	SP-14 (3')	G 1				X							X							
12	SP-15 (3')	G 1				X							X							
13	SP-5D (3')	G 1				X							X							
14	SP-7D (3')	G 1				X							X							
15	SP-9B (3')	G 1				X							X							
16																				
17																				
18																				
19																				
20																				

Sampler Relinquished: <i>Danny Deaton</i>	8/31/2011	Received By: <i>David Duncan</i>
	5:15 AM	Relinquished By: (lab staff)
Relinquished by: <i>D. Duncan</i>	8/31/2011	Received By: <i>David Duncan</i>
	Time: 5:12	Checked By: <i>gth</i>
Delivered by:	Sample Sealed & Intact	
	Yes	No
	142	

E-mail results to: dtuncanep@gmail.com

#26

**ATTACHMENT III
SOIL BORING LOGS**



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) AVALON DELAWARE UNIT #238 SB-1				OSE FILE NUMBER(S)			
	WELL OWNER NAME(S) MOBIL/EXXON				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS				CITY MIDLAND		STATE TX	
	WELL LOCATION (FROM GPS)		DEGREES 32	MINUTES 32	SECONDS 40.00 N	* ACCURACY REQUIRED ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
LONGITUDE 104		13		16.00 W				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS FROM HOBBS GO W ON 62/180, TURN R ON THE CALRLSBAD RELIEF RD & TURN R ON LAKE AVALON 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"/> EAST <input type="checkbox"/> WEST	
	SUBDIVISION NAME				LOT NUMBER	BLOCK NUMBER	UNIT/TRACT	
	HYDROGRAPHIC SURVEY				MAP NUMBER		TRACT NUMBER	
3. DRILLING INFORMATION	LICENSE NUMBER WD1478		NAME OF LICENSED DRILLER EDWARD BRYAN			NAME OF WELL DRILLING COMPANY STRAUB CORPORATION		
	DRILLING STARTED 8-13-09		DRILLING ENDED 8-13-09		DEPTH OF COMPLETED WELL (FT) 0	BORE HOLE DEPTH (FT) 70'	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) 5	CASING MATERIAL N/A	CONNECTION TYPE (CASING) N/A	INSIDE DIA. CASING (IN) N/A	CASING WALL THICKNESS (IN) N/A	SLOT SIZE (IN) N/A
	FROM 0	TO 70						
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

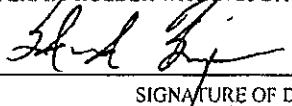
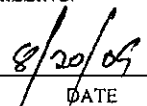
LOCATION

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	70				

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	3	3	BROWN FINE SAND - CALICHE	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
	3	41	38	TAN FINE SAND - SANDSTONE - CALICHE	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
	41	53	12	TAN SANDSTONE (MED) DENSE - CALICHE	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
	53	59	6	GREENISH - TAN CLAY	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
	59	70	11	RED SILTY CLAY & RED VERY FINE SAND	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
	TD	70			<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	
					<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	 _____ DATE



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) ADU # 238 BG2- (GS)				OSE FILE NUMBER(S)			
	WELL OWNER NAME(S) EXXON/MOBIL				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 503 S MARIENFELD, ST				CITY MIDLAND		STATE TX	ZIP 79701
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 32	SECONDS 40.00 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS FROM HWY 206 GO E FOR .5 MILES TURN R .1TH MI TURN R TO SITE.								
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"/> EAST <input type="checkbox"/> WEST	
	SUBDIVISION NAME				LOT NUMBER	BLOCK NUMBER	UNIT/TRACT	
	HYDROGRAPHIC SURVEY				MAP NUMBER		TRACT NUMBER	
3. DRILLING INFORMATION	LICENSE NUMBER WD1478		NAME OF LICENSED DRILLER EDWARD BRYAN			NAME OF WELL DRILLING COMPANY STRAUB CORPORATION		
	DRILLING STARTED 6/14/10		DRILLING ENDED 6/14/10		DEPTH OF COMPLETED WELL (FT) 0	BORE HOLE DEPTH (FT) 160	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) FROM TO		BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
	0 160		5	N/A	N/A	N/A	N/A	N/A
4. WATER BEARING STRATA	DEPTH (FT) FROM TO		THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)				YIELD (GPM)
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	160	5	40 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	2	2	BROWN FINE SAND - WITH CLAY	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	2	21	19	TAN FINE SAND - SANDSTONE - CALICHE	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	21	33	12	TAN FINE SAND - SANDSTONE	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	33	39	6	TAN FINE SAND - MED SANDTONE	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	39	42	3	(DENSE) SANDSTONE - TAN FINE SAND	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	42	60	18	(DENSE) SANDSTONE - CALICHE	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	60	64	4	RED SILTY CLAY - SILTY SAND	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	64	65	1	TAN SILTY CLAY	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	65	78	13	RED SILTY CLAY - RED SILTY SAND	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	78	94	16	TAN SILTY SAND - TAN SILTY CLAY	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	94	138	44	TAN SILTY SAND - TAN SILTY STONE	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	138	140	2	RED SILTY CLAY (DRY)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	140	142	2	TAN SILTY SAND	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	142	144	2	TAN SILTY SAND - SILTY CLAY	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	144	148	4	TAN SILTY SAND - SILT STONE	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	148	150	2	RED FINE SAND - SILTY CLAY WITH GYPSUM	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
150	TD160	10	TAN SILTY SAND	<input type="checkbox"/> YES <input checked="" 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	6/22/10 DATE

FOR USE INTERNAL USE

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

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WELL RECORD & LOG

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1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) AVALON DELAWARE UNIT #238 SB-2				OSE FILE NUMBER(S)			
	WELL OWNER NAME(S) MOBIL/EXXON				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS				CITY MIDLAND		STATE TX	
					ZIP			
2. OPTIONAL	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 32	SECONDS 40.00	N	* ACCURACY REQUIRED, ONE TENTH OF A SECOND * DATUM REQUIRED, WGS 84		
		LONGITUDE 104	13	16.00	W			
	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS FROM HOBBS GO W ON 62/180, TURN R ON THE CALRLSBAD RELIEF RD & TURN R ON LAKE AVALON RD.							
	(2.5 ACRE) $\frac{1}{4}$		(10 ACRE) $\frac{1}{4}$	(40 ACRE) $\frac{1}{4}$	(160 ACRE) $\frac{1}{4}$	SECTION	TOWNSHIP <input type="checkbox"/> NORTH <input type="checkbox"/> SOUTH	RANGE <input type="checkbox"/> EAST <input type="checkbox"/> WEST
SUBDIVISION NAME					LOT NUMBER	BLOCK NUMBER	UNIT/TRACT	
HYDROGRAPHIC SURVEY						MAP NUMBER	TRACT NUMBER	
3. DRILLING INFORMATION	LICENSE NUMBER WD1478		NAME OF LICENSED DRILLER EDWARD BRYAN			NAME OF WELL DRILLING COMPANY STRAUB CORPORATION		
	DRILLING STARTED 8-13-09		DRILLING ENDED 8-13-09		DEPTH OF COMPLETED WELL (FT) 0	BORE HOLE DEPTH (FT) 60'	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) 5	CASING MATERIAL N/A	CONNECTION TYPE (CASING) N/A	INSIDE DIA. CASING (IN) N/A	CASING WALL THICKNESS (IN) N/A	SLOT SIZE (IN) N/A
	FROM 0	TO 60						
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	5	.5 BAGS OF CEMENT		TOPLOAD
		2	60	5	13 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			<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
	0	3	3	BROWN FINE SAND - CALICHE	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
	3	20	17	TAN FINE SAND - W/CLAY	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
	20	52	32	TAN FINE SAND - SANDSTONE	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
	52	60	8	TAN FINE SAND	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
	TD	60			<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	
					<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: <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;"> SIGNATURE OF DRILLER </div> <div style="text-align: center;"> DATE </div> </div>						

FOR USE INTERNAL USE

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

FILE NUMBER	POD NUMBER	TRN NUMBER
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WELL RECORD & LOG

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1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) AVALON DELAWARE UNIT #238 SB-3				OSE FILE NUMBER(S)			
	WELL OWNER NAME(S) MOBIL/EXXON				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS				CITY MIDLAND		STATE TX	
	WELL LOCATION (FROM GPS)		DEGREES 32	MINUTES 32	SECONDS 40.00 N	* ACCURACY REQUIRED ONE TENTH OF A SECOND * DATUM REQUIRED WGS 84		
LONGITUDE 104		13		16.00 W				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS FROM HOBBS GO W ON 62/180, TURN R ON THE CALRLSBAD RELIEF RD & TURN R ON LAKE AVALON 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"/> EAST <input type="checkbox"/> WEST	
	SUBDIVISION NAME				LOT NUMBER	BLOCK NUMBER	UNIT/TRACT	
	HYDROGRAPHIC SURVEY				MAP NUMBER		TRACT NUMBER	
3. DRILLING INFORMATION	LICENSE NUMBER WD1478		NAME OF LICENSED DRILLER EDWARD BRYAN			NAME OF WELL DRILLING COMPANY STRAUB CORPORATION		
	DRILLING STARTED 8-13-09		DRILLING ENDED 8-13-09		DEPTH OF COMPLETED WELL (FT) 0	BORE HOLE DEPTH (FT) 45	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) 5	CASING MATERIAL N/A	CONNECTION TYPE (CASING) N/A	INSIDE DIA. CASING (IN) N/A	CASING WALL THICKNESS (IN) N/A	SLOT SIZE (IN) N/A
	FROM 0	TO 45						
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)

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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	45				

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	3	3	BROWN FINE SAND - CALICHE	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	3	13	10	TAN FINE SAND - W/CLAY	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	13	22	9	TAN FINE SAND - SANDSTONE	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	22	45	23	TAN FINE SAND - SANDSTONE- CALICHE	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	TD	45			<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
					<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	8/20/09 DATE



WELL RECORD & LOG

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1. GENERAL AND WELL LOCATION:	POD NUMBER (WELL NUMBER) AVALON DELAWARE UNIT 238 BH-4				OSE FILE NUMBER(S)			
	WELL OWNER NAME(S) NEW MEXICO STATE LAND OFFICE				PHONE (OPTIONAL) 685-9020			
	WELL OWNER MAILING ADDRESS 310 OLD SANTA FE TRAIL				CITY SANTA FE		STATE NM	ZIP 87504
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 32	SECONDS 41.00 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS 5 MI NORTH ON CO RD 206 CARLSBAD NM.								
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"/> EAST <input type="checkbox"/> WEST	
	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 3-3-10		DRILLING ENDED 3-3-10		DEPTH OF COMPLETED WELL (FT) 0	BORE HOLE DEPTH (FT) 62	DEPTH WATER FIRST ENCOUNTERED (FT)	
	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) FROM TO		BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
	0 62		6	N/A	N/A	N/A	N/A	N/A
4. WATER BEARING STRATA	DEPTH (FT) FROM TO		THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)				YIELD (GPM)
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

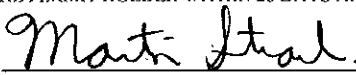
LOCATION

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				
		62	2				
	2	0	6	1 BAGS OF CEMENT		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	9	9	CALICHE & TAN SILTY SAND	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
	9	33	24	TAN PINK SILTY SAND & SANDSTONE	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
	33	56	23	TAN RED SILTY SAND & GYPSUM LAYERS	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
	56	59	3	TAN FED SILTY SAND & GYPSUM LAYERS	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
	59	62	3	TAN RED SILTY SAND & SANDSTONE LAYERS	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
	TD	62			<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	
					<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	3-24-10 DATE

FOR OSE INTERNAL USE

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

FILE NUMBER

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LOCATION

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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) ADU # 238 SB-4				OSE FILE NUMBER(S)			
	WELL OWNER NAME(S) EXXON/MOBIL				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 503 S MARIENFELD, ST				CITY MIDLAND		STATE TX	ZIP 79701
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 32	SECONDS 41.00 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS FROM HWY 206 GO E FOR .5 MILES TURN R .1TH MI TURN R TO SITE. EDDY COUNTY								
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"/> EAST <input type="checkbox"/> WEST	
	SUBDIVISION NAME				LOT NUMBER	BLOCK NUMBER	UNIT/TRACT	
	HYDROGRAPHIC SURVEY				MAP NUMBER		TRACT NUMBER	
3. DRILLING INFORMATION	LICENSE NUMBER WD1478		NAME OF LICENSED DRILLER EDWARD BRYAN			NAME OF WELL DRILLING COMPANY STRAUB CORPORATION		
	DRILLING STARTED 6/24/10		DRILLING ENDED 6/24/10		DEPTH OF COMPLETED WELL (FT) 0	BORE HOLE DEPTH (FT) 110	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) FROM TO		BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
	0 110		5	N/A	N/A	N/A	N/A	N/A
4. WATER BEARING STRATA	DEPTH (FT) FROM TO		THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)				YIELD (GPM)
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	110	5	23 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	3	3	TAN FINE SAND - SANDSTONE	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	3	10	7	TAN FINE SAND - GRAVEL SANDSTONE	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	10	55	45	TAN FINE SAND - SANDSTONE	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	55	63	8	TAN FINE SAND - MED SANDTONE	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	63	67	4	GRAY CEMENTED SANDSTONE (DENSE)	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	67	72	5	GOLD CEMENTED SANDSTONE	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	72	73	1	GRAY CLAY SILTY	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	73	78	5	TAN CEMENTED SANDSTONE (DENSE)	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	78	94	16	TAN (DENSE) SANDSTONE - TAN FINE SAND	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	94	110	16	CALCRETE	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	TD	110			<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	9/3/10 DATE

FOR USE INTERNAL USE.

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

FILE NUMBER

POD NUMBER

TRN NUMBER

LOCATION

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ATTACHMENT IV

**COPY OF INITIAL NMOCD FORM C-141
FINAL NMOCD FORM C-141**

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

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 Avalon Delaware Unit #238.	Facility Type Injection line

Surface Owner State Of New Mexico	Mineral Owner	Lease No. API#3001528659
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LOCATION OF RELEASE

Unit Letter K	Section 30	Township 20S	Range 28E	Feet from the 2301	South Line	Feet from the 1485	West Line	County Eddy
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Latitude 32 32.641 Longitude 104 13.243

NATURE OF RELEASE

Type of Release :Produced Water	Volume of Release 83 bbls of produced water	Volume 0 bbls
Source of Release 3" Fiberglass injection line	Date and Hour of Occurrence	Date and Hour of Discovery 7/28/09 12:00 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD Artesia Office Answering Machine-Mike Bratcher	
By Whom? Shelby Pennington	Date and Hour 7/28/09 4:15	
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.* No watercourse in area


Describe Cause of Problem and Remedial Action Taken.*

3" Fiberglass line developed leak. Leak was isolated and repaired. Emergency crew was sent to site to begin remediation

Describe Area Affected and Cleanup Action Taken.*

Area covered approx. 7,000 square foot. Emergency crew was sent to site to begin excavation of highly saturated soil. Site will be delineated and a remediation plan will be submitted for approval to the NMOCD Artesia office.

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: 		OIL CONSERVATION DIVISION	
Printed Name: Kevin M. Dillow		Approved by District Supervisor:	
Title: Compliance Supervisor		Approval Date:	Expiration Date:
E-mail Address: Kevin.m.dillow@exxonmobil.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: Phone: 281-654-1557			

* Attach Additional Sheets If Necessary

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
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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: Lisa Andrews
Address: P.O. Box 4358, Houston, TX. 77210	Telephone No.: (281) 654-1125
Facility Name: Avalon Delaware Unit #238	Facility Type: Fiberglass Injection Line

Surface Owner: State of New Mexico	Mineral Owner: State of New Mexico	Lease No. API # 30-015-28659
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LOCATION OF RELEASE

Unit Letter K	Section 30	Township 20S	Range 28E	Feet from the 2301	South Line	Feet from the 1485	West Line	County Eddy
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Latitude: N32° 32' 38.46" **Longitude:** W103° 13' 14.58"

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 83-Bbls of produced water	Volume Recovered: 0-Bbls.
Source of Release: 3" Fiberglass Injection Line	Date and Hour of Occurrence:	Date and Hour of Discovery: 7/28/09 @ 12:00 P.M.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD Office Answering Machine-Mike Bratcher	
By Whom? Shelby Pennington	Date and Hour: 7/28/09 @ 4:15	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse: N/A	

If a Watercourse was Impacted, Describe Fully.* No watercourse in area

Depth to Groundwater: > 160- feet below ground surface (bgs)

Describe Cause of Problem and Remedial Action Taken.* 3" Fiberglass line developed leak. Leak was isolated and repaired. Emergency crew was sent to site to begin remediation

Describe Area Affected and Cleanup Action Taken.* From 7-30-09 thru 8-10-09 ±920-c.y. of impacted material were excavated and transported to Sundance Services for disposal or stockpiled on plastic sheets EPI and Straub Corp. advanced several soil and background borings (SB and BG) in the release area. Namely a.) 8-13-09 three (3) soil borings (SB-1, SB-2 and BG-1) to determine depth of impacted material, b.) On 3-03-10 advanced SB-3 to a depth of 63-feet from bottom of excavation to determine depth of impacted material, c.) On 6-14-10 advanced BG-2 to a depth of 160-feet bgs to determine depth of water with negative results and d.) On 8-24-10 advanced SB-4 near release point to 110-feet bgs to determine depth of impacted material. From 8-22-11 thru 9-01-11, ±2,600 c.y. of impacted material were excavated and transported to CRI for disposal. From 9-02-11 thru 9-06-11 placed a minimum one (1) foot layer of clean top soil in bottom of excavation for cushion pad. On 9-07-11 placed ±12,800 s.f. of 40-mil polyethylene liner over entire bottom of excavation. From 9-02-11 thru 9-19-11 backfilled excavation with ±4,000 c.y. of clean top soil. Disturbed areas were contoured to prevent wind/water erosion, pooling of water and promote natural drainage. Lease road was repaired using ±300-c.y. of caliche from NMSLO Pit #514. Recommend postponing deep drill seeding of areas until ground and weather conditions promote growth

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:		OIL CONSERVATION DIVISION	
Printed Name: Jennifer W. Baird		Approved by Environmental Engineer:	
Title: Regulatory Compliance Supervisor		Approval Date:	Expiration Date:
E-mail Address: Jennifer.w.baird@exxonmobil.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10-26-11 Phone: (281) 654-6119			

* Attach Additional Sheets If Necessary